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EXTRACT

From an Act prescribing Rules for the Government of the State Library, passed March 8th, 1861.

SECTION 11. The Librarian shall cause to be kept a register of all books issued and returned; and all books taken by the members of the Legislature, or its officers, shall be returned at the close of the session. If any person injure or fail to return any book taken from the Library, he shall forfeit and pay to the Librarian, for the benefit of the Library, three times the value thereof; and before the Controller shall issue his warrant in favor of any member or officer of the Legislature, or of this State, for his per diem, allowance, or salary, he shall be satisfied that such member or officer has returned all books taken out of the Library by him, and has settled all accounts for injuring such books or otherwise.

SEC. 15. Books may be taken from the Library by the members of the Legislature and its officers during the session of the same, and at any time by the Governor and the officers of the Executive Department of this State who are required to keep their offices at the seat of government, the Justices of the Supreme Court, the Attorney-General, and the Trustees of the Library.

O. M. CLAYES, STATE PRINTER.

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Mining and Scientific Press.

A Journal of Useful Arts, Science, and Mining and Mechanical Progress.

DEWEY & CO., PUBLISHERS And Patent Solicitors.

SAN FRANCISCO, SATURDAY, JULY 8, 1865.

VOLUME XI. Number 1.

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New Volume

—OF THE—

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THE ELEVENTH VOLUME

Of the Mining and Scientific Press commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this journal may be anticipated by its numerous and rapidly increasing readers.

We shall continue to devote a large space in our columns to the various and best methods of treating ores and saving gold and other precious metals in every form, furnishing valuable hints to millmen, prospectors, oil-workers and miners generally, not to be found in any other publication.

New machinery, latest inventions and discoveries, and all matters pertaining to the mechanical, manufacturing and industrial resources of the Pacific States, will receive careful attention.

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Friends pleased with our efforts in the publication of the Press can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and News-dealers, acting as our agents, will receive liberal commissions.

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C. W. M. SMITH.....W. D. EWER ....A. T. DEWEY.

The Fourth in Washoe.—The denizens of Virginia City made extensive preparations for a big bonfire on the top of Mount Davidson on the evening of the Fourth. Some thirty gallons of tar, two or three tar barrels and a lot of wood were hauled up to the summit on Monday; also a flag-staff sixty-two feet in length. The task of getting them up there must have been up-hill work; but the splendid appearance of the national emblem, lit up by the bonfire at that sightly point, must have been ample remuneration for the trouble.

Our Rivers.—It is stated that the Yuba and Feather rivers are fast settling down to low water mark.

ANOTHER GLASS FACTORY.

We believe it is known to but few of our citizens that we have in full operation in this city, a second glass factory, only recently established, yet apparently doing a very good business, and in a fair way of becoming not only a permanent but a paying institution. On the rear portion of the open lot on the southeast corner of Third and Townsend streets, may be seen a wooden building, with very little pretention to architectural merit, from the central portion of whose roof springs a tall iron smoke-stack or chimney. This unpretentious building has recently been converted into a glass factory by Messrs. Newman & Brannan, which will hereafter be known as the "San Francisco Glass Works." It started blowing on the 22d of May last, with a five-pot furnace. Its proprietors are thoroughly skilled in their business, and have commenced operations in a small, quiet manner, with the intention of gradually increasing their facilities for work as circumstances may seem to require. One of the partners is from Pittsburg, Penasylvania, which is the chief point of glass manufacture in America; the other was educated to his business at the New England Glass Works, in Cambridge, Mass. Their head workman is also from Cambridge, and is one of the best glass-blowers in the country.

Nothing but white ware is turned out at this establishment, and the quality of the articles submitted to our inspection will compare favorably with any thing of the kind from the East. At the time of our visit they were at work upon prescription bottles and lamp chimneys. Their speciality of manufacture will be druggists' and chemists' ware, philosophical instruments, lamp chimneys, etc. Particular attention will be paid to private moulds. Orders for any kind or quantity of goods will be taken on the premises, and the goods manufactured and delivered at the shortest notice. Druggists and others will do well to give them a call, and, by favoring home productions, aid in building up this new branch of enterprise in our midst. The pots of this furnace are so set as to be closed from the direct action of the heat, and open only to the operator from the outside. By this arrangement the metal is kept free from the dust and dirt of the furnace, and consequently the work turned out is much clearer and more free from impurities.

Rain.—The Virginia City papers chronicle the occurrence of a regular rain storm in that vicinity on the afternoon of the 3d instant. The fall was so abundant that streams of water ran down the streets. It will be recollected that the weather in this city on that day was such as in any other locality would indicate immediate and heavy rains. As it was, we got a few scattering drops, but the air was sufficiently filled with moisture to form one of the most magnificent rainbows ever seen in San Francisco.

Fluxes.—The number which we give to-day on the "Problem of Gold and Silver Extraction" is devoted to a brief discussion of the theory and philosophy of fluxes and fluxing. It will be found very interesting and instructive to all interested in metallurgical operations.

MINING OPERATIONS IN LOWER CALIFORNIA.

We had the pleasure of a call last week from Mr. Henry S. Brooks, general business agent of the Triunfo Mining Co., located in the San Antonio district, Lower California. From him we learn that mining operations in that district continue very much as heretofore; the political troubles and interruptions of business on the Eastern side of the gulf have not and probably will not reach the Peninsula. The governor of Lower California having neither men nor means to take any active part in the disturbances which are now distracting the nation, will continue to remain quietly at his post, and recognize any central power which may reach, with its agents, his distant and isolated province.

The Triunfo and the Maria are the only mines in the district which work their own ores; all the other mines are shipping. The Trifuno Company owns its own mill; the Maria, an adjoining claim, rents the Pichaco mill. Mr. Brooks emphatically condemns the working of mines in that district merely for obtaining ore for shipment. His reasons are stated in substance as follows: first no ore paying under $150 to the ton will pay for shipping. To obtain a ton of 1st class, or shipping ore, it is necessary to raise and sort ten tons. The expenses of shipment and reduction in Europe cannot fall short of $50 per ton, leaving $100 for interest on investment and cost of mining and raising ten tons of mineral. The shipper gets an advance of about $60 per ton for his ores. In this operation the company throws aside nine tons of ore, worth about $40 to the ton—$360. This ore can be worked on the ground at an expense of $20 per ton, or $180 for the lot, which would leave a net profit of $180. This amount is therefore thrown away to realize less than $100 from the single ton of selected ore. Suppose the ore is all worked as it comes from the mine, we have—10 tons of ore worth $51 per ton=$510; cost of working, $20 per ton = $200, net profit, above cost of working, $310; or $210 more than can be realized from the shipping policy. These figures are based upon six months of actual working at the rate of 200 tons per month, of ore from the Triunfo and Maria. The Kohler Brothers, Franco American, Santa Gertrude and other mines on the same lead are considered equally as good as the Trifuno and Maria. All of these mines would undoubtedly pay well with mills. The process of working now employed there is to crush dry, roast, chloriuize with salt, work in barrels with iron to reduce the chloride to metal, and amalgamate.

Our informant expresses the opinion that the average of the ores on the Peninsula will equal that of any other locality on the Pacific Coast. The superintendents now in charge of the mines shipping ores are working under instructions from their principals, are thoroughly efficient and competent men, and are expected to ship ores by every steamer; but under the management above described nothing but failure can attend their most intelligent exertions. In order to initiate a plan for working the ores, it would not be necessary for each individual company to put up a mill; for with proper representation capital might readily be interested to put up one or more mills, sufficient to reduce all the ore that might be raised. Wood would soon become scarce, were a very general movement made for working the ores on the ground, although it is now selling for from $5 to $6 per cord. Salt is delivered at Vestana or La Paz for $9 per ton.

We understand that the course of Mr. Brooks, in the management of the affairs of the Triunfo Company, at the mine, was fully endorsed by the Trustees, at a regular meeting, and that he was unanimously returned to his post. He left on the last steamer.

Scientific Expedition.—The United States steamer Shubrick, Captain Scammon, sailed yesterday morning for the southern ports of this State, having on board Prof. Jackson, of Boston, Prof. Torrey, Chief Director of the United States Assay Office, New York, and the Hon. Levi Parsons, of this city. The object in view is to secure a scientific investigation into the oil regions of Southern California. The report of these gentlemen will be looked for with much interest, and will do much toward settling the uncertainty which now exists in the Atlantic States with regard to the character of the oil regions of California. This expedition is the same to which we alluded in our issue of the 17th ult. as then in contemplation.

J. Ross Browne has been talking to large and appreciative audiences at Reese River. We had hoped ere this to have given our readers some of his views with regard to the mines of that region. Mr. Browne is a man of unusual observation. It has been truly said of him that "he walks along the highway of life with his eyes wide open, seeing everything." We trust he will not forget to tell the readers of the Press something of what he has seen in the depths of the mines of Reese River.

A Bottomless Lake.—A lake has recently been discovered near the Eclipse claim, in the Excelsior district—the latest discovery among the tall peaks of the Sierra Nevada—which, although but 400 feet in length by 200 in breadth, has been sounded to the depth of 700 feet without finding any bottom. It probably occupies the crater of an extinguished volcano. A large number of quartz leads appear to radiate in every direction from this lake, as a center, and quite a mining camp is growing up there.

Petroleum Matters.—There is nothing particularly new with regard to petroleum matters the past week. The Del Norte took up several additional sets of tools on Thursday. Our readers will find a very interesting article in another column on "Oil Wells and Oil Well Boring at the East."

Steam Engines at Auction.—We would direct especial attention to the advertisement of machinery for sale at auction, on Wednesday, July 19th, at No. 39 Fremont street.

Christianity is the element in modern civilization that secures it against the vicissitudes of ancient civilization.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

The Problem of Gold and Silver Extraction—A General Review—No. XIII.

BY PROF. L. LANSZWEERT.

FLUXES.

Assuming the process of roasting to have been necessary, and to have been applied, and that a metallic substance still remains to be extraeted from the non-volatile residue, a process of fusion must be resorted to. It is called *smelting*. A slight ehemical consideration of the materials wherewith metals are ordinarily combined, will bring to mind the faet that some are really or praetieally infusible. But fusion, in certain eireumstances, the metallurgist must have. The theoretical ehoice was before him of ehoosing hetween the moist and eolvative, and the dry or igneous process of effeeting liquidity. He was driven by practical eonsiderations to accept the latter. Therefore fusibility is a eonsideration so indispensable to success in his future operations that he must have it. How, then, was he to solve the problem of effeetiug the fusibility of things which are hy their nature infusible? Chemistry renders the solution of this problem easy: there are many substances whieh, though infusible when heated by themselves, fuse readily enough when heated in combination. Hence arises the theory of *fluxes* and *fluxing;* these terms being respeetively applied to substanees which impart igneous fluidity when heated with other substances, and to the manner of using them. Silica or eilicie acid is an infusible body when heated alone; nevertheless it fuses wheu sufficiently heated in contact with potash, soda, or their respective carbonates, and less readily when heated in contact with alkaline earths. Hence if the metallurgic problem were to present itself, of extracting a metal by fire, from a mixture of the same with silica (chemically silieie aeid); potash or soda, or their respective carhonates would be had recourse to, in preference to all others, if eonsiderations of profit and loss did not intervene. The price of the alkalies and earbonates of alkalies does not admit of their common application to the purposes of a flux on the large metallurgic scale; wherefore the smelter, not being able to use the flux wbicb chemistry proclaims to be the best, contents himself with a substitute as near to the theoretie quality as may be practicable. Thus where alkalies or earbonates of alkalies would have been employed to facilitate igneous fusion in the laboratory and on the small scale—probably lime or carbonate of lime would be employed in the larger representation of the proeess as performed by the metallurgist.

Not only do the alkalies and their earhonates perform the functions of fluxes to silieie aein, but also to eeveral metallic oxyds, amongst which those of lead, copper and iron may be cited as familiar examples. Every person knows tbat flint glass, as it is ealled, eontains oxyd of lead; that black bottle glass contains oxyd of iron—eombinations which illustrate, perhaps, as well as any we eould adduee, the quality of the alkalies whieh imparts to them the power of a flux. When it is considered that nearly all the eolors which can be imparted to glass, nay, whieh *are* imparted to porcelain and enamel, are referable to eombinations of metallic oxyds with silieie acid, a still further notion will be eonveyed of the extensive range of combination whieh may be produced by silicie neid under the influenee of igneous fusion. Next, perhaps, to potash and soda, in respeet to its large range of ageney as an igneous flux, eomes borax.

Seldom is it that the assayer in his laboratory operations on mineral ores, by fire, dispenses with both alkalies and with borax; but here in this case, again, considerations of expense restriet the application of this material to the laboratory, and the smelter is obliged to eontent himself with fluxes mueh lower in the scale of ehemical power and efficiency. Perhaps, however, there may not be so many advantages lost from the non-employment of laboratory fluxes, on a large scale as is sometimes imagined. To adopt soda, or potash, or borax, though compatible with the economical arrangement of the laboratory chemist, who will not hesitate to ruin a crucible at each operation, might still accord very ill with the economy of furnace building. The alchemists tried to discover a fluid which should have the property of dissolving all things wherewitb it might come into contact. They neglected to reflect that a necessity would arise for a vessel to keep it in. It might be thus with metallurgists, on the large scale, if laboratory fluxes were cheap enough and plentiful enough to be adopted on the large scale.

Though the number of fluxes which the metallurgist has at his command, for large operations of smelting, be inconsiderable in comparison with those employed in laboratory operations, nevertheless the proeess of assaying is one so important to the metallurgist that every flux known to the chemist deserves his consideration. Under the head of assaying, therefore, to be adverted to hereafter, the chemical agents will be fully discussed.

The preliminary operation of dressing having been performed on a mineral, also the further operation of roasting; if necessary, the final operation of smelting naturally follows. After the general statement given of the nature and properties of fluxes, it will be seen that the operation of extracting a metal from a metallic ore, by smelting, consists in subjecting it to furnaee-heat in admixture with some flux, the object of the latter being twofold; primarily, to liquify and dissolve away refuse matters by themselves in fusion, and seeondarily, in some eases, to aid the decomposition, by the result of which the metal is evolved from its combinations. It remains now for the eompletion of our sketeh of the applianees of metallurgy, that we indicate the peculiarities of the different processes, and the appendages, by means of which those processes for the reduetion of silver ores are affeeted.

[To be Continued.]

[Written for the Mining and Scientific Press.]

A Trip to San Jose and Santa Clara.

Editors Press:—A few notes of a run down into the countios of Santa Clara and Santa Cruz, may not be uninteresting to your readers. Taking the early train from San Francisco, you soon shake off the dust of that famous city, and are out amongst the green fields, and before long, trees, those great rarities of your city, gladden your eyes; and to one who is so accustomed to being surrounded by trees and shrubbery, they were very welcome sights. Two hours of pleasant riding over one of the smoothest of railroads, with a gentlemanly conductor, brings you to the thriving place, at the terminus of the road, San Jose. One thing in regard to this road struck me very forcibly, for it reduced the plethora of my pocket considerably; it was the rate of fare, as compared with roads in the East. Two to three cents per mile is charged on them, while we pay on this road five cents, which must yield very handsome dividends to the stockholders. San Jose is a growing town, numbering about five thousand inhabitants. It is laid out very regularly, although being an old Spanish town, one would hardly expect to see the streets so regular. A few adobe houses still remain as landmarks of the past; most of them being situated on what is called the Plaza, though it is not deserving of that name, for it is merely a common. A number of new buildings have been erected lately, among which is a fine block of stone, the upper part of which is used by the Masons and Odd Fellows; also a new hotel, the Auzerais House, having all the modern improvements, is well kept, being a hotel where one truly feels at home. Education is not neglected in San Jose, for it boasts of good schools. The San Jose Institute and Commercial College and the Academy of Notre Dame are the principal ones. The Institute is a day and boarding school for males and females, and enjoys an excellent reputation at home and abroad. Mr. Gates, its founder and present director, is an old resident of San Jose, and ranks high among the pioneer teachers of our State. Prof. Owen is eminently successful and popular as a commercial instructor.

The Academy of Notre Dame held its annual commencement on Monday, June 26th, which we had the pleasure of witnessing. The exercises consisted of singing, performances on the piano, recitations and distribution of premiums. The young ladies in the several performances gave evidence of a thorough training. The Sisters are untiring in their endeavors to educate the pupils entrusted to their charge. In the evening we were present, by invitation, at the closing exercises of the Santa Clara College, situated in the town of that name, which is a delightful drive of half an hour from San Jose, through an avenue of trees, which is so closed at the top by the branches that the sun hardly reaches you. Santa Clara is a small town, supporting quite a number of manufactories, the principal hotel of which is the Cameron House, kept by Mr. Cameron, who is a host in himself. The Santa Clara College is a very large and thriving institution, the buildings and grounds being arranged in a superior manner. We were very much pleased with the exercises, which took place in the gymnasium of the institution, a room admirably adapted for such purposes. The course of study must be very thorough to allow the students to acquit themselves in the creditable manner that they did. Great care is taken to give their pupils a most thorough education, and one only wants to witness the evidence as shown at the Commencement to be convinced that they receive it.

TRIP TO THE NEW ALMADEN MINE.

Returning to San Jose, we rode over the most dusty road that was ever traveled, to New Almaden, the point at which the works of the Almaden Quicksilver Mining Company are located. None but those employed by the company are allowed to live there, so that gamblers and others of that class are not to be found there. The mine is situated about two and a half miles from the town, and is reached by a winding road up the mountain side, the view from which is very fine, looking through the valley for miles. Through the kindness of the officers of the company, we were permitted to visit the interior of the mine. Passing down the shaft in the bucket, down, down into the dark regions of the earth, the feeble light of the candle only making the darkness more complete, two hundred and fifty feet, we reached what is called the Big Flat; from thence we passed through the different portions of the mine, seeing some fine puddings of cinnabar, for it does not run in veins as silver and other ores, but is found in masses, which are called puddings. While we were below a blast was made, and as we were not informed, it was some time before we could proceed. In returning to daylight we used the ladders, and before we were half way up, we wished ourselves in the bucket, for we preferred steam to propel us instead of our legs and arms; but it was too late to turn back. The walk through mother earth was very interesting, and a visit to this mine will pay any one, provided he is a lover of nature in any form. There is quite a settlement on the top of the mountain, composed of the miners, most of them being Spanish.

Getting back to the town, we passed through the furnaces where the ore is reduced and the quicksilver obtained. Refreshed with a drink from the soda spring located on the company's grounds, we wended our way to the mine of the

MAROARITTA COPPER MINING COMPANY,

Situated about a mile from the hotel. Had a hard climb up the steep hill, being very tired with our tramp through the Almaden Mine; but the goal was at last reached. One of the miners took us down a shaft twenty-seven feet, where we saw ore which yields eighteen per cent. The vein looked very rich, and did they not obtain better beneath, it would almost pay to work this. There has been some seventy tons sold from this mine, which brought in San Francisco ninety odd dollars a ton. It was obtained at depths of twenty-seven and sixty feet. That taken at sixty feet was very rich and considered very fine. There is water in the shaft, which has stopped mining, but as soon as a tunnel, which they are making, strikes the shaft, the mine will be drained and they will then commence taking out ore again. From the indications this mine, if properly worked, must prove very valuable, and if copper exists here in such large quantities, it must be found elsewhere, and Santa Clara county may yet prove rich in minerals, which, with the agricultural and manufacturing interests, will make it very rich. Back to San Jose, we took the stage, at ten in the morning, for

SANTA CRUZ.

Reaching there about five, dusty and hungry, but feeling well paid, even under those circumstanees, for we had seen some grand scenery. We crossed the mountains, and in ascending and descending, the road winds around them, making frightful turns, in fact the road for miles is only composed of curves. It makes one's hair almost stand on end to look out of the coach windows, deep gorges, sometimes on both sides of us. Strange to say, but ten accidents have occurred on the road, and no one has been seriously injured. To have a little variety, we walked up a very steep hill, thus making it easier for the horses; but next time we travel in such warm weather, we shall keep our seats. Santa Cruz is not a very interesting town, and were it not for the sea bathing would possess no interest for the pleasure seeker; but there are many here now in search of pleasure and health. It has from fifteen hundred to two thousand inhabitants. Manufacturing is carried on quite extensively. Leather, powder and paper are among the many articles produced. We were much pleased with passing through the well conducted tannery of Birton & Jones. The paper mill, which we also had the pleasure of visiting, is situated in a picturesque spot on the San Lorenzo river, from which the power is obtained. At some points on this little stream, some very fine scenery is to be seen. Were it not for the dust, there would be some pleasure in riding around the country, for there are some delightful drives. Yet we say take the drives and let the consequences rest with the old Pacific. The beach is excellent for bathing, and after a bath in salt water one feels like a new being, and as though he could devour ten of the good dinners furnished at the San Lorenzo Exchange. A steamer makes weekly trips between here and San Francisco, and there is also a new line of sailing vessels plying between here and there. If there was a steamer which made a quick trip to the city, we should be tempted to take it on our return, but as it is, we shall have to brave the dust again.

Santa Cruz, June 30th, 1865. H.

The Deepest Gold Mine.—In an account of the quartz mines of Amador county, the Jackson *Ledger* remarks of a notable gold mine, at Sutter creek, as follows: "The Eureka and Badger lode is owned by Messrs. Hayward and Chamberlain. These gentlemen were interested in these claims as early as the winter of '53, and full owners in '57. It would be difficult to estimate the amount of quartz that has been taken from these mines or its value, but suffice it to say that the amounts of both have been eminently satisfactory, and that a million would not buy them. The main shaft is 960 feet in depth, the deepest in the State, so far as we know. The vein is what is supposed to be the great "mother lode," and appears to be in the extended system of quartz veins on the western slope of the Sierra Nevada what the Sacramento river is to its numerous tributaries. However that may be, its dimensions are Titanian, the size in the lowermost level ranging from twenty to forty feet. This is not only the deepest mining shaft in the State, but, as a gold mine, the deepest in the world. Does it not disprove the theory of geologists that the amount of gold decreases in exact rate with the depth? If not, it certainly proves that there are exceptions to the rule. Connected with this mine are two mills; one of forty stamps—water and steam power combined—and the other a water mill of twenty stamps. About seventy-five men are employed in mills and mine, and eighty tons of rock worked per day."

Careless Writers.—The report of Postmaster General Dennison shows an extraordinary amount of carelessness on the part of the letter-writing community. During the last year 3,508,025 dead letters have been received—over 3,000 a day. Many of these letters contained money, deeds, bills of exchange, drafts, checks, jewelry and other valuables. Some of them mis-directed, others not directed at all, others unstamped, and others partially directed. Thousands of dead letters were returned to the writers, but the great majority of them had to be destroyed. This statement ought to teach the public to be more careful in their correspondence, for the suffering caused by these lost letters is incalculable.

The Roll of Europe's Billows.—Nearly five thousand immigrants from Europe arrived at New York recently in one day. Six steamers brought four thousand and three ships carcoled over the Atlantic with the remainder. More than three thousand five hundred of these immigrants are women, and nine-tenths of the latter will be looking for situations as "the greatest plague in life," in somebody's kitchen before the week is out. About eleven hundred came from Continental Europe, and make very good "helps," with a little instruction.

Prof. Blot's cooking class at New York has grown from 30 to 70. He gives three-hour lessons, cooks all kinds of things before his pupils, and lets them taste and examine.

Ants.—A correspondent of the *Horticulturist* says it is only necessary to sprinkle some ground coffee on the ant-hills or on some places where the insects are frequently seen, and within fifteen minutes not one of them will be found. This is an old plan, but never fails.

Soda fountains have been introduced on the trains of the Little Miami Railroad. Something new.

John G James, who died recently at Doylestown, Pennsylvania, has left all his property, valued at $50,000, to the Sunday School Union.

Mechanical.

THE FOUNDRIES.

Last week we visited but few of the larger establishments, as we confess to having felt some curiosity as to what the smaller shops were doing; and for the better gratification of this feeling continued our observations almost entirely to them—the only exception being a short visit to the splendid and extensive establishment of H. J. Booth & Co., of the Union Works.

Passing down First street, our attention was attracted to a modest-looking establishment, at No. 9, which, though appearing very quiet on the outside, was a picture of thrift and industry within. This was the Idaho Machine Shop, lately opened by Mr. D. C. Hall, whom we found with his coat off and sleeves rolled up going into the work with a will. But the dress of the mechanic could not hide the marks of the true gentleman, which were visible in every word and action as he showed us his neat and orderly shop.

Another very interesting place which we visited was the Brass and Bell Foundry of Gallagher & Weed. Here, though there are but few *big things*, such as they make in the iron foundries, specimens of curious and beautiful workmanship abound on every hand, prominent among which we noticed a large steamboat bell, a counterpart of two manufactured for the steamer Washoe and of one now in use on the ocean steamer Pacific. The proprietors intend exhibiting this bell, with several others of the same kind, at the coming Fair of the Mechanics' Institute.—These bells will be of all sizes usually manufactured in this country, which vary from twenty-five inches diameter down to six, and of every character of tone and finish.

At John Loekhead's steam-engine works we were shown the drawings and patterns of several propellers, the principal one of which is the new screw propeller for the tug boat Rabbani, now taking in supplies at Clay street wharf for her voyage to the Columbia bar, where she is to be employed. This is the vessel whose speed on her trial trip, some weeks since, attracted so much attention. She ran out to the Farallones and back, and behaved throughout in the most satisfactory manner. Her propeller is eight feet four inches in diameter, with four blades, and is driven by a single inverted engine of 150-horse power and twenty-eight inches diameter of cylinder, with twenty-eight inches stroke, making, with sixty pounds of steam, seventy-five revolutions per minute, and propelling the vessel in smooth water at the rate of fourteen miles an hour. At the time of our visit there were three large hoisting engines in course of erection, for use in unloading ships at the wharves, and a small engine, of a peculiar pattern, which Mr. Loekhead expects to use in his shop to drive his machinery. It is a vertical, inverted engine, like those of his propellers, but differs in having the frame cast in one solid piece, making it much stronger and less liable to get out of order. Mr. L. thinks that when this style of engine comes to be known it will be preferred to all others, on account of its simplicity and compactness.

At the Union Foundry, Messrs. H. J. Booth & Co. have on hand a large amount of interesting work. Among the mining orders, we noticed two beautiful engines, nearly finished, which, we were told, were intended for the Idaho mine, Idaho Territory. One of these is an eight-inch cylinder, and is intended for hoisting, while the other, a fine twelve-inch with twenty-four inch stroke, will be employed for pumping the shaft. A ten-inch engine, twenty-inch stroke, with hoisting gear, has just been shipped to the Gold Tunnel Mining Company, Nevada City. A fourteen-inch engine, capable of driving forty stamps, with a ten-stamp mill, six amalgamating pans and two settlers, have just been completed for Mr. Hazeltine, Reese River. But the great attraction for the month in this establishment is the new railroad locomotive, the first ever built in California. Two of these, intended for the S. J. R. R. Co., were drawing rapidly toward completion, and begin to show signs of the immense strength and majestic beauty which are characteristic of great efforts in mechanical design. A third locomotive, precisely like the first two, and intended for the S. V. R. R. Co., is also progressing finely. A view of this splendid establishment, with its numerous shops crowded with immense machines carving and shaving the solid iron as though it were the softest wood, and its two hundred and fifty cheerful operatives, presents a scene calculated to inspire the mind of the beholder with elevated and expanded ideas of the great industrial resources of the Pacific coast.

Brick Making.—We some time since alluded to a new arrangement of permanent walls or kilns wherein to burn brick, whereby much waste of material and loss of time would be avoided. The Sacramento *Bee* of the 24th ult., in announcing the successful issue of the experiment says: "This morning, Phillip Callaghan opened his 'clamp kiln' of four hundred thousand brick, situated just below the R street levee, between Ninth and Tenth. This, the first trial in the city of a 'clamp kiln,' has proved a most perfect success."

Failed.—The project of constructing an underground railroad under Broadway, New York, has fallen through. The bill passed both branches of the Legislature, but was vetoed by the Governor. The principal reason for the veto was the fact that the bill was not sufficiently explicit in its provisions as to time, etc., which the corporation might consume in constructing the work. Had the bill passed, that great throroughfare might have been rendered almost impassable for four or five years. There is very little probability that the project will be again resumed.

The Bessemer Patent in the United States.—The Albany Iron Works, in Troy, have commenced the manufacture of mild steel, under Bessemer's patent, of which they have the entire control in the United States. The works for this manufacture have been in progress for nearly a year. It is expected that the demand for locomotive tyres will occupy the works to their present capacity; but it is intended ultimately to make steel boiler plates, and whatever else there may be a demand for.

Improvement in Carriage Making.—They are making carriages after a plan in England which is worthy of attention. The frame work is of angle iron, and the panels are of papier mache. The paper is stiffer than leather, and nearly as tough. Every part of the carriage body usually made of wood, is formed of papier mache. The springs are under the body, American fashion. The window runs along the roof on the inside, and draws down like a sash; and there is a sash door, which may be pushed down, and coils itself under the body of the vehicle. The ventilation is also improved.

A New Breach-Loading Musket.—Samuel Wilkes and John Leek, workmen at the American Machine Works, in Springfield, Mass., have invented a new breach-loading musket, the principle of which is quite original. The mechanism is very simple and not liable to get out of repair, while the piece may be fired very rapidly. The first gun of the kind has just been completed, and will be submitted to Major Laidley for his inspection.

Cost of the Rebel Navy.—One hundred millions of dollars would probably fall short of the expenditures of the rebels in their defensive gunboats, iron-clads, rams, floating batteries and transports. This profitable investment all went into the rebel sinking fund.

The latest invention in connection with the jewelry robberies is to connect the safes with the police station by means of telegraphic wires attached to the ordinary street telegraph wires.

Machines for seeding currants and stoning raisins are in common use in England.

A loom has been manufactured in Edinburgh, for the Countess of Eglinton, by which her ladyship intends to manufacture, herself, dresses for her own use.

The newest things in crinolines, says a Paris letter, is the substitution of silver for steel in the framework.

IMPROVEMENT IN IRON SMELTING.

A new and, as reported, a very successful improvement has recently been introduced into the system of iron smelting, at the foundries in Manchester, England. This system is nothing more or less than the introduction of steam in the upper portion of the cupola, for producing a blast, similar to the use of exhaust steam as lately applied for ventilating purposes to several mines in Washoe. The experiment was first tried at the foundry of the Messrs. Woodward, at Manchester, and since its success has been fully proven, quite a number of of the largest iron works in that city have applied the invention to their cupolas, and it is thought that it will soon become general not only for smelting pig iron, but for obtaining the metal from the mineral as well. The Manchester *Guardian* describes the invention as follows:

The ordinary method of smelting iron is by blowing through two or more tuyeres a powerful blast of air into the cupola which has been charged with pig iron and coke. To produce the blast in the cupola where the experiment was exhibited on the old method, a 4ft. fan, requiring eight horse power, was employed. By the new method, invented by Messrs. Woodward, the fan and all its usual accompaniments of shafting, strapping, oil, wear and tear, have been dispensed with. The cupola is two feet four inches diameter, and of the usual hight. At its upper portion, immediately above the part where the charge is put into the cupola, a steam pipe $1\frac{1}{4}$ inch bore, is inserted into a wrought iron chimney, about equal in length to the depth of the cupola below. The action of the jet of steam thence projected is to create a partial vacuum below it, and, as a consequence, a strong draught of air through the mass below. The working of the furnace is described as follows: "The fire is lighted and the charge thrown on in the usual manner, after which the charging hole is closed; the steam is then turned on and admitted into the funnel. The column of steam now rushing along carries or draws with it a quantity of air from below, thus producing a partial vacuum immediately above the fuel and metal to be acted upon. All being closed at the top, the only place left for the air to enter is through the openings at the bottom, through which it flows in one constant and unbroken stream, acting on all parts of the fuel alike, thus securing a general and uniform heat throughout the furnace, consequently a more perfect combustion of the fuel." It was stated that the new method saves a large quantity of coke, and that a much better kind of casting is now obtained from a common class of pig iron than could possibly have been got formerly. For smelting a ton of iron, little over a cwt. of coke is required, while the bringing down of the molten metal is performed much quicker. An advantage to persons outside the works is the absence of the glaring blaze and shower of fiery sparks always found on the old method. In fact, a little steam issuing from the chimney top, or top of the cupola, was the only external indication that the blast furnace was at work. The extreme simplicity of this invention strikes one with wonder that so valuable a discovery had not been made long since, especially when we remember that in our locomotives a jet of steam has long been projected into the fire-box to increase combustion, and by its aid to raise steam from a pressure of 30lbs. to 120lbs. in twenty minutes. Another advantage of this invention consists in its easily allowing cupolas to be worked in situations where it is inconvenient to have steam engines, as on men-of-war, and in warfare, for casting shot, shell, etc., and in many other situations. In foundries, where it is found requisite in cases of "breakdowns" to work unexpectedly late at night, this invention will be of great value, as it can be got to work within a very brief time without any engine power. We understand that a further improvement in this apparatus will shortly be completed, by means of which the upper portion of the cupola will be surrounded by a boiler, which will supply steam to the cupolas at a still further reduction on the present trifling cost.

A New Nail Machine.—The Wickersham nail machine, a new invention, is on exhibition in Philadelphia. Each machine is capable of turning out fifty kegs of the best quality of nails per day.

Gun Cotton in the Army.—The gun committee, says the *Army and Navy Gazette*, have been trying further experiments with this highly explosive material, and there seems to be every hope of its being used instead of powder, as a bursting charge for shells, and also as a mine in the torpedoes and other similar vessels, which are expected to be largely employed in any future naval war.

Grass Valley Directory.—We have received from W. S. Byrne, Esq., compiler and publisher, a "Directory of the Township of Grass Valley." The work appears to have been prepared with much care and diligence, and contains very interesting historical sketches of the town and most of its leading mines. Persons desirous of becoming better acquainted with the history and resources of this, the chief mining center of California, should purchase a copy of the work, which can be obtained of A. Roman & Co., Montgomery Street. The following paragraph, which we copy from this work, will be read with interest:

Grass Valley Township, the most populous and prosperous of interior Districts, contains, aside from its saw mills, 22 quartz mills or rather 19 quartz and two cement mills, running 208 stamps. Of these mills, eight do custom work, the remaining thirteen being engaged in operating for their owners. The number of stamps will in all probability be increased to three hundred during the present year. We already have thirty-eight dividend paying quartz mines, to which at least twice the number may be added before 1866, judging from the first-class ledges now being opened. A thorough canvass of the Township convinces us that no fewer than twenty-five hundred men are engaged here and in the vicinity in quartz mining, of which number about fifteen hundred are employed by large companies, the remainder being engaged in prospecting for themselves or working ledges without hoisting or pumping machinery. The discoveries of the present season may be safely enumerated by hundreds, many of which now promise to be productive mines for many years to come. More thorough prospecting has been done in Grass Valley Township during this season, and generally with better results, than during any five years from 1851 to 1864.

The town of Grass Valley never presented a more healthful aspect than at the present time. Excitement abroad, which formerly worked most disastrous results to the town's interest, are now powerless against us. Hosts who wandered off to Nevada, Reese River, Humboldt and Boise, in search of wealth too tardy in its advent to them here, have returned to Grass Valley, satisfied with their first love, and content to live here and accumulate fortunes. Eastern and local capital greedily seek investment in our mines, and, while there is no reckless speculation among us, many thousands of dollars have been invested in quartz mines here during the present year.

Cotton Manufactures in England.—An English paper says: "A very important question, however, looms in the future that may seriously affect the price of cotton, and that is the prospective scarcity of labor in the manufacturing districts. Even now, although the consumption is little over 30,000 bales per week, there are complaints of the difficulty of finding skilled hands, at least in the weaving departments. The four years of enforced stagnation have scattered the workpeople very much, and no new hands have been trained up in the interval. Though the relief lists still show a considerable amount of destitution, it is undoubted that there is no large reserve of unemployed skilled labor, and even though trade became highly prosperous, and every available spindle was put in motion, it is questionable whether hands could be found to work more than eighty per cent. of the full consumption of cotton before the war."

A Novel Idea.—The New York *Tribune* has some peculiar notions about railway fares. It proposes to adjust the rates to the speed of the train. 1. Emigrant trains to carry at one cent per mile. 2. Common trains running twenty miles per hour to charge two cents per mile. Express trains, to travel forty miles per hour at four cents per mile, the fare to be refunded when the train fails to make the connection, and where it is thirty minutes behind, but makes the connection, half the fare to be returned, so as to make it common time. In seasons of obstructions from snow, flood or ice, express trains to run on common fare and common time. These fast trains to be preceded five minutes by an engine, at whose approach a gate shall be closed at every highway that crosses the track on its level, and kept closed until the forty-mile train has passed. In places, however, as in the streets of cities, where it is not practicable, the speed to be reduced to twenty miles per hour.

It has been beautifully said that "the veil which covers the face of futurity is woven by the hand of mercy.

George Peabody, the London banker, is about to return to his native country, to spend the evening of his days and sleep with his fathers.

In Amsterdam, a speculator has built a concert hall which will seat eight thousand people.

City Stock Reports---San Francisco Stock and Exchange Board.

From the "Weekly Stock Circular" of the Associated Brokers.

SAN FRANCISCO, SATURDAY MORNING, July 8th, 1865.

The condition of the money market is substantially unchanged and there seems to be no improvement in the loan demand. It is quite apparent that the available capital of this city now exceeds the requirement in the ordinary course of business and that the tendency is to lower rates of interest. The London and San Francisco Bank, under the management of Mr. M. S. Latham and a Board of Local Directors, with a paid up capital of $500,000, will commence business in San Francisco Aug. 1st. We are informed that the present capital of this institution is to be largely increased, and that its operations will embrace a general banking and exchange business in London and San Francisco, and between these cities and all parts of the world.

Receipts of treasure from the interior mining districts since Saturday last have been light, and amounted to less than $800,000.

Bullion is meeting with no special inquiry and the supply continues ample. Gold bars are dull at 820@830 and silver bars rauge at about par to 2 ℔ cent. discount.

Legal Tender Notes, in the absence of telegraphic communication with the East, have been dull and inactive, and trifling sales were made at 73c@73⅛c, then at 73⅛c, and closing at 73⅛c bid, 73¾c asked.

The Share market has been exceedingly apathetic this week and the transactions at the Board were of less importance than for months past. A number of dealers have been out of the city, and the festivities incident to "the 4th," absorbed a large share of the attention of others. There is little or no improvement to note and some stocks are lower than at the close of last week. Nevada advices have been meager and devoid of special interest, but so far as we can learn, the work of development is progressing with the usual vigor without disclosing anything new.

Gould & Curry is dull but firmly held at about $1,750, ex-dividend of $50 per foot paid on Thursday last out of the earnings for the past month. The upper chambers of the mine show some improvement and the receipts of bullion from the mill are up to the usual average.

Savage has also been apathetic but well maintained. Small sales were made at $1,375@$1,390. The receipts of bullion during the month of June amounted to $115,000, and the immediate liabilities of the company have been reduced to about $75,000. Some conflicting titles were adjusted last month, involving an expenditure of $15,000. The mine is now yielding an average of 80 tons of ore per day, worth some $45 per ton. There is no material change in the lower level, but the indications continue favorable. Work has commenced upon the new main shaft.

Alpha is in rather less favor and a few feet were sold at $1,450@$1,410, then at $1,400, and closing at about $1,450 asked. Preparations are being made to thoroughly develop the lower level of this mine, meanwhile some good ore is taken from the upper chambers.

Yellow Jacket declined from $1,090 to $990, rose to $1,030, and sold yesterday at $1,060@$1,050; some 106 feet in all changing hands. The cash liabilities of this company are now about $200,000, and $132,000 will be due in nine and twelve months, in payment of the Morgan Mill property. To complete the improvements to this mill, the reduction capacity of which is to be increased to 80 tons per day (with 40 stamps), $50,000 will be required within the ensuing sixty days. In addition to this it will also require an expenditure of some $50,000 to sink the main shaft to the depth proposed and to pay for work already done upon it. This shaft is now down 180 feet. The west cross cut from the south drift discloses some streaks of good ore and may lead to a well defined deposit in that part of the mine. An average of about 140 tons of ore per day, worth $37½ per ton, has been hoisted to the surface during the past ten days.

Crown Point has been moderately dealt in, and 10 feet were sold, declining from $770 to $750, rallying to $775, and closing at about $760. The ore now taken from this mine shows some improvement, and the receipts of bullion are likely to increase. The propriety of purchasing the Rhode Island Mill is talked of by some of the stockholders and trustees of this company. The capacity of this mill is about 30 tons per day.

Belcher rose to $780, declined to $725, and sold yesterday at $715 @$720. Hale & Norcross fell from $560 to $460, and closed at about $480. There is nothing new from either of these claims.

Ophir was steadily maintained at $500 cash, and $480, seller 30, and sold yesterday at $485. The trial of the Burning Moscow *vs.* this Company resulted in a disagreement of the jury. Eight out of twelve jurors were, it is said, in favor of a verdict for the Ophir. The body of ore between the sixth and seventh levels is improving, and from this part of the mine 25 tons, yielding $50, and about 15 tons, giving $90@$120 per ton, are now daily sent to the company's mills. The receipts of bullion for the month of June amounted to $47,000.

Empire Mill and Mining Company is strongly held at about $500 per share. The yield of this mine for the past month amounted to some $70,000, and a dividend of $20 per share has been declared. The company recently purchased about 2,000 cords of wood for their use the ensuing fall and winter and dishursed $20,000 in June for this purpose. An average of 100 tons of ore per day is now daily taken from the mine, the larger portion of which is first and second-class ore.

Chollar fell from $345 to $335, and sold yesterday at $330@$325. In stopeing up from the fifth to the fourth level in the south mine, about twenty tons of $40 ore are daily taken. The indebtedness of this company is now about $105,000. Potosi declined from $335 to $325, and was dealt in yesterday at $325@$320. From the third level (above the tunnel) some 20 tons of fair ore are daily hoisted to the surface. The present liabilities of this company amount to about $140,000. The Chollar Potosi Company owe $100,000, on account of the Grass Valley settlement and $100,000 additional, so that the combined debts of the two companies are at this time about $445,000, to be reduced to $305,000 after the payment of the present assessment of $50 per foot each.

Uncle Sam continues in favor and some 300 shares were sold, receding from $200 to $185, advancing to $250, and selling yesterday at $245@$267. An assessment of $50 per share was levied June 29th. Overman is also in better request, advancing from $180 to $250 and closing at $250@$257. The two lower levels in the mine are said to look very promising. An assessment of $50 per share was levied on the 29th ult.

Imperial fell from $238 to $221, ex-dividend of $10, paid on the 5th inst., rallied to $235, and closed at about $234. The mine is unchanged, and the affairs of the company are deemed more flattering than for some time past.

Burning Moscow has been largely dealt in and nearly 2,000 shares were sold, advancing from $32 to $37, dropping to $31, rallying to $36, declining to $28 and closing at about $31. An assessment of $20 per share was levied July 6th.

Bullion rose from $140 to $150, fell to $120 and sold yesterday at $190@$175. Pacific Insurance Company was sold at $140, ex-dividend of $6 per share, and is now held at $142. California Steam Navigation was sold at 74 ℔ cent. Firemens' Fund Insurance is offered at $110.

The aggregate sales of Stocks and Legal Tender Notes since Saturday last, amounted to $436,909.

70 shs Burning Moscow at 28 per share.
15 shs Burning Moscow at 29½ per share.
50 shs Burning Moscow at 29 per share.
5 shs Burning Moscow at 28¾ per share.
10 shs Burning Moscow at 28½ per share, s 3
20 shs Imperial at 234 per share, r w.
10 shs Imperial at 230 per share, s 30.
7 shs Imperial at 233 per share.
51 shs Imperial at 234 per share.
20 shs Cole (Va.) at 2 per share.
Amount of sales.....$ 72,654 00

Friday, July 7.

$18,000 Legal Tender Notes at 73¼ per cent.
$ 3,300 Legal Tender Notes at 73¼, s 3.
23 shs Uncle Sam at 245@255 per foot.
24 shs Uncle Sam at 250@260 per foot.
20 shs Uncle Sam at 251@253 per foot.
2 shs Uncle Sam at 265 per foot, b 30.
20 shs Wide West at 6¼ per share.
18 shs Belcher at 720 per foot.
10 shs Hale & Norcross at 475@460 per foot.
20 shs Overman 0 per foot.
24 shs Ophir at 490@485 per foot.
1 sh Savage at 1390 per foot.
7 shs Yellow Jacket at 1040@1055 per foot.
5 shs Yellow Jacket at 1050@1060 per foot.
57 shs Imperial at 236@235 per share.
34 shs Potosi at 325 per foot.
10 shs Pacific Ins. Fund at 140 per share.
245 shs Burning Moscow at 25@39 pr share.
10 shs Bullion at 190 per share.
20 shs Alpha, G. H., at 1400 per foot.

AFTERNOON SESSION.

162 shs Burning Moscow at 31¼@31 per sh.
16 shs Uncle Sam at 265 per foot.
2 shs Potosi at 320 per foot.
4 shs Chollar at 330 per foot.
30 shs Imperial at 235@234 per share.
3 shs Savage at 1390 per foot.
6 shs Hale & Norcross at 470@480 per foot.
15 shs Uncle Sam at 265@267½ per share.
73 shs N. American, Ex Sam, at 25 per sh.
Amount of sales.....$ 98,650 00

27 shs Uncle Sam at 218 per foot.
2 shs Uncle Sam at 219 per foot.
5 shs Uncle Sam at 220 per foot, b 3.
12 shs Overman at 210 per foot.
5 shs Overman at 205 per foot.
5 sh Overman at 207½ per foot.
7 shs Yellow Jacket at 990 per foot.
2 shs Yellow Jacket at 1010 per foot.
4 shs Yellow Jacket at 1020 per foot.
3 shs Yellow Jacket at 1025 per foot.
1 sh Savage at 1375 per foot.
20 shs Potosi at 325 per foot.
1 sh Alpha, G H, at 1400 per foot.
2 shs Alpha at 1410 per foot.
1 sh Hale & Norcross at 475 per foot.
3 shs Belcher at 725 per foot.
4 shs Crown Point at 765 per foot.
4 shs Crown Point at 775 per foot.
30 shs Burning Moscow at 20 per share, r w
30 shs Burning Moscow at 30½ per share.
70 shs Burning Moscow at 31 per share.
20 shs Burning Moscow at 31 per share, r w.
10 shs Burning Moscow at 30 per share, s 3.
20 shs Burning Moscow at 31 per share, s 3.
35 shs Burning Moscow at 31½ per sh, s 3.
50 shs Burning Moscow at 31 per share.
20 shs Burning Moscow at 31½ per sh., r w.
10 shs Bullion at 120 per share.
5 shs Bullion at 122½ per share.
5 shs Imperial at 231 per share, b 30.
37 shs Imperial at 227 per share.
20 shs Pacific Insurance at 140 per cent.
$ 5,000 Legal Tender Notes at 73¼, s 3.

AFTERNOON SESSION.

3 shs Yellow Jacket at 1027½ per foot.
80 shs Minerva, G. H., at 130 per foot.
9 shs Uncle Sam at 235 per foot
5 shs Uncle Sam at 237½ per foot
17 shs Uncle Sam at 240 per foot.
1 sh Overman at 220 per foot.
3 shs Overman at 230 per foot.
10 shs Bullion at 137½ per share, b 30.
20 shs Bullion at 140 per share, b 30.
10 shs Bullion at 132½ per share.
10 shs Burning Moscow at 30 per share.
1 sh Overman at 180 per share.
8 shs Chollar at 335 per foot.
10 shs Imperial at 222½ per share.
1 sh Imperial at 223 per share.
25 shs Imperial at 221 per share.
40 shs Burning Moscow at 33 per share.
30 shs Burning Moscow at 31 per share.
40 shs Burning Moscow at 30 per share.
20 shs Burning Moscow at 31½ per share.
40 shs Burning Moscow at 31 per share.
10 shs Bullion, G H, at 142½ per share.
5 shs Bullion at 141 per share.

AFTERNOON SESSION.

5 shs Uncle Sam at 295 per foot.
3 shs Uncle Sam at 299 per foot.
4 shs Uncle Sam at 210 per foot.
24 shs Ophir at 480 per foot, s 30.
12 shs Ophir at 497½ per foot.
24 shs Ophir at 497½ per foot, s 3.
2 shs Overman at 195 per foot.
4 shs Alpha at 1410 per foot.
2 shs Yellow Jacket at 1010 per foot.
1 sh Yellow Jacket at 1005 per foot.
3 shs Yellow Jacket at 1000 per foot. r w.
7 shs Yellow Jacket at 990 per foot.
1 sh Yellow Jacket at 990 per foot, r w.
100 shs Minerva, G. H., at 150 per foot.
10 shs Burning Moscow at 32½ per share.
15 shs Burning Moscow at 33 per share.
50 shs Burning Moscow at 34 per share.
198 shs Burning Moscow at 34½ per share.
5 shs Burning Moscow at 35 per share.
50 shs Burning Moscow at 36 per share, b 30.
71 shs Bullion at 140 per share,
10 shs Imperial at 224 per share.
30 shs Imperial at 223 per share.
11 shs Imperial at 223 per share, s 30.
Amount of sales.....$108,630 00

Thursday, July 6.

4 shs Uncle Sam at 215 per foot.

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, July 1.

24 shs Ophir at 500 per foot.
18 shs Ophir at 490 per foot, r w.
96 shs Ophir at 495 per foot.
12 shs Ophir at 500 per foot, b 3.
24 shs Ophir at 495 per foot, s 5.
24 shs Ophir at 497½ per foot.
12 shs Crown Point at 765 per foot.
8 shs Crown Point at 765 per foot, s 3.
12 shs Belcher at 750 per foot, s 30.
12 shs Belcher at 775 per foot.
6 shs Belcher at 780 per foot.
6 shs Belcher at 770 per foot.
3 shs Belcher at 760 per foot.
4 shs Uncle Sam at 195 per foot.
1 sh Uncle Sam at 192½ per foot.
10 shs Uncle Sam at 190 per foot.
4 shs Uncle Sam at 185 per foot.
2 shs Uncle Sam at 186 per foot.
4 shs Yellow Jacket at 1085 per foot
3 shs Yellow Jacket at 1090 per foot.
2 shs Potosi at 337½ per foot.
4 shs Potosi at 338 per foot.
10 shs Potosi at 332½ per foot.
12 shs Chollar at 345 per foot.
4 shs Minerva, G. H., at 150 per foot.
5 shs Bullion at 140 per share.
130 shs Burning Moscow at 33 per share.
40 shs Burning Moscow at 32½ per share.
14 shs Burning Moscow at 32 per share.
20 shs Burning Moscow at 33 per sh, b 3.
45 shs Burning Moscow at 34 per share.
40 shs Sierra Nevada at 12½ per share.
1 sh Imperial at 238 per share.
20 shs Wide West at 7¼ per share.
5 shs Cal. Steam Nav. Co. at 73 per ct, s 3.
$ 2,500 Legal Tender Notes at 73 per cent.

No afternoon session.

Amount of sales.....$ 72,150 00

Monday, July 3.

84 shs Ophir at 490 per foot.
48 shs Ophir at 490 per foot, r w.
2 shs Uncle Sam at 202½ per foot.
5 shs Uncle Sam at 200 per foot.
1 sh Uncle Sam at 197½ per foot.
1 sh Uncle Sam at 195 per foot.
2 shs Uncle Sam at 196 per foot.
2 shs Uncle Sam at 196 per foot, r w.
4 shs Yellow Jacket at 1085 per foot.
6 shs Yellow Jacket at 1080 per foot.
1 sh Yellow Jacket at 1080 per foot, b 3.
7 shs Yellow Jacket at 1075 per foot, a 5.
1 sh Yellow Jacket at 1075 per foot.
1 sh Belcher at 750 per foot, r w.
1 sh Belcher at 750 per foot.
2 shs Belcher at 760 per foot.
2 shs Hale & Norcross at 560 per foot.
12 shs Chollar at 340 per foot, s 3.
8 shs Alpha, G H, at 1450 per foot.
20 shs Burning Moscow at 37 per share.
10 shs Burning Moscow at 37½ per share.
10 shs Burning Moscow at 38 per sh, r w.
60 shs Burning Moscow at 38 per share.
10 shs Burning Moscow at 37 per share, b 3.
10 shs Burning Moscow at 35 per share.
100 shs Burning Moscow at 36 per share.
10 shs Burning Moscow at 36 per share, r w.
76 shs Bullion at 150 per share.
5 shs Bullion at 150 per share, r w.
1 sh Bullion at 151 per share.
10 shs Bullion at 148 per share.
10 shs Petaluma Mill at 100 per share.
$ 6,630 Legal Tender Notes at 73 per cent.
$ 5,000 Legal Tender Notes at 73½ per cent.
$10,000 Legal Tender Notes at 73 p ct, s 3.

AFTERNOON SESSION.

3 shs Belcher at 750 per foot, a 3.
9 shs Belcher at 750 per foot.
1 sh Uncle Sam at 197 per foot.
17 shs Uncle Sam at 197 per foot, s 30.
1 sh Yellow Jacket at 1070 per foot.
1 sh Yellow Jacket at 1070 per foot, s 3.
2 shs Yellow Jacket at 1065 per foot, s 3.
1 sh Yellow Jacket at 1060 per foot, s 3.
1 sh Yellow Jacket at 1050 per foot, s 12.
2 shs Yellow Jacket at 1050 per foot, s 15.
50 shs Ophir at 500 per foot.
8 shs Minerva, G. H., at 150 per foot, r w.
14 shs Burning Moscow at 35 per share.
20 shs Burning Moscow at 34 per share.
20 shs Burning Moscow at 33 per share.
10 shs Burning Moscow at 32½ per sh, b 3.
35 shs Burning Moscow at 31½ per share.
50 shs Burning Moscow at 31 per share.
20 shs Bullion, G H, at 146 per share.
10 shs Bullion, G H, at 146 per share, s 3.
10 shs Imperial at 232½ per share, a 30.
10 shs Imperial at 230 per share.
10 shs Imperial at 234 per share.
10 shs Imperial at 227½ per share, s 30.
10 shs Imperial at 231 per share.
Amount of sales.....$104,825 00

Tuesday, July 4.

Board not in session.

Wednesday, July 5.

6 shs Belcher at 750 per foot.
6 shs Belcher at 740 per foot.
3 shs Belcher at 750 per foot, s 15.
5 shs Yellow Jacket at 1025 per foot.
1 sh Yellow Jacket at 1005 per foot.
4 shs Yellow Jacket at 1000 per foot.
5 shs Yellow Jacket at 1010 per foot, s 3.
6 shs Yellow Jacket at 1010 per foot.
1 sh Yellow Jacket at 1020 per foot.
3 shs Yellow Jacket at 1015 per foot.
4 shs Alpha at 1425 per foot.
6 shs Uncle Sam at 195 per foot.
35 shs Uncle Sam at 200 per foot, b 3.
16 shs Uncle Sam at 197½ per share.
5 shs Uncle Sam at 197 per foot.
36 shs Ophir at 490 per foot.

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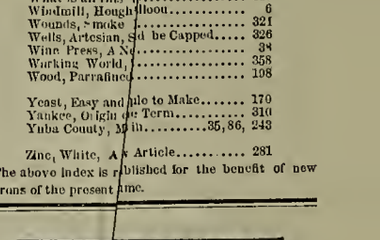

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LAND SLIDES ON LAKE ERIE.—A quite singular, and to the parties owing the land, a very unprofitable phenomenon in the shape of huge "land slides," occurs quite often on the farms running along the Lake Erie shore. The shore is generally a high bluff, and the land is for some distance back underlaid with a sort of quicksand. The depth of soil covering his quicksand may be twenty or even fifty feet. It does not seem to matter much. Some little rivulet running over the bluff will first plough a small gully for itself, and a heavy rain setting in will loosen the earth and cause it to cave the edge of the bluff. The Lake will then wash away at the foot, and the treacherous quicksand will commence to slide gradually into the Lake, carrying with it a tremendous amount of superincumbent earth. Soon a huge branch is made into the farm, which is continually enlarged by renewed slidings of the ever-shifting foundation beneath. Many fine pieces of land are cut into this way by the acre, and no way of stopping the "slide" is as yet discovered. On one occasion the residents near one of these openings gathered together and cast into the chasm an immense amount of trees, logs, brush, and such material, hoping to form such mixed mass of substance that could not slip out into the lake. They were just resting from their labor and congratulating each other the success of this effort to barricade the exit of more land, when suddenly the whole mass of stuff began to move, and in a short time gracefully into and under the water, leaving people to console themselves as best they could.—*Erie Dispatch.*

EARTHQUAKE IN MISSOURI.—A little before seven o'clock yesterday morning, the shock of an earthquake was felt in this city and Carondelet and Alton. A good deal of alarm was excited. Persons not yet up were aroused by the shock, and houses exposed vibration so much as to cause the overthrow of flowpots, etc. Children were much frightened, and at Alton the bells of a clock were set in motion. There were three distinct shocks, first being the most serious—the others following in quick succession. What effect may have been produced in the southeastern portion of this State, where such visitations have been quite common, is as yet unknown. The earthquakes at and around New Madrid are matters of history; there lakes of water suddenly became high land, and trees standing upon high ground were at once hidden from view and the whole surface for a great many miles was at once changed in position and appearance. The effects are visible at this day, shocks are of frequent occurrence. About seven o'clock on Sunday evening a storm of lightning, thunder and some rain passed over city from the north, and during the night, rain fell for some time.—*St. Louis Republican* of May 30.

ALL QUIET SOUTH OF THE POTOMAC.—The New York *Times* says: "The whole South is now profoundly quiet. There is railroad travel from Washington to South Carolina. There is telegraphic communication between Washington and Central Georgia, which will presently be completed to Montgomery and Vicksburg. The lines of telegraph between Memphis and New Orleans have been opened, and all the old connections will be resumed. Steamers traversed all the rivers of the South, and preparations are everywhere being made for the resumption of business. Before the close of Summer the commerce and trade of the South will have a great development. Its products, long held back, will find their way to the markets of the world, and the activity of its people and of the North will find a most profitable field."

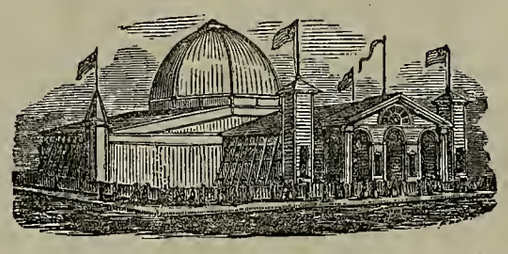
EASTERN CAPITAL IN THE MINES OF NEVADA COUNTY.—The Nevada *Transcript* of June 23d remarks:

The moneyed men of the East are becoming satisfied of the wealth of this county, and their agents are now here seeking investments. Within the past month some eight large sales have been made in this vicinity, while purchases have also been made in other parts of the country. Our prospectors are usually poor men, and unless a ledge is found which pays from the surface down the work of developing a mine is slow. The great want of the miner has been capital, and now that it is coming in we may look for great progress in the development of mineral wealth.

GOVERNMENT is preparing to collect much of its postal revenues from delinquent Postmasters. When the rebellion broke out most of the 9,000 Postmasters in the rebel States were largely in arrears for stamps and newspaper postage. By an Act passed last winter, the real estate of a Postmaster and his securities may be seized by attachment.

DR. PRETTY, an English physician, claims to have found a very simple mode of arresting the hiccough. It is sufficient to squeeze the wrist, preferably that of the right hand, with a piece of string, or with the fore-finger and thumb of the other hand.

THE FIFTH INDUSTRIAL FAIR



OF THE MECHANICS' INSTITUTE OF SAN FRANCISCO,

To be Held in the Mechanics' Institute Pavilion in August, 1865.

The Mechanics' Institute having determined to hold their Fifth Industrial Fair during the coming season, the Executive Committee would respectfully invite all persons desirous of exhibiting Machines, Manufactures, Agricultural Implements, Horticultural Products, Minerals, Ores, and Works of Art, to make application immediately, in order that the proper space may be allotted them.

The Exhibition will be open to the public on Thursday, the 17th day of August, at 10 o'clock A. M.

The general management of the Fair is entrusted to an Executive Committee, consisting of the officers of the Institute.

No contracts or agreements will be recognized unless made by the authorized agents of this Committee.

A competent person will be in attendance at the Pavilion to receive and register all goods designed for exhibition, and will receipt therefor.

Contributions of Machinery and other articles that require long time to prepare for exhibition, will be received from the 15th of July to the 2d of August.

Articles for exhibition that require large space may be entered on or before the 20th day of July, and space will be allotted to the exhibitor on or before the 2d of August.

The Picture Galleries will be ready for the reception of Pictures, Embroideries, Wax and Fancy Work of all kinds, on the 1st of August, when space will be allotted.

The Committee will be prepared for the reception of Fruits, Flowers, Agricultural and Horticultural Productions, and design to have the tables so arranged that the best display possible can be made in this department, and every effort will be made and care taken to preserve their freshness, so that exhibitors may receive full credit for their productions. Those wishing space on these tables should engage it at an early day. There will be space reserved for additions in this department during the Fair.

The several transportation companies, as on former occasions, have, with commendable liberality, consented to transport articles intended exclusively for exhibition free of charge, and Messrs. Wells, Fargo & Co., in like manner, will take charge of them.

The Committee have the fullest confidence that the coming Fair will not only be the most complete and varied in its character, but will also be more attractive than any previous exhibition of this kind on this coast.

No pains or expense will be spared to give the contributors satisfactory opportunities in the spacious pavilion of the Institute for the display of their contributions, and to furnish whatever may be necessary to make the Fair an institution where those who frequent it may be both pleased and instructed.

All articles forwarded should be labeled "For the Industrial Exhibition," San Francisco.

All communications to be addressed to C. S. HIGGINS, Corresponding Secretary.

EXECUTIVE COMMITTEE.

CHARLES M. PLUM, President.

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San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	12 50 @14 50
Do Superfine	10 00 @12 50
Corn Meal, ₱ 100 lb	3 50 @ 4 00
Wheat, ₱ 100 lb	2 00 @ 4 00
Oats, choice, ₱ 100 lb	1 50 @ 1 75
Barley, ₱ 100 lb	1 25 @ 1 75
Beans, ₱ lb	3 @ 4 00
Potatoes	3 @ 4 00
Hay, ₱ ton	10 00 @15 00
Live Oak Wood, ₱ cord	8 00 @10 00
Beef, on foot, ₱ lb	8 @ 10
Beef, extra, dressed, ₱ lb	16@ 22½
Sheep, on foot	1 00@ 2 00
Hogs, on foot, ₱ lb	8 @ 12
Hogs, dressed, ₱ lb	12 @ 15

Groceries, Etc.

Sugar, crushed, ₱ lb	15 @ 16
Do China	12½@ 13
Coffee, Costa Rica, ₱ lb	22 @ 23
Do Rio	22 @
Tea, Japan, ₱ lb	85 @ 95
Do Green	70 @ 90
Hawaiian Rice, ₱ lb	@ 12½
China do	10 @ 12
Coal Oil, ₱ gal	1 05 @
Candles, ₱ lb	20 @ 24
Ranch Butter, ₱ lb	40 @ 50
Isthmus do	33 @ 38
Cheese, California, ₱ lb	20 @ 25
Eggs, ₱ doz	45 @ 50
Lard, ₱ lb	23 @ 25
Ham and Bacon, ₱ lb	23 @ 25
Shoulders	15 @ 18

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	50@ 60
do pickled ₱ lb	40@ 50
do Oregon	35@ 40
do New York, ₱ lb	35@ 45
Cheese, ₱ lb	20@ 25
Honey, ₱ lb	40@ 50
Eggs, ₱ doz	50@ 55
Lard, ₱ lb	25@
Hams and Bacon, ₱ lb	20@ 25
Cranberries, ₱ gal	75@
Potatoes, sweet, ₱ lb	6@ 8
do Irish, ₱ lb	5@ 6
Tomatoes, ₱ lb	15@ 20
Onions, ₱ lb	6@ 8
Apples, No. 1, ₱ lb	8@ 10
Pears, table ₱ lb	6@ 10
Plums, dried, ₱ lb	10@ 15
Peaches, dried, ₱ lb	10@ 15
Grapes, Foreign, ₱ lb	25@ 50
Oranges, ₱ 100	2 50@ 3 00
Lemons, ₱ 100	5 00@ 6 00
Chickens, apiece	1 00@ 1 25
Turkeys, ₱ lb	37½@
Wild Ducks, ₱ doz	4 00@ 6 00
Oysters, ₱ 100	1 00@ 1 25
Fish, Fresh, ₱ lb	5@ 20

NOTICE.

The co-partnership heretofore existing between John Youngberg, Stephen H. Covert and William B. Gleason, is hereby dissolved by reason of the said Gleason and Covert having left for the East. This is to notify all persons that I shall pay no debts contracted by the said parties from and after this date. JOHN YOUNGBERG.

San Francisco, May 15th, 1865. 20v10-1m

Our Patent Agency.

THE PATENT AGENCY of the MINING AND SCIENTIFIC PRESS has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of LETTERS PATENT from the United States and foreign Governments cannot be over-rated, and the Proprietors of the PRESS, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

A CARD.

MR. H. S. JACOBS, formerly of this State and Oregon, adopts this method of calling the attention of his old friends and customers to the fact that he has established himself permanently in the city of New York, having, since his residence in California, perfected and secured by letters patent his celebrated WHEEL MAKING MACHINERY, which not only materially reduces the cost of manufacture, but makes a much more durable and finished wheel than by the old method. These facts are simply attested by the large and increasing demand for Wheels made by this machinery, as well as by the numerous testimonials furnished by parties who have purchased and tested them. Having made large contracts for timber, selected expressly for this purpose by a gentleman who has had an experience of upwards of thirty-five years, and whose entire attention is devoted to the selection of stock connected with this branch of industry, and having had myself an experience of eleven years in manufacturing in California and Oregon, and being personally acquainted with the sizes, styles, material and wants of these States, I feel the most entire confidence in being able to supply the trade with a better and cheaper article than can be had from any other source, and in whatever quantity may be desired, having on hand at present one of the largest and best assorted stocks of Omnibus, Truck, Cart and Light Wagon Wheels, of all sizes, together with a varied assortment of Hubs, Spokes, Fellocs, Bent Rims, Shafts, Poles, etc., to be found in the country—all made under my own supervision and of the very best material and workmanship. All descriptions of well-seasoned Timber kept constantly on hand and supplied in any quantity. Orders for material of all and every kind pertaining to Wagon manufacture will be filled promptly for cash on delivery.

Address, THE JACOBS PATENT WHEEL-DRESSING MACHINE AND WHEEL COMPANY, 99 Wall street and 145 and 147 Bank street, New York.

N. B.—Those desiring peculiarity of style in Hubs, Felloes, Spokes, etc., can be accommodated, and will receive our careful attention by sending samples of the same. [20v10

NOTICE TO MINERS.

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In Incorporated Companies and Unincorporated Mines, in San Francisco District and in El Dorado District, Arizona Territory. It is confidently asserted and believed by most practical miners that Arizona is the richest mining country in the world. Recent developments of these mines are now attracting the attention of capitalists, who have already erected several mills, and more are going there soon. Now is the time to invest to advantage, and obtain the rise that must soon follow. Those wishing to purchase soon can do so, on most liberal terms, by calling on MR. RODNEY CLARK, 338 Montgomery street (room No. 11), San Francisco, or on H. C. SKINNER, San Jose, California.

N. B.—Freight all the way by water at a cost of 4½ cents per pound.

H. C. SKINNER,
San Jose, California.

San Francisco, April 27, 1865. 17q10

1852. 1865.

Thirteenth Year of Publication.

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Founded in 1852.

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THE GOLDEN ERA is furnished to CLUBS at the following rates: Three Copies, one year, Ten Dollars; Five Copies, one year, Fifteen Dollars; Ten Copies, one year, Twenty five Dollars. An extra copy will be forwarded, free, for one year, to the person sending a club of five or ten subscribers.

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C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides and the evidence of any error which may appear will be received in friendship and treated with respect.

American and Foreign Patents.—Letters Patent for inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions or machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the credit system.

San Francisco:
Saturday Morning, July 8, 1865.

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

Canvassing Agents.

We would call attention to the following named agents of the MINING AND SCIENTIFIC PRESS as gentleman worthy of the countenance of any community which they may visit, and assistance rendered them in their efforts, by friends and old patrons, or our brethren of the PRESS, will be acknowledged as a personal favor to us:—

Mr. Robert Lattimore—Amador and Alpine counties and the State of Nevada.

Thos. Poyzer, of Grass Valley, for Nevada, Yuba and Sierra counties.

THE MEXICAN EMIGRATION SCHEME is undoubtedly assuming formidable proportions, and such as bode no good to Imperialists in that country. It is said that Sam. Brannan has taken $50,000 in the Mexican Loan Stock. Operations connected with the movement, though managed quietly, are said to be carried on with much energy and success.

The editor of the Stockton *Independent* has seen a letter from an old military man of San Francisco to a citizen of Stockton, stating that sometime in the month of August he and other notables of that city, whom he names, but whose names are withheld, are going to Mexico at the head of a military organization, which is to compose the "1st Regiment of California." The regiment is to be provided with two batteries of artillery, and the inducement is that it is intended as the advance guard from this State, and to test the metal of Californians against the French veterans now holding Guaymas and Mazatlan.

CARING FOR THE DISABLED SOLDIERS.—A great Fair was to have been opened at Milwaukie, last week, from which it is expected a quarter of a million of dollars will be realized. The object is to establish and endow a permanent Home for disabled Wisconsin soldiers, and will no doubt be a grand success, for the whole people of that State have been zealously preparing for it. Similar enterprises should be inaugurated in other States, until every State in the Union has a comfortable home for its disabled heroes.

A SEMI-MONTHLY line of steamers is advertised soon to commence running between Liverpool and New Orleans. Some Liverpool firms also announce the early resumption of business relations with New Orleans.

THE Government is now constructing three revenue cutters to be used on the lakes. Three more will soon be commenced, and thus the Government will soon have a nucleus for quite a little navy on the Lakes.

COTTON AND ITS MANUFACTURE IN CALIFORNIA.

An establishment for the manufacture of cotton fabric will soon be in operation in California. The machinery, which includes everything necessary for ginning, spinning and weaving cotton, is already on the ground of the intended site of the mill, at Clinton, on the San Antonio creek, Alameda county. The mill, when ready for operation, will cost about $100,000. The company will be able to manufacture sheetings, shirtings, etc., also material for flour sacks, duck for hydraulic hose, and canvas for shipping.

This enterprise is one of great public utility and importance; but to succeed, the company must be able to purchase the raw material at so low a figure as will enable them to force the imported articles of the same class out of the California market, which our people can greatly aid them in doing by giving exclusive preference to home manufactures, and thus keep the bullion in the country which now goes abroad to purchase our cotton fabrics. This has already been done in the way of sugars, and several kinds of woolen fabrics, and similar results will attend the manufacture of powder, shot, bar lead and leather.

The most important question with regard to success in this enterprise is the price at which the raw material can be purchased on this coast, as compared with its cost at the East. It has been quite fully demonstrated that this great staple can be raised in California in large quantities and of good quality. Its cultivation has already been undertaken on quite a large scale in Tulare county. According to the Visalia *Delta*, Jewett & Co., upon Kern river, have now about one hundred and forty acres in cotton. They succeeded in getting a good stand; the plants look strong and are taking a good shape to be productive, and in every essential characteristic of good cotton, excel by far the general appearance of that crop in Middle and West Tennessee, at this season of the year.

Los Angeles and San Diego are equally favorably situated for producing this staple. The climate of those counties is in every way suited to its cultivation, and is as fully as tropical as the Mexican State of Sinaloa, still further south, where its growth is beyond question. Those who have already engaged in the enterprise are deserving of much credit for their energy and faith, and it is hoped that they may meet with such success as will induce many others to embark in similar undertakings. It is only from the home productions of the staple that cotton manufactories can succeed in California. We have the soil and climate to perfection in the lower portion of the State, and Mexican and Chinese labor can be had there in abundance, and at rates quite as cheap as labor can be obtained on the cotton fields of the Atlantic States. Let our people prepare to embark freely in the enterprise another year. It will pay, and will keep millions of dollars, per annum, in circulation here that would otherwise go East for the products of Southern lands and Northern looms.

RICH DISCOVERIES NEAR SALT LAKE.—Much excitement exists at the present time in Salt Lake about some remarkably rich discoveries of gold and silver mines, reported as having been made in Snake Creek Cañon, Provo Valley, forty or fifty miles southeast of that city. According to the *Vedette*, merchants left their stores; mechanics left their workshops; Gentiles left their business, and Mormons their broad fields. Everybody, almost, who had a horse to go on, or a livery team to get, started for the new El Dorado.

TREASURE EXPORTS.—The amount of treasure shipped from this port during the first half of the present year was $21,004,496; being $7,989,214 less than the amount exported during the same time in 1864. Nearly four millions—almost one-fifth—of the amount shipped went to China.

THE pyrotechnical exhibition at Sacramento, on the Fourth of July, took place from barges moored in the river.

OIL WELLS AND OIL WELL BORING AT THE EAST.

It is said that not less than sixty inventions have been patented within the past three or four years for various supposed improved devices in boring oil wells. It is also said that several of the more recent and promising of these inventions are about to be put to practical tests by various companies possessing ample pecuniary means. We shall endeavor to keep posted with regard to all improvements in this direction, and whenever any experiments have satisfactorily demonstrated that anything better than the common drill, with the ordinary mode of working the same, has been devised, we shall lose no time in laying the matter fully before our readers. The business of mining for oil is beyond a doubt yet in its infancy, and much will doubtless yet be learned; but it is not worth the while of Californians to spend any money in experiments while so much is being done in that direction by practical operators at the East. Let us wait and learn.

The Oil City *Register*, in alluding to the stoppage of flow in many wells once productive, says:

We are among those who entertain the opinion that the petroleum supply is practically inexhaustible. The stoppage or failure of wells to yield an unbroken, steady supply, can be accounted for in many ways. We have seen tubing of oil wells that became packed so tight with paraffine that all the power of the gas failed to force the oil through. In such case the paraffine had to be removed, which being done, the well was as good as ever. The paraffine we saw taken from the tubing was about of the same consistency as lard. We think it certainly reasonable to suppose that the crevices in the earth through which the oil is forced become clogged or stopped up in the same manner as the tubing we have alluded to. Very frequently, in removing the tubing for the purpose of changing the location of the seed-bag, which is used to cut off the water, a quantity of gravel and sand is dislodged, and falling to the bottom, has the tendency to materially assist in filling up the crevice or crevices.

But the most frequent reason for the stoppage of wells is that of boring so many wells within a small space of territory. The same disposition exists among oil miners as in the old lady who had the goose that laid the golden egg. We know of several instances wherein parties owning a lease of a single acre, upon which was a good well, concluded to bore another, and by this means have spoiled both wells and rendered them imperative. In order to fully comprehend our meaning, the reader not conversant with the subject will understand that the main supply of oil is at the depth of about five hundred feet from the surface of the earth. This depth varies in different localities, the parties operating upon Cherry run and the Allegheny river having generally to sink their wells to the depth of from 600 to 650 feet before striking the third sandstone that overlies the largest deposits that have yet been found. In boring a well, frequent water courses beneath the earth's surface are met with. These are seldom found below the depth of 150 to 200 feet. To prevent this water from going down, which would prevent the oil from coming up, as well as to keep the gas from escaping, the seed-bag is used. This is a bag made of stout leather, partially filled with flax-seed, tied at both ends around the outside of the tubing. Upon getting moist, the flax-seed swells, and the bag is caused by the expansion to fit the hole tight, preventing the escape of the gas and the ingress of water below the seed-bag. Being thus confined, with no mode of escape, save through the tubing put in the well, the gas furnishes the motive power to lift the oil to the earth's surface.

It has been the general custom, heretofore, to abandon every well that was unsuccessful, or that failed to meet the expectations of its sanguine owner. These not being tubed, or the water cut off, allowed the gas to escape, and water pouring down, forced the oil into other channels. The escape of the gas had the same effect upon the wells adjacent that a leak in the boiler would have to the working of a steam engine. The number of wells thus abandoned can be numbered by the hundred. It happens, not unfrequently too, that parties will operate in order to stop a productive well, and, if successful, inflict great, and often irreparable injury, to the interests of perhaps half a score of others, and even then fail to be materially benefitted.

With such an utter waste of the forces that nature designed to play so important a part in the production of petroleum, is it any wonder that large flowing wells are no longer struck? It is rather wonderful to us that any oil at all should be forced to the surface of the earth, save the small quantity lifted by the wheezing, ricketty pumping apparatus now used.

The remedy to apply is exceedingly simple, and many companies are applying it as fast as possible. It is to tube these abandoned wells, or rather take a sucker rod, which is the cheapest mode, and by use of the seed-bag shut off the water and prevent the gas from escaping. By thus closing up four-fifths of the wells the other fifth will prove productive and give a steady yield for an indefinite period. In proof of the efficiency of this plan, we cite the Clapp farm, on Oil Creek. The owners of this farm commenced tubing the abandoned wells, of which there were a great many on their lands, some time since, just as fast as they were forfeited. The result has been a perfect success, and the Clapp farm now exhibits an increase in production of over 700 per cent.—all owing to the exercise of common prudence. We can cite other instances where the same plan has been in like manner highly successful. As the advantages thus presented are so palpable, it is strange that any well should be allowed to remain in a state calculated to work irreparable injury to the interests of all the parties concerned.

We have thus cited some of the reasons for the stoppage of oil wells and their short-lived productiveness. Those not conversant with these facts have good cause to be timid in regard to making investments. But the prospect is now more cheering. Those owning oil lands make it obligatory upon the lessees to stop up their wells in case they are abandoned, and also regulate the length of time for which the tubing of any well can be removed. For when the tubing of one well is removed, frequently half a dozen others in the immediate vicinity are flooded, and temporarily if not permanently injured. It is true that the water can be pumped out at great labor and expense, but the loss of the gas, or motive powers, so indispensable to production, is irreparable.

With the help of improved machinery to remedy and apply to causes we have stated, and the exercise of a proper degree of economy in husbanding the forces which nature has supplied to assist us in obtaining one of her most bountiful as well as most useful productions, the supply will certainly be sufficient to meet all the demands that are made upon it, while if the loose and careless plan of former years continues, it is very probable that in a short time the petroleum supply will become insignificant—in other words, petroleum, as a business, will be "played out."

TREASON TRIALS.—Jeff. Davis's approaching trial for treason will eclipse in interest the only other great trial for the same crime that this country has seen—when Chief Justice Marshall sat upon the Bench, Aaron Burr was in the prisoner's dock, John Randolph was foreman in the jury-box, William Wirt was the Prosecuting Attorney, Luther Martin was the prisoner's counsel, Andrew Jackson was one of the witnesses, and General Scott, Commodore Truxton and Washington Irving were among the spectators.

THE WATER OF MONO LAKE.—A recent analysis of an eight-pound gallon of this water contained 1,200 grains of solid matter, which consisted principally of chloride of sodium (common salt), carbonate of soda, borax, sulphate of soda (glauber salt) and silica. The water also gave unmistakable indications of sulphuretted hydrogen.

DECAY OF NATIONS.—Along the pathway of the world's history lie scattered the ruins of thrones and empires, as human bones are left to bleach along the thoroughfares of pagan pilgrimage; an epitaph is uttered by the eternal silence and desolation that reigns over them. "They would not heed truth, and justice, and humanity, and have perished from the earth! These would have made them great, and happy, and immortal!"

THERE are few things more curious in horticulture than the occasional variations of a shoot or branch from the regular character of the parent plant. If these shoots are cut off and induced to send out roots of their own, or, if buds or grafts be taken from them, and secured to something else, they retain all their peculiarities, and become as a new variety as is obtained from seed.

A STATE GEOLOGIST.—It is said that the Secretary of State for Nevada has appointed R. H. Stretch State Geologist, in accordance with the provisions of the Act passed by the Legislature of that State, last winter.

PRESIDENT JOHNSON was the original author and for many years almost the sole champion in Congress of the Homestead law, under which every man can become the owner of a home without money and without price.

VOLUME ELEVEN.

The Mining and Scientific Press to-day enters upon its eleventh volume. What it has been and what it now is, its columns, past and present, attest; what it may he in the future depends upon what its readers and patrons may see fit to enable us to make it. It is by no means the paper which we desire it should be, or such a one as the magnibcent interests which it represents should possess; yet it is all that its present patronege will support. We do not write thus from any feeling of discouragement, or because we have not reached the point which we had expected to reach at the present time. On the contrsry our most ssnguine expectations have been more than realized. It has been onr eim to supply substantial and valuable reeding metter, such as shall instruct rather than interest. We have lahored to make a useful journal—we know we have made a permanent one. We are under many ohligations to correspondents who have greatly facilitated our editorinl labors by their contributions on the various specialities to which onr colnmns are devoted. We would also take this occasion to express thanks for tbe numerous favors of friends who have interested themselves in increasing the circulation of the paper, and in otherwise securing business towards its support. We trust they will still continuo their kindly offices. Our readers can do much towards increasing the circulation of the Press, snd in so doing they will enable us to do all the more for their instruction, by giving additional value to its columns. In thus looking back upon the pnst, and casting a hopeful thonght into the future, it is not necessary that we sbould pause to confess editorial sbort-comings. The older we grow, the more we see to learn. In our efforts to inform and instruct onr readers, the reflex influences is perhaps tbe greater. Wo trust that influeuce will be cumulative on our part, to the end that we may from week to week be the better able to fulfill our task. Mindful of the past and hopeful for the futnre we pess on to complete another volume of tbe Press.

Letter from Scotland.

Bathoate Chemical Works,
Scotland, May 11th, 1865.

Editors Mining and Scientific Press:—In your journal of February 25th, 1865, there occnrs the following words: "Soon after Mr. Cherry came to this State to secure the means to return and carry out his ideas of producing an illuminating oil from coal and crude petroleum. Having accomplished this purpose, be returned in 1854, visited the various coal districts in the United States, went to England, had further and protracted interviews with his former friend and co-investigator, Mr. Young, who had then associated with himself Mr. Mansfield"—and as I fear I may be the Mr. Young alluded to, and the statement become bad history, I beg space to state tbat I never was associated in any way, or ever saw the face of either Mr. Cherry or Mr. Mansfield. I am, sir, yours respectfully,

James Young.

P. S.—It is likely the matter referred to ahove hes heen already corrected—if so, all right; if not, please obligc me by inserting my notc. In your paper I see a letter signed Thomas Rowlandson. I believe he is an old friend of mino, and as I do not know his address, I have taken the liberty to enclose a note, and shall trust to your goodness to send it to him. J. Y.

Remarks.—We are pleased to note the circulation of our paper is such that an error located at any distance is bound to attract attention and return for rectification. Wc published the paragraph alluded to on the authority of a mcmber of Mr. Cherry's family. That is all we know about it. We are obliged to Mr. Youug for sending his statement, as it may prove to be of service to othcrs. The writer of the above letter is the gentlemau who first secured, by letters patent, the discovery of the process of obtaining oil from coal hy slow distillatiou, at low heat; and from which he has realized a fortune, which rumor has set down at not less than five millions of dollars.

Mining Summary.

CALIFORNIA.

The mining interest in California appears to be decidedly improving, and this notwithstanding there hss heen a marked decrease in tbe treasure shipments for the past six montbs, as compared with the same period last year. The gold receipts at the mint, from that time, from the California mines, have not been so lsrge during any similar period for several years. This improvement is clearly due to the increased attention which is now being paid to working our gold-bearing quartz veins. There has been a large increase in the number and efficiency of our mills, the present season, and the moneyed men of the East are rapidly gaining confidence in the value and permanency of our mines. Numerous investments have been made within the past few months in the mines of Nevsda county; while large purchases have also been made in various other portions of the State. The idea that our quartz veins will give out during the present century is now pretty well abandoned, and the earnest and persistent blows of industry, aided by willing capital, are making rapid inronds into the locks and bars of nature, which stand between man and tbe coveted mineral.

The copper interest is nlso rapidly developing itself into a productive and paying industry. The operetion of smelting, although not fully through its experimental period, is nevertheless making rapid progress, and there is good reason to believe that we shall yet behold it as mucb a success in California as in Swansea. The advocates of cheap food then will eventnally be fully counterhalanced by the increased percentage of the ore obtainable here. As yet, however, the chief portion of our ore finds its way abroad, and hundreds of tons are brought down the San Joaquin for shipment every week. The mines about Copperopolis, and beyond, are turning out better than ever. From Plumas county we also bear good reports. The Cosmopolitan Co., of Genesee Valley, have made arrangements with Messrs. Shields and McClellan to put up smelting furnaces capahle of reducing twenty tons of copper ore every twenty-four hours. The works will be in operatiou tbe comiug fall.

WASHOE.

Copper appears to be attracting considerable attention in Wasboe at this time. Small lots of very rich copper ore are constantly being hrought in from various directions, and it is found tbat nearly all of these contain a considerable amount of gold and silver.

The Gold Hill *News* learns that Treglone & Co., formerly proprietors of the Swansea mill, have purchased the Apple and Bates claim, in Gold Hill proper. This claim consists of thirty-one and a half feet of ground lying next north of the Imperial Company's claim. The miue bas not been worked since the cave last winter, when the shaft was closed up until the new owners took charge a few days ago. Treglone & Co. will put up good substantial machinery and havo the shaft repaired, and be ready to work tbeir rich ledge in a short time.

The Silver Wave ledge, in Mountain Wells district, has been sold to a New York company, who are now erecting a mill for crushing the ore, which is considered very rich.

According to the *Enterprise*, the Ophir company is now daily shipping from the mine thirty-five tons of ore. Of this amount ten tons per day are sent to Fall's mill, Washoe Valley, and yields at the rate of $200 per ton. The remainder is sent to mills on the Carson, at Empire City, and yields about $60 per ton.

The Burning Moscow, of which little bas been heard, according to the *Union*, is about to take its place on the dividend list. Fourteen and a half tons of rock from this mine recently yielded $1,077, or about $70 per ton. The rock was worked in the company's mill, which has recently been erected, with four stamps and Hepburn pans. The mill is pronounced a very fine one for close work. The *Union* says that enough ore of the same class with the above is in sight to last tbe mill of the company at least one year. Mr. A. H. Lissack is Superintendent of the whole works, and has unbounded confidence in tbe mine. Owing to the fact tbat a law-suit is now in progress—or about to be commenced—between this company and the Ophir, it is not likely that more ore will be crushed until after the dispute between the two companies is settled.

Twenty tons of ore crushed at the new mill in Desert district, yielded bullion to the value of $3,000. This result is most satisfactory, and all hands, millmen and miners, will now wade into tbe wealth of the district in good square earnest.

Work is about to he commenced on some of the leading claims in Flowery district. Much confidence is expressed as to the ultimate value of the mines in this district.

The Washoe United Consolideted Gold and Silver Mining, more generally known as the English Company, have completed their magnibcent canal, three and one-half miles in length, and conducted the water of the Truckee through it to their new mill, which is nearly completed. It is said that the company have already investcd $250,000. This is one of tbe heaviest mining enterprises ever undertaken on the Pacific Coast.

The new mill now in course of construction at Dayton for Messrs. Birdsall and Carpenter, under the supervision of Mr. Morgan, is progressing rapidly towards completion.

From the new Truckee mines most favorable reports are being daily received, for not only is the new road being pushed ahend, but the ditch will at once be built, and several mills erected. At Washoe, Ophir and Franktown, affairs are prosperous, and all Weshoe county was never more flourishing.

Recent developments in the coal district on the Truckee show that a very large stratum of fine coal exists at a greater depth than any yet mined. The artesian borer has been put in place, and in a few weeks will be down ten hundred feet. By boring tbey expect to find new seams below the one upon which they have been at work. The seams they have been prospecting afford an excellent article of coal.

REESE RIVER.

Judging from the daily reports in the *Reveille*, we should suppose that there was of late quite an increased degree of activity being exhibited in that locality. We condense from that paper as follows:

The statistics of the Social company's mill for some eight or ten weeks make a most excellent exhibit. The mill, which consists of five stamps, with three pans, working five hands only, has turned out, in sixty-two working days, bullion to the amount of $21,000. The bullion assays $1.42 per ounce—giving seventeen cents of gold. The works are under the charge of Mr. John P. Dougherty, superintendent, and the manner in which they are conducted is highly creditable to his judgment and energy.

Work on the Whitlach mine is about to be resumed. Some time since, while the workmen were taking out ore from an eight-foot vein, worth over $150 to the ton, a large dyke, composed of porphyry and clay, was unexpectedly encountered, which cut the vein completely across at an oblique angle. The end of the fractured vein was found to be as smooth as if it had been cut and polished by a lapidary. Some $25,000 was expended in looking for a continuance of the vein, without success, when the work was temporarily suspended and the sum of $12,000 offered to any one who would re-discover it. Some time since, while Dr. C. T. Jackson was at Reese River, he was called upon to examine the mine, which, as we understand, resulted in advising a change in the mode of search, under which advice work is about to be egain resumed.

The Union mine, situated on the lower grade, has been sold to Major Clymer, who is the proprietor of large iron works in the State of Pennsylvania. It is the intention of the present proprietors to put the mill in working order at once, and to resume the reductiou of ore.

Four mines located in and around Marshal cañon, and known as the Falmouth, Delaware, Montour and Carthage, have been sold to certain parties in New York for the sum of $30,000. These claims were undeveloped. Tbe agent who made tbe purchase had personally inspected tbe mines, and obtained assays of the ore procured from each.

The Santa Clara, one of the oldest localities in Reese River, is being opened by an incline, which is now down 150 feet, with a vein of from six to eighteen thick, exhibiting chloride ore, apparently rich. Sulphurets will probably soon be reached.

Active operations are now in progress upon tbe Chicago ledge, on Oregon Hill, by the proprietors, Messrs. Plumhoff, Martin and Shay. They are sinking an incline, and have taken out ore which has yielded hy mill process as high as $250 per ton.

Tbe Remmington ledge, also upon Oregon Hill, has recently heen purchased hy New York parties, who are putting down an incline under the direction of Mr. Curtis. They are now down 150 feet. Ore from this ledge has yielded as high as $200 to the ton by working process. Chloride has been taken out which yielded as high as $1,000.

In Yankee Blade Camp, work is being vigorously prosecnted on the principal mines. The Confidence company, the Maggie and the Whitlach Yankee Blade are all working, and furnish employment to a large nnmber of mechanics and laborers.

The Mills and Lehigh companies, in San Francisco cañon, have united for prospecting purposes, and are down 115 feet with an incline, at which depth they have opened a well-defined vein, which has yielded, by mill process, $145 to the ton

HUMBOLDT.

Considerable excitement has recently grown out of a somewhat remerkable discovery in Sacramento district. This discovery is known as the Montana ledge and is located abont sixteen miles south west from Unionville, and in the immediate neighborhood of the Bullion ledge, a portion of which has recently been purchased by Ex-Governor Bigler, for a Philadelphia company, as noticed in our issue of the 10th instant. The Montana, as its name imports, is a little mountain of quartz, cropping out about twenty-five feet in thickness and from twenty to thirty feet above the surface, and continuous for full 500 feet in length. It is thought to be one mass of silver ore, such as will yield $50 per ton for the entire ledge. One half of the original location has been sold to Mr. A. Stevenson, agent of a New York company, who designs to erect forthwith a 20-stamp mill, and put the vein at once into good working order. The mill will be put up on the Humboldt river, from which the mine is distant but six miles, with an easy down grade the entire distance. The *Register* thinks this will prove the most important discovery yet made in the State.

The Bullion series of ledges continues to he highly spoken of; it is not yet fully determined hy Gov. Bigler whether he will build his mill at the mine or on the river, six miles distant. A thousand pounds of ore from one of the ledges yielded, by working process, about $50, which amount would have been materially increased by roasting.

Mr. Stevenson, the same gentleman mentioned above as having purchased an interest in the Montana, is now making arrangements to put up a mill on the Ætna mine, the machinery for which is now on its way thither. This mill will be erected at a point which will make it convenient for use as a custom mill.

A lot of 100 pounds of ore from a new ledge recently discovered near Holt's mill, yielded at the rate of $1,400 to the ton. A further test will soon be made with a larger quantity.

The proprietors of the Monroe Series are getting ont a lot of ore from these ledges, which they will take to Fall's mill for crushing. This ore is highly auriferous, and the proprietors have paid living expenses the past winter by crushing selected rock from it in a hand mortar.

A Flowing Oil Well.—Capt. Smith, of the barque Jeanette, which arrived at this port last evening, thirty-six hours from Humboldt, reports to the *Call* of this morning that the Union Mattole Company struck flowing oil in their well five days since. The oil is said to flow over the top of the well in such quantities tbat the workmen, finding it impossible to preserve it, were obliged to plug up the well to prevent it from running to waste. The report is considered perfectly reliable by the officers and members of the company in this city. We trust it may he true in every particnlar.

St. Ignatius College.—We have received the prospectus of St. Ignatius College, of this city, which also contains a catalogue of the officers and students for the academic year of 1864-'65, together with the distribution of the premiums for the 6th annual commencement, held on the 31st ult. The total number of students in the catalogue is 485. The school will re-open for the preparatory class on the 24th instant; for the grammar and higher classes, on the 21st of August.

Dick Morgan, a brother of the ex-rebel leader John Morgan, has been sentenced to the Illinois peuitentiary for life.

Satire should not be like a saw, but a sword; it should cut, but not mangle.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinqnent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment, Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and all other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'D DELINQ'T LIST.	DAY OF SALE.
Ashland, Mono co.		Annual Meeting	July 10*
Alameda Coal, Alameda co., Cal.	$2	June 7	July 15
Adams' Petroleum, Contra Costa,	$25	June 25	July 20
Alpha, Gold Hill		June 1	Caution
Adriatic, Storey co.,	$1.50	July 24	Aug 9
Bolinas, Petroleum, Marin co.,	25c	Aug 5	Aug 19
Bella Vista, Lower Cal,	25c	July 29	Aug 12*
Bacon M. & M. Co.,	$10		Payable May 10
Burning Moscow, Storey co.,	$20	Aug 10	Aug 22
Boston, El Dorado co.,	50c	July 11	July 25
Bamboo, Esmeralda co., Nev.	50c	July 3	July 17
Belcher, Baldwin & Aberacthy		Dividend of $17,	June 3
Bullion	$40		Levied June 6
Best & Belcher		Annual Meeting	July 10
Barreteros, Sinaloa, Mex.,	$5	July 27	Aug 7
Baltimore American, Storey co		Annual Meeting	July 22
Burreteros, Sinaloa		Annual Meeting	Aug 7
Colossal, Lander co			Sale July 20*
Cherokee, Echo District,	75c	July 29	Aug 12*
Caledonia Tunnel, Gold Hill, Nev.,	$3	July 15	July 29*
Confidence,		Dividend, $100 per foot	May 1
Chollar, Storey co., Nev.,	$12½	July 31	Aug 14
Cosala		June 7	Caution
Colo, Storey co.,	$1	July 15	July 28
Conbortita, Sinaloa		Meeting	July 13
Conbortita, Sinaloa, Mex.,	$2.50	July 15	July 27
Chollar Potosi		Annual Meeting	July 10
Cortez, Lander co		Annual Meeting	July 17
Chipioncna, Sonora, Mex		Quarterly Meeting	July 10
Diana, Lander co.,	$2	July 8	July 24
Diana, Lander co		June 7	Caution
Diamond, Del Norte co.,	60c	June 19	July 8
Emilia, Mex.,	50c	July 29	Aug 12*
El Dorado, Alpine co.,	$1	July 15	July 31*
El Alamo de San Antonio, Low Cal.	$1	July 1	July 15*
El Tesora, La Paz,	$1.50	June 30	July 12
Eureka, G. M. Co., Dividend	$2.75		June 24
Franco-Americana, San Antonio,	50c	July 29	Aug 11
Garcia Petroleum, Mendocino co.,	50c	June 24	July 8*
Gould & Curry,		Dividend,	$50 July 6
Gov. Seymour, Lander co.,	$7	June 24	July 10
Golden Age & Empire, Esmeralda,	$2.50	June 28	July 10
Gold Hill Tunneling, Storey co.,	$1	June 30	July 13
Guasaparis, Chihuahua, Mex.	$7.50	June 24	July 8
Gold Hill Tunnelling		Annual Meeting	July 15
Gem of Sierra, Humboldt co., Nev.,	$5	July 12	July 31
Green, Storey co.,	$1	July 22	Aug 5
Gem of Sierra		Annual Meeting	July 22
Green Lode, San Bernardino co.,	$1	July 24	Aug 4
Great Republic, Contra Costa co.,	12½c	July 29	Aug 16
Guadaloupe, Chihuahua, Mex.,	$10	Levied June 26	
Golden Rule		Annual Meeting	July 11
Hanscom, Del Norte co.,	15c	July 22	Aug 5*
Hale & Norcross, Storey co.,	$25	Aug 7	Aug 21
Hibernia, Arizona,	30c	July 4	July 17
Humboldt, Humboldt co., Nev.,	$1	June 28	July 17
Imperial, Dividend,	$10		Payable July 5
Ivasaparis, Chihuahua, Mex.,	$7.50	June 24	July 8
Imperatrice Eugenie, Calaveras co.,	30c	July 1	July 19
I X L, Alpine co.,	60c	June 24	July 8
Jewett, Storey co.,	$1	July 1	July 15*
Kelsey, El Dorado co., Cal.	30c	July 1	July 16*
Kentucky, Calaveras co.,	60c	July 12	July 31
Lord Byron, Devil's Gate		Annual Meeting	July 19*
Lady Franklin, Alpine co.,	50c	July 8	July 28*
Lady Bell, Del Norte co.,	10c	July 10	July 24
La Victoire, Mariposa co		Special Meeting	July 20
La Libertad, Lower Cal.,	50c	Aug 5	Aug 14*
Marathon, Mono co.,	50c	July 15	July 29*
Mammoth, San Bernardino co.,	50c	June 24	July 10*
Mountain Mary, Alpine co.,	50c	June 24	July 10*
Manzanilla, Sinaloa,	25c	June 24	July 8*
Mina Blea de las Flores, Calaveras co.,	$1	July 4	July 24
Mt St Helena, Lake co		Annual Meeting	July 25
Minerva Cons., Gold Hill,	$25	July 31	Aug 15
Mt. Davidson		Annual Meeting	July 12
Nuestra Sen. de Guadaloupe, Durango,	50c	June 25	July 10
Nuestra Sen de Guadaloupe Jalisco,	$5	July 5	July 18
Noble, Calaveras co.,	$6	July 1	July 19
Nevada, Nevada co.,	50c	July 20	Aug 1
Napoleon, Calaveras co.,	$5	Aug 5	Aug 18
Napa, Alpine co.,	60c	Aug 5	Aug 14*
Ontario, Lander co.,	$1	July 18	Aug 4
Overman		Annual Meeting	July 13
Overmau, Storey co.,	$50	Aug 2	Aug 18
Pennsylvania, Lander co.,	$2	July 1	July 17*
Porter, Virginia,	$5	June 24	July 8*
Potosi, Storey co., Nev.,	$25	July 31	Aug 14
Peninsula, San Antonia,	$10	June 30	July 10
Point Arena, Mendocino co.,	50c	June 17	July 10
Patrieina & Dolores, Chihuahua, Mex.,	50c	July 27	Aug 7
Petaluma M. & M. Co., Dividend of 5 ℔ ct			July 5
Puragon, Petroleum, Humboldt co.,	30c	Aug 5	Aug 19
Rose, Mariposa co.,	50c	July 22	Aug 5*
Rose, Mariposa co.,	50c	July 8	July 22*
Refugio, Chihuahua, Mex.,	$2.50	July 20	Aug 3
San Rafael, Lower Cal.,	50c	July 29	Aug 15*
Savage,		Dividend, of $75	May 5
Sheba, Humboldt, Nev.,	$5	June 10	July 15
Santiago		Dividend	May 17
Sides, Storey co.,	$10		Sale July 13
San Lorenzo, Santa Cruz co.,	50c	July 1	July 17
Superior, Alpine co		Annual Meeting	July 10
San Francisco, Del Norte co.,	40c	July 3	July 14
Spring Hill, Novada co.,	$10	July 17	July 28
Salambo, Tuolumne co.,	75c	July 19	Aug 5
Savage, Storey co		Annual Meeting	July 11
Sacramento & Meredith, Storey co.,	50c	Aug 4	Aug 19
Sierra, Douglas co., Nev.,	$2	July 24	Aug 9
Scott M & E, Humboldt co., Nev		Annual Meeting	July 8
Shoshone, Lander co., Nev.,	$1	Aug 7	Aug 21
t. Paul, Lander co.,	50c	Aug 5	Aug 22*

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'D DELINQ'T LIST.	DAY OF SALE.
Table Mountain, Calaveras co.,	50c	July 29	Aug 14*
Triunfo, San Antonio,	$3	Aug 7	Aug 19
Tellurium, Amador co.,	$1	Aug 3	Aug 16
Trinidad & San Jose, Sinaloa, Mex.,	$20	June 25	July 10
Tesoro & James River, Lander co., Nev.	50	July 14	Aug 1
Tecoripa, Sonora, Mex.,	$3 50	Aug 7	Aug 19
United States, Lander co		Meeting	Aug 10
Uncle Sam, Storey co.,	$50	Aug 2	Aug 18
Vulcan, Lander co.,	50c	July 22	Aug 6*
Ventana		June 3	Caution
Valparaiso, Tuolumne co.,	$1	July 6	July 20
Veatch, Lander co., Nev		Annual Meeting	July 11
Whitlach Yankee Blade, Lander co.,	$2	July 1	July 15*
Wide West, Esmeralda co.,	$5	June 24	July 10
Whitlach, Lander co.,	$7.50	Aug 7	Aug 22
Yosemite, Ore Fino dist.,	$1.25	Aug 5	Aug 19*
Yankee Blade, Lander co.,	10c	July 1	July 20*
Yellow Jacket		Dividend of	$100 May
Yellow Jacket		Annual Meeting	July 10

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	*Date of Levy.*	*Am't per foot*
Bullion	June 7	40 00
Bajazette & Golden Era	June 15	3 00
Crown Point	June 3	2 00
Colo	June 11	1 00
Caledonia Tunnel	June 13	3 00
Chollar	July 1	25 00
Davis Consolidated	May 25	50
Globe	May 16	1 00
O H Tunneling	June 2	1 00
Golden Swan	June 7	60
Kentucky	June 17	1 00
Lincoln	July 1	1 00
Mary Ann	June 10	10 00
Morning Star	June 10	50
Minerva	July 1	100 00
Napoleon Consol	June 4	50
Overman	June 10	60 00
Peck	June 7	1 00
Potosi	July 1	25 00
Sierra	June 9	50
Sigel	June 9	50
Sand Springs Salt Co	June 20	6 00
Schiller	June 13	50
Uncle Sam	July 3	60 00

Delinquent Sales.

Name of Company.	*Date of Sale.*	*Place of Sale.*
Arizona	July 5	Virginia
Crown Point Ravine	July 15	San Francisco
Crystal Peak W D L M & M Co	July 15	Virginia
Chrystal Peak Coal Co	July 15	Virginia
Gold Hill Tunneling Co	July 13	San Francisco
Dunn	July 3	Virginia
Oerman	July 6	Gold Hill
Olobe	July 15	Virginia
Imperial	July 6	Gold Hill
Jewett	July 15	San Francisco
Kentucky	July 17	Virginia
Milton	July 8	Virginia
North America	July 8	Virginia
New Oregon	July 3	Gold Hill
Rappahannock	July 3	Virginia
Sides	July 13	Virginia
Siegel	July 12	Virginia
St. John	July 3	Virginia
Schiller	July 11	Virginia
Tyler	July 17	Virginia
Yolo	July 1	Virginia

THE CALIFORNIA TEACHER for July has been received. It contains the July semi-annual apportionment of the school fund, from which we perceive that the total number of white children in the State, between four and eighteen years of age, residing in school districts where public schools have been maintained for three months, during the year ending August 31, 1864, is 86,575. The appropriation is seventy-seven cents each for the six months, making a total of $66,662 75. This valuable periodical appears to be meeting with very good success. It is now made the official school journal of the State of Nevada as well as of California.

SANTA CLARA COLLEGE.—We have received the prospectus of the Santa Clara College, of San Jose, containing a catalogue of the officers and students for 1864-'65; also the exercises of the 14th annual commencement, and the distribution of premiums. A brief notice of this institution and its recent commencement exercises will be found in the letter of our San Jose correspondent, which appears in another column of the present issue. The total number of students connected with the Institution is 184. Its next term will commence on the 28th of August, 1865.

REMOVAL.—The office of the Open Sesame G., S. & C. Company, T. L. Bibbins Secretary, has been removed to 605 Clay street. We understand that active operations are about to be resumed upon this mine.

MECHANICS' FAIR.

DAILY PRESS.

The Proprietors of the MINING AND SCIENTIFIC PRESS having been granted the privilege of printing the DAILY PRESS at the Pavilion, during the approaching Exhibition, are making complete arrangements to publish a full and faithful record of the Grand Exhibition, and will present gratuitously to all visitors and exhibitors the LARGEST, most ATTRACTIVE and VALUABLE paper ever issued at a public fair.

Its Free and Extensive Circulation

will render it a peculiarly desirable journal for advertising. From SEVEN TO EIGHT THOUSAND individuals visited the exhibition last season in a single day and evening.

Our printing press, in active operation, rapidly throwing off an interesting sheet into the very hands of the anxious throng, presents an attractive scene, affording one of the most novel and effective modes of advertising ever offered through the columns of a newspaper. Many persons being eye-witnesses to the printing of the paper, preserve copies as reminiscences of their visit to the Fair, while others procure bound volumes to be retained as a permanent record of the Exhibition, giving a further benefit to advertisers in addition to its wide circulation.

Those wishing to secure space for advertising in the MECHANICS' FAIR DAILY PRESS, will do well to make early application to the proprietors.

DEWEY & CO.,

Patent Agents, Publishers of the Mining and Scientific Press, and Job Printers, 505 Clay street, San Francisco.

U. S. 7-30 LOAN.

By authority of the Secretary of the Treasury, the undersigned has assumed the General Subscription Agency for the sale of United States Treasury Notes, bearing seven and three-tenths per cent. interest per annum, known as the

SEVEN-THIRTY LOAN.

These Notes are issued under date June 16th, 1865, and are payable three years from that time in currency, or are convertible, at the option of the holder, into

U. S. 5-20 Six Per Cent.

GOLD BEARING BONDS.

These Bonds are now worth a premium of nine per cent. including gold interest from November, which makes the actual profit on the 7-30 loan, at current rates, including interest, about ten per cent. per annum, besides its EXEMPTION FROM STATE AND MUNICIPAL TAXATION, WHICH ADDS FROM ONE TO THREE PER CENT. MORE, according to the rate levied on other property. The interest is payable in currency, semi-annually, by coupons attached to each note, which may be cut off and sold to any bank or banker.

The interest amounts to

One cent per day on a $50 note,
Two cents per day on a $100 note,
Ten cents per day on a $500 note,
Twenty cents per day on a $1,000 note,
One dollar per day on a $5,000 note.

Notes of all the denominations named will be promptly furnished upon receipt of subscription. This is

The only Loan in Market

now offered by the Government, and it is confidently expected that its superior advantages will make it

THE GREAT POPULAR LOAN OF THE PEOPLE.

Less than $300,000,000 of the loan authorized by the last Congress is now on the market.

This amount, at the rate at which it is being absorbed, will all be subscribed for within four months, when the notes will undoubtedly command a premium, as has uniformly been the case on closing the subscriptions to other Loans.

In order that citizens of every town and section of the country may be afforded facilities for taking the Loan, the National Bank, State Banks, and Private Bankers throughout the country have generally agreed to receive subscriptions at par. Subscribers will select their own agents, in whom they have confidence, and who only are to be responsible for the delivery of the notes for which they receive orders.

JAY COOKE,
Subscription Agent, Philadelphia.

March 25, 1865. 17v1[U.S.]m

ADDENDUM.

PER OVERLAND TELEGRAPH:

PHILADELPHIA, May 17, 1865

Second Series all sold. Commenced on Third Series. Two Hundred and Thirty Millions ($230,000,000) precisely like other two Series, except dated 15th July, and Government reserves the right to pay six per cent. in Gold instead of 7-30 Currency.

JAY COOKE,
Subscription Agent, Philadelphia.

MEXICAN

TEN PER CENT.

SIX YEAR LOAN.

The undersigned, having a full Power of Attorney from Gen. GASPAR SANCHEZ OCHOA, Commissioner for the REPUBLIC OF MEXICO, as Agent for the sale of the Bonds of this

POPULAR LOAN,

These Bonds will be sold at

Fifty Cents on the Dollar, Gold Coin.

They bear date July 1st, 1865, and are now ready to be furnished in sums to suit, in denominations from $50 to $1,000.

The principal and interest are payable in United States gold coin.

Interest payable semi-annually at the PACIFIC BANK, in the city of San Francisco.

The payment and redemption of these Bonds and Coupons are secured by the transfer to the undersigned, as Trustee, of one-half of the fiscal proceeds of all the

Revenues and Duties

Derived from the Custom Houses of

MAZATLAN,

GUAYMAS,

MANZANILLO,

And all the Ports in the States of

Sinaloa, Sonora and Colima,

AND FROM THE MINES OF SAID STATES,

Which Revenues and Duties, so soon as collected, are to be deposited and held by the undersigned in the

Pacific Bank, San Francisco,

And employed exclusively for the payment of said

BONDS AND INTEREST.

General OCHOA has made an assignment to the undersigned of one-half of all the duties received at the above Custom Houses, for the payment of said Loan and Interest, and also to appoint Agents to receive the above Revenues.

☞ SUBSCRIPTION BOOKS are now open at our Office, Room No. 3, third floor, Masonic Building, No. 420 MONTGOMERY STREET, San Francisco.

SAMUEL BRANNAN,
AGENT.

San Francisco, Cal., July 1, 1865. 1v11-1m

Steam Engines, Etc.,

AT AUCTION,

On Wednesday, July 19th, 1865,

At No. 39 Fremont street, San Francisco,

AT 11 O'CLOCK A. M.,

TO CLOSE AN ACCOUNT.

1 Steam Engine, 5-horse Power.

1 Steam Engine, 10-horse Power.

1 Steam Engine, 15-horse Power.

1 Steam Engine, 25-horse Power.

1 Steam Engine, 80-horse Power.

1 Mortising Machine.

1 Brogardus' Grinding Mill.

The above will be sold complete and in working order. They can be examined at the above place on the day of sale. 1v11-2w

North America

LIFE INSURANCE CO.,

No. 240 Montgomery Street,

SAN FRANCISCO.

The Most Liberal Company

IN THE UNITED STATES.

All Policies Non-forfeitable and Indisputable.

No Extra Charge for Residing in the Territories, or for Traveling to and from the Eastern States.

J. A. EATON & CO.,

Managers of the the Pacific Branch.

MINING LAWS AND FORMS.

Third Edition revised and enlarged.

Compiled by H. H. CONGDON.

THIS Edition contains all the laws of the *STATE OF CALIFORNIA* and *NEVADA TERRITORY*, relative to Mining Corporations together with the Mining Ordinances of Mexico, complete; Digest of Decisions of the Supreme Court; Forms etc. 16 mo. flexible cloth, 192 pp. $2.50.

Published by H. H. BANCROFT & CO.

COMPLIMENTARY.—The London *Times* is profuse with compliments to both belligerents: The civil war need only live in national memory as a grand struggle in which the heroism and endurance of all classes of Americans astonished the world. Neither belligerent need be ashamed of the retrospect. Federals and Confederates alike had maintained larger armies, and fought more desperate battles than any other people. If the South had done more with smaller means, the North had borne up with incredible tenacity against discomfiture and discouragement, and had outstripped imagination by the magnitude of its efforts.

AN OIL CITY.—The City of Erie, Pa., seems to be located over an oil cistern. Wells have been sunk in some of the streets and on vacant lots, from which the oil is pumped out in large quantities.

EDITORIAL CHANGE.—Hon. W. H. Sears, Speaker of the last Assembly, has purchased the Nevada *Gazette* and editorial control of that paper.

A LARGE DITCH.—A ditch sixteen miles long, seventeen feet wide at the top, and running water enough to irrigate three thousand acres of land, has just been finished from the Truckee river to Steamboat Valley, Nevada.

BLASTING

POWDER.

EDWARD H. PARKER,

No. 224 California Street,

Agent of the

Hazard Powder Company.

EUREKA

Patent Blasting Powder.

Price, $3.50 per Keg.

Office, southeast corner Battery and Commercial streets.
Room No. 9, with San Francisco Chemical Works,

CHAS. A. JAMES.....AGENT.

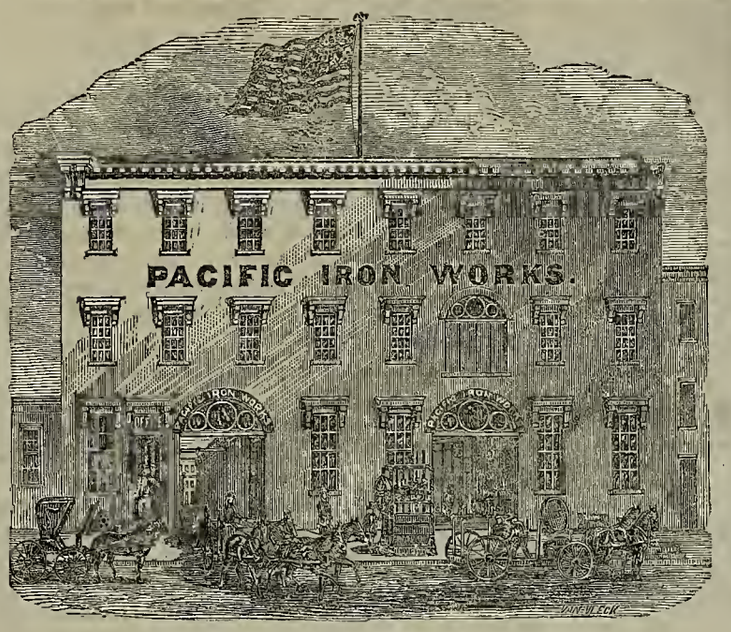
For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 10v10qy

PREMIUMS.

1st Premium, at Sacramento Fair.....1862
1st Premium, at S. F. Bay District....1862
1st Premium at Sacramento.....1863
1st Premium, at San Francisco.....1864
1st Premium, for Cordials.....1864
1st Premium, for Hygienic Bitters....1864
Awarded to
23v9 **V. SQUARZA.**

LEHIGH COAL.

200 Tons Large Lump Lehigh Coal
Now on Hand.
I am also in constant receipt of
LEHIGH COAL,
And will be able to supply it always
At the Lowest Market Price.
JAMES R. DOYLE,
20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.



THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting machinery of the most approved construction, Flour, Saw and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully solicited.

GODDARD & COMPANY.

Machinists and Foundries.

FULTON
FOUNDRY AND IRON WORKS.
HINCKLEY & CO.,
MANUFACTURERS OF
STEAM ENGINES,
Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

MINERS' FOUNDRY
—AND—
MACHINE WORKS,
First St., between Howard and Folsom Streets,
SAN FRANCISCO.

EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as

Steam Engines and Boilers, Flour, Saw and Quartz Mills,
Machinery, Mining Pumps, Amalgamators,
Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.

All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.

tf HOWLAND, ANGEL & KING.

JOHN LOCHHEAD'S
STEAM ENGINE WORKS,
Beale Street, near Mission Street,
SAN FRANCISCO.

Steam Engines of every description built to order—Marine, Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.
25v9q JOHN LOCHHEAD, Practical Engineer.

JOHN P. GALLAGHER. JOSEPH WEED.
GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to. Prices moderate. ☜ No. 125 First street, opposite Minna, next door to Pacific Foundry. 12tf

[Removed from Oregon street, between Front and Davis.]

Vulcan Iron Works Company
[ESTABLISHED 1850.]
First, Natoma and Fremont Streets.
IRON FOUNDERS,
Steam Engine and Locomotive
BUILDERS,
Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as

Mining, Steamship, and Steamboat Machinery,
Railroad Machinery, Flouring Mills,
Locomotives, Quartz Mills,
Car Trucks, Sugar Mills,
Car Wheels, Saw Mills,
Housings and Irons; and
Manufacturing Machinery of Every Kind.

Sole Manufacturers of
HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR
BETH'S AMALGAMATOR;
HERSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;
BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;
FAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;
JONVAL'S IMPROVED WATER WHEEL;
STEVEN'S PISTON PACKING RINGS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.

Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

PORTLAND BOILER WORKS.
MOYNIHAN & AITKEN,
BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, San Francisco. qv29-t

GEORGE T. PRACY,
Machinist and Blacksmith.
EAM ENGINE, FLOUR AND SAW MILL
And Quartz Machinery, Printing Presses,
—AND—
MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

Nos. 109 and 111 Fremont street, near corner of Mission,
OPPOSITE MECHANICS' MILL,
qv-3 SAN FRANCISCO.

LEWIS COFFEY. J. S. RISDON.
LEWIS COFFEY & RISDON,
Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality. Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.
UNION IRON WORKS!
Corner First and Mission streets,
SAN FRANCISCO.
ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.

Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter.

Boilers.

Locomotive, Flue, Tubular, Upright, Cylinder and Cornish.

Amalgamating Machinery.

Wheeler & Randall's improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Beldin's pan, Veatch's tubs, Frater's concentrators, Waklee's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills, Coleman's Crushers, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

Quartz Screens.

We are prepared to furnish both punch and slotted, from the finest to the coarsest numbers, of the best quality Russia Iron.

All work done in the best manner at the lowest cash prices.
21v10 **H. J. BOOTH & CO.**

PALMER, KNOX & CO.,
Golden State Iron Works,
Nos. 19, 21, 23 and 25 First Street,
SAN FRANCISCO.
MANUFACTURE ALL KINDS OF
MACHINERY,
STEAM ENGINES AND QUARTZ MILLS,
DUNBAR'S IMPROVED
Self-Adjusting Piston Packing,
Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.
WHEELER & RANDALL'S
NEW GRINDER AND AMALGAMATOR,
HEPBURN & PETERSON'S
AMALGAMATOR AND SEPARATOR,
Tyler's Improved Water Wheel,
Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.
KNOX'S AMALGAMATORS,
WITH PALMER'S PATENT STEAM CHEST,
Superior for working either Gold or Silver Ores.
Genuine White Iron Stamp Shoes and Dies.

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

IDAHO MACHINE SHOP
—AND—
IRON WORKS,
D. C. HALL.....PROPRIETOR.
No. 9 First Street, San Francisco.
MANUFACTURE TO ORDER
STEAM ENGINES, BOILERS,
FLOUR AND SAW MILLS,
And every description of Machinery, including
ALL KINDS OF BRASS AND IRON WORK
Adapted to every department of Mining and Mechanics.

N. B.—The manufacture of QUARTZ MILLS are made a specialty, and all work done at the above Works guaranteed of the best material and workmanship.
☞ DON'T MISTAKE THE PLACE.
13v10 No. 9 First street, San Francisco.

UNION IRON WORKS,
Sacramento.
WILLIAMS, HEILBRON & CO.,
MANUFACTURERS OF
STEAM ENGINES, BOILERS,
And all kinds of Mining Machinery.
Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.
Front Street, between N and O streets,
6v10 SACRAMENTO CITY.

NOVELTY IRON WORKS,
Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY*. Send for a Circular.

E. T. STEEN.
39 and 41 Fremont, and 42 and 44 Beale Sts.,
SAN FRANCISCO. 21v9tfq

BRICK VS. IRON.—The late conflagration in Richmond developed a curious fact. Some week or ten days after the fire, the iron safe of the *Enquirer* office was opened, when immediately on the admission of the air the books and papers were ignited and consumed. And such was the case of all other safes which were not in brick vaults. In these the contents were uninjured, The *Enquirer* safe, at the time it was re-opened, was cold, externally, to the touch.

DEATH OF BISHOP POTTER.—The Right Rev. Alonzo Potter, Bishop of Pennsylvania, died at 10 o'clock A. M, on the 4th inst., on board the steamer *Colorado*, lying in this harbor. Bishop Potter, accompanied by his lady, made the voyage around Cape Horn as passengers on the *Colorado*, and maintained excellent health until arriving off Cape St. Lucas, where the Bishop was seized with an attack of the Mexican Coast fever, which terminated fatally, as above stated, in the sixty-fifth year of his age.

A FINE CABINET.—Capt. J. M. Aiken, of Coulterville, Cal., is the possessor of a beautifully constructed cabinet, formed of seven different kinds of California wood, and containing four hundred phials of one hundred and thirty different minerals, including quartz and placer gold, silver, coal, several petrifactions, California agate from the Merced cinnabar, nickel, lead, copper, etc., and all collected in this State.

ENGLISH sportsmen are beginning to name their race-horses after the famous battle-fields of our civil war. Among the favorites we find those of Chattanooga, Richmond and Antietam.

IT is said that rose bugs will resort to the flowers of rhubarb in preference to any other plant, and that consequently grapes, etc., may be saved from their ravages by planting rhubarb among the vines.

THE BEST BOOK

—FOR—

MINERS, PROSPECTORS AND MILLMEN.

Nevada & California Processes

—OF—

SILVER AND GOLD

EXTRACTION,

For General Use,

BY GIUDO KÜSTEL,

Mining Engineer and Metallurgist—Formerly of the Ophir Works,

IN ONE HANDSOME OCTAVO VOLUME.

SYNOPSIS OF THE WORK.

PART FIRST.

Chapter 1st—Treats of the methods of recognizing silver and gold ores, and contains a "Systematic Proceeding" for their determination by blowpipe analysis readily learned and practised, and is a reliable and accurate guide.

Chapter 2d—Is a description of gold and silver ores, describing many interesting occurrences in minerals belonging to the Comstock, Gold Hill, Humboldt, and Arizona Mining Districts.

Chapter 3d—Describes the requisites and approved methods for testing and assaying—with illustrations.

Chapter 4th—Speaks chiefly of the extraction of gold, especially the amalgamation treatment of ores in batteries, pans and arrastras; and also the extraction of gold by chlorination.

Chapter 5th—Is replete with valuable information on the extraction of silver, including divisions of processes employed. The behavior of chemicals by the wet process; the same when calcined—with valuable hints to attendants roasting ores. Full description for the cold and melting processes, etc.

Chapter 6th—Makes mention of the most modern utensils and machinery, such as pans, agitators, furnaces, etc., with comprehensive diagrams.

PART SECOND.

ON GENERAL METALLURGY.

Chapter 1st—Treats of many species of argentiferous ores; the dry assays of rich and poor ores; also, the same by the humid and dry methods.

Chapter 2d—Presents a clear and comprehensive description of the extraction of silver either by melting or amalgamating process—its dissolution and final precipitation—with divisions of the principal modes of extraction employed.

Chapter 3d—This last chapter gives full and precise formulas for the extraction of the metals in the dry way; the various modes employed in Europe and South America.

The "Amalgamation in pans" with chemicals, or dry method by calcination or roasting ores, forms the most valuable portion of the work; the same being thoroughly and distinctly described and explained, and particularly designed for the treatment of ores in Lower California, Arizona, Mexico, and other mining districts where argentiferous lead ores abound. No less valuable and important are the practical descriptions and illustrations of cupellation and refining of silver, and concentration of the same in lead, by the Pattinson and other processes.

This Work is invaluable to Prospectors, Miners, Metallurgists and Mill-men throughout the Pacific States, containing valuable formulas for the treatment of ores and minerals, expressly prepared in an authentic manner and a plainly written style, for persons engaged in mills in California, Washoe, Lower California, etc. It is also valuable to prospectors and miners unacquainted with mineralogy, having a full and clear chapter on Blowpipe Assays and Tests.

☞ That it may be within the reach of everybody, the **the price has been reduced to FIVE DOLLARS**

Copies sent by mail, postage paid, on receipt of price. Address orders to the Publishers,

A. ROMAN & CO.,

Booksellers, Importers and Publishers,

19-2m 417 and 419 Montgomery street, San Francisco.

THE

WHEELER & RANDALL

Grinder and Amalgamator.

In the engraving on the opposite page, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Plates.

The attention of the Public is respectfully called to these facts:

1st. That the Mechanical work accomplished by differently formed grinding plates, having the same diameter, weight, hardness, and revolving at the same velocity, is as follows, to wit:

The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory-formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

2d. That as a whole, the Wheeler & Randall Grinder and Amalgamator is one of the most simple, compact, substantial, convenient and efficient pans in use.

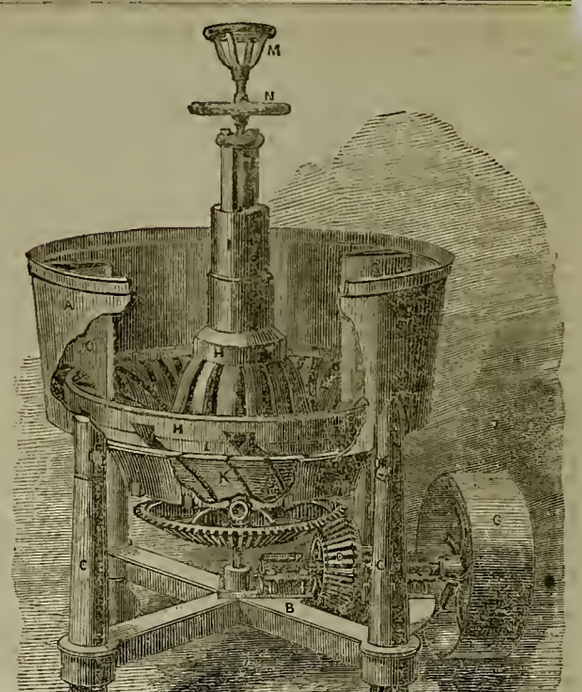
☞ Patent applied for.

MANUFACTURED AT

GOLDEN STATE IRON WORKS.....San Francisco.
UNION IRON WORKS..... "
MINERS' FOUNDRY..... "
SAN FRANCISCO FOUNDRY..... "
PRESCOTT & SCHEIDEL.....Marysville.
OREGON IRON WORKS.....Portland, Oregon.

WHEELER & RANDALL, Inventors.

SAN FRANCISCO, JUNE 13, 1865.



THE EXCELSIOR

GRINDER AND AMALGAMATOR.

In the engraving on the opposite page, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and o, Openings.

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity, "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing exceeding reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

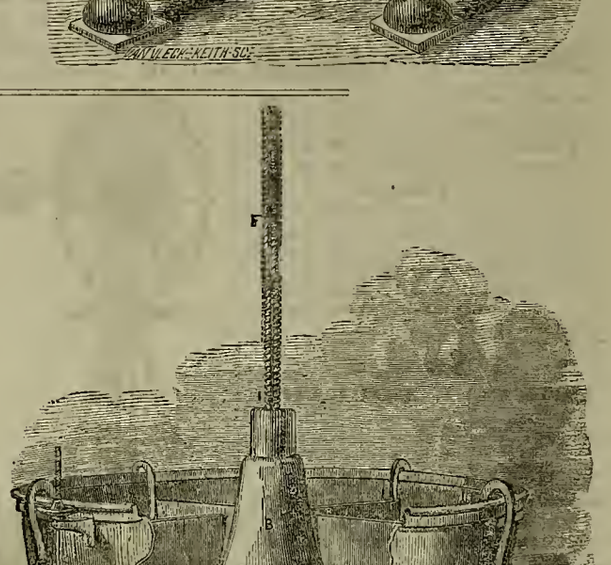
Union Iron Works and Golden State Iron Works,

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.



SAN FRANCISCO

CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at TUBBS & CO.'S,

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14v10

QUICKSILVER

FOR SALE BY

S. F. BUTTERWORTH,

Northwest cor. Battery and California sts.

v9-19 SAN FRANCISCO.

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSIT ON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and fines, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery, or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street, above First (opposite the Oriental Hotel), San Francisco

23v10

WE ARE NOW OFFERING OUR IMMENSE STOCK

—OF—

FINE CUSTOM MADE CLOTHING

—AND—

Gents' Furnishing Goods

AT PRICES THAT DEFY COMPETITION.

Our Stock of Clothing Consists of

ALL THE LATEST STYLES

BOTH OF MATERIAL AND FINISH.

A Large Assortment of

Trunks, Valises, Carpet Bags, Blankets, Etc.,

AT EXTREMELY LOW PRICES.

J. R. MEAD & CO.,

8v10 Cor. of Washington and Sansome streets.

Let it be Known.—When any of our readers respond (by letters of inquiry or by the purchase of articles) to advertisements found in our columns, they will confer a favor, not only upon us, but upon the advertiser, by mentioning the fact of having seen the notice in our paper.

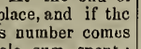
NEW METHOD OF BUYING AND SELLING.—A Paris letter describes a most extraordinary revolution in the ordinary course of affairs which is about to be inaugurated. On the site of the old Theater Lyrique a huge building is in course of construction by a company of tradespeople, who are about to start a new principle in the art of buying and selling.

There will be sold in this gigantic warehouse every imaginable article of food, dress, furniture, ironmongery, etc. The purchaser, on paying for his goods, will be handed a receipt, which he will keep, until, by successive purchases, he has receipts for one hundred francs, (£4,) on presenting which the company will exchange these for that sum. At the end of every year a lottery will take place, and if the purchaser be in luck, and his number comes out, he will be repaid the whole sum spent; but if Dame Fortune be not propitious, he may have to wait fifty-nine years to recover the money he has spent. Thus, if I buy a coat, price £4, at the end of two years, if I am fortunate, my £4 is paid back to me, or to my grandson, A. D. 1923. This sounds awfully like a joke, but the company is positively formed; it starts with a capital of 20,000,000 francs, and has paid down three millions for ground purchased.

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Pacific Mail Steamship Co.

The following Steamships will be dispatched on the following named days.



July 18th—GOLDEN CITY.....Capt. W. F. Lapidge.
August 3d—COLORADO.....Capt. ———

From Folsom street Wharf

At 11 o'clock A. M., punctually to the hour,

For Panama.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A Baggage Master will be sent through each trip.

Cabin passengers will be berthed for Atlantic steamer.

OLIVER ELDRIDGE, Agent.

Corner Sacramento and Leidesdorff sts.

HOMESTEAD
FOR FIVE DOLLARS.

There being so many persons who were unable to get one of our HOMESTEAD LOTS in the

New City of Newport,

At the time of our Excursion on the 11th of June, 1865, the Directors have voted to sell

ONE HUNDRED LOTS MORE

At the same price, which is FIVE DOLLARS EACH, and

No Charge for the Deed.

☞ Office Newport Land Company, No. 511 Sacramento street, where plans can be seen and lots selected. 24v10 1m

Machinery.

McCOMB'S
CUMULATIVE POWER PRESS
AND
ARROW TIE.

E. C McCOMB, Agent.

No. 1 Government House, cor. Sansome and Washington sts. 23v10 3m

NOTICE.

The undersigned having purchased the EXCLUSIVE RIGHT in and for the State of California, for the

Manufacture and Sale of

WINHAM'S
PATENT HOSE COUPLING,

Hereby caution all parties against the manufacture or purchase of the above Hose Couplings, except through us, as any infriegement will be prosecuted to the full extent of the law.

PRESCOTT & SCHEIDEL,
Marysville Foundry.

March 31st, 1865. 13v10-3m

HANSCOM'S CRUSHERS,

Made in sizes suitable for Breaking Quartz for Batteries; Rock for macadamizing or concrete; Copper Ore for sacking, sampling, or concentrating; also, for crushing Quartz for Arastras and Grinders. The small sizes make a most efficient Crusher for Prospectors, and are arranged to be run by Hand, Horse, Water, or Steam Power. For further information address W. W. HANSCOM.

1 Golden State Iron Works, San Francisco.

HUNT'S PATENT
Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,
7v10 26 Second street, San Francisco.

THE HAMMER QUARTZ MILL.

[PATENT APPLIED FOR.]

This Machine is now complete and ready for sale. In constructing it, our aim has been to produce a light, cheap and economical Crusher—one adapted to mining on a small as well as on a large scale.

The elementary principle on which it operates is that of the stamp—the only one really reliable and economical.

But the stamp has many serious disadvantages, among which are its great weight and small velocity; the great power required to run it; difficulty in feeding properly; imperfect discharge, and the necessity of crushing wet, or the annoyance from dust in crushing dry.

All these difficulties are obviated in our machine, and the percussive blow of the stamp retained, with the further advantage of its being a drawing or grinding one.

We give to our hammers such absolute or relative weight and velocity as we choose—just such as to effect their purpose and no more—thus securing the qualities of the natural hammer blow.

The feed is self-adjusting and uniform, and as fast as the ore reaches the required degree of fineness (which depends upon the fineness of the screen or sieve used), it is instantly discharged, so that there is no packing of the ore under the hammers.

The mill crushes dry, with no more dust than that incident to feeding, which is trifling.

As the only support of the mortar is a single post set into the ground, the machine can be put in place at slight expense.

The size now being built weighs about 1,800 pounds complete; the heaviest piece not weighing over 275 pounds. It is driven by half a horse-power, and crushes from three to ten tons per day of twenty-four hours per day, according to the character of the rock and the fineness to which it is reduced.

PRICE,.....$800.

Larger ones will be furnished if desired.

We invite an inspection of the Mill now in operation adjoining the Foundry of DEVOE, DINSMORE & CO., on Fremont street, between Market and Mission, San Francisco.

Office, No. 11 Court Block, San Francisco, Cal.

21v10 **RIX & LOGAN.**

ATWOOD'S
Self-Regulating Windmill.

This Windmill is the most perfect self-regulator yet invented, and is capable of being adjusted to any desired speed. Manufactured at

222 Mission Street, North side, below Beale,
SAN FRANCISCO.

N. B.—We also manufacture DICKERSON'S SELF-REGULATING MILLS; also, Rotary and Stationary Mills of different styles and prices, varying from $50 to $500 each; also round and square Water Tanks made to order.

222 Mission street, below Beale. 5

HUNT'S
IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN
HORSE POWER
For Sawing Wood.

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,

No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

PETROLEUM OIL WELLS.

HENRY STEELE,
MANUFACTURER OF ALL SIZES OF
Tools for Well Boring.

Having had long experience in this line, I am prepared to fill orders promptly and at low rates. No. 107 Leidesdorff street, between California and Sacramento, San Francisco. 21v10-1m

SALMON'S
PROPELLER AMALGAMATOR.

The proprietors and inventors of this machine, after fourteen years of practical experience in mining in California and Nevada Territory, and having a thorough knowledge of the wants of Miners and Mill men, have succeeded in making an Amalgamator, which, for the purposes intended, far surpasses any other yet presented to the public, and which can be furnished at less than one-half of the expense of any other Amalgamator, now in use, besides requiring less labor to clean up and keep it in running order. The Amalgamator is simple in its construction, consisting of a pan or tub constructed of wood and adapted to either a Stone or Iron bottom. Opposite each other, and on the inside of the tub, are two flanges, from two to four inches broad, reaching from the top to near the bottom, with room for the mullers to pass under. These flanges are for the purpose of preventing the pulp from forming a circular current, and together with a number of wings placed like a screw propeller on the muller-shaft, force a current continually on the quicksilver at the bottom and under the grinding surface of the mullers. This peculiarity of propeller-screw and side wings, in combination with a deep tub, are what the proprietors claim as new and for which a patent has been applied for. The undersigned are now manufacturing three different sizes of this machine, and the attention of the public is respectfully called to the following results obtained, from the working of Reese River rock, by this amalgamator, and assayed by Miller & Linbaum, at Austin, Nevada:

No.	Fine	No.	Fine
Assay.....250	913	Assay 300	990
Assay.....283	941	Assay for Croiman	980
Assay.....286	940	Assay Water Rock	966
Assay.....291	950	Assay Water Rock	998
Assay.....		.....St. Helena Ledge, W. D.	966

These, including a hundred other batches, were all worked to within fifteen per cent., and some to within ten per cent., of the assay. Parties interested will find it to their advantage to call and see the above machine in operation.

Manufactured at the San Francisco Foundry, San Francisco, California, by

J. & W. C. SALMON,

To whom all orders should be addressed. 15

TO QUARTZ MINERS.

Hinkle's Centrifugal Pulverizer and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUGAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steen, Nos. 37 & 39 Fremont street, between Market and Mission streets.

This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine, made entirely of iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

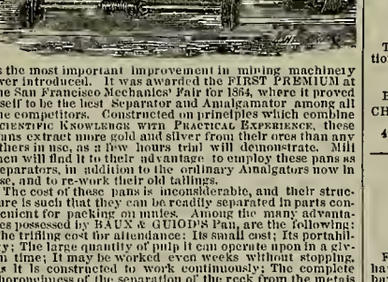
Mr. Hanson, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 60 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to

PHILIP HINKLE,

At the Novelty Iron Works, Nos. 37 & 39 Fremont street. 15-1m

BAUX & GUIOD'S
Separator & Amalgamator



Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; its small cost; its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

Lapidaries' refuse, Refiners' ashes, Jewelers' sweepings, purchased or worked for a percentage. Ores and tailings worked or assayed at reasonable rates.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Hengh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,

Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8

FARRAND'S
Oscillating Amalgamator,

RECEIVED THE
ONLY PREMIUM
AWARDED FOR AMALGAMATORS
At the Recent Industrial Fair
OF THE
Mechanics' Institute of San Francisco.

Committee of Awards.

O. BELDEN,	W. T. GARRATT,	H. P. WAKELEE,
O. GORI,	GEO. JOHNSON,	C. M. RADCLIFF.

This Premium Amalgamator was placed on trial, at the Mechanics' Pavilion, with the Varney, Wheeler & Randall, and Hepburn & Peterson Pan, each working eight hundred pounds of crushed rock.

This Unrivaled Amalgamator possesses many advantages over all others now in use.

1st. It is capable of doing double the amount of work of the ordinary Pans, at a saving of more than one-half of the power.

2d. It reduces the pulp finer, thereby producing a better result.

3d. It requires less quicksilver by one-half at a charge, whilst the loss by trituration is comparatively nothing.

4th. As an Amalgamator of gold contained in sulphurets as it is for very fine or flour gold, it has no equal.

5th. This Amalgamator involves no complicated machinery, and is less liable to get out of order than any of the pans.

Manufactured at the MINERS' FOUNDRY.

W. D. FARRAND, Inventor,

R. L. OGDEN, Agent, SAN FRANCISCO.

S. E. corner Montgomery and California streets.

19v9

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Crocodile Quartz Crusher; his Pulverizer; and his improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

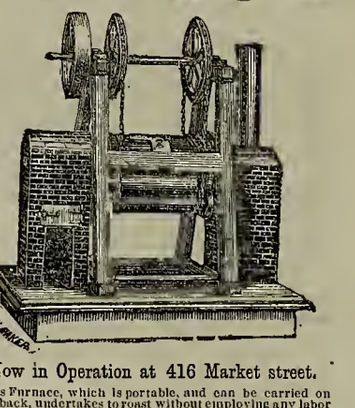
B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. **B. FAUCHERY,** Engineer,

24v9

WM. BRUCKNER'S
Furnace for Roasting Ores.



Now in Operation at 416 Market street.

This Furnace, which is portable, and can be carried on muleback, undertakes to roast without employing any labor whatever for the operation of stirring, which is accomplished by machinery that may be driven by steam or any other motor. It consists of an iron cylinder, which, being suspended by chains, in rotating mixes and stirs the ore, by an internal apparatus, quicker and more perfectly than can be done in any other furnace hitherto known in metallurgy. It can be applied to any kind of ore, and the rapidity and perfectedness of its operation, the great saving in fuel, and the entire saving of the labor usually required for stirring the ore, together with the small cost of constructing it, renders this furnace a most

Economical and Practical Invention.

The Furnace may be had of two sizes—one being nine feet in length and holding fourteen hundred pounds, and the other six feet in length, and holding eight hundred pounds. One horse power is required to drive the machinery of the larger sized furnace, and three-fourths of a horse-power for the smaller size. Parties wishing to erect such furnaces will please communicate to

W. BRUCKNER,

5v10 No. 416 Market street, San Francisco.

BLAKE'S
QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA,
WASHOE,
ENGLAND, FRANCE,
—— AND ——
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned.

Address,

BLAKE & TYLER,

Box 2077 San Francisco Post Office.

CHAS. T. BLAKE,	E. TYLER,	WM. F. BLAKE,
Idaho City.	Michigan Bluff.	San Francisco.

4v10

VARNEY'S
PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setters made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setters for themselves, at the **PACIFIC FOUNDRY,**

1v10 San Francisco.

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th. [Illustrated in the Mining and Scientific Press, April 9th, 1864.]

nov8 3m* HEPBURN & PETERSON.

Professional Cards.

S. C. BUGBEE & SON,
ARCHITECTS.
DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.
74 and 75 Montgomery Block,
SAN FRANCISCO. 25v10-3m

DR. H. AUSTIN,
DENTIST,
No. 634 Washington Street,
Between Montgomery and Kearny Streets,
[OVER SAN FRANCISCO BATHS]
SAN FRANCISCO. 20v10-qy

To Mining Companies.
A gentleman who has had many years experience in Mining Superintendence, wishes employment in a first-class mine as Superintendent. The most satisfactory references given. Enquire at this office. 16v10-tf

N. LOMBARD INGOLS,
Accountant and General Factor,
No. 32 Montgomery Block.
Address, Box 2128, Postoffice, San Francisco. 9v10

A. S. EDWARDS. JAMES N. OLNEY.
EDWARDS, OLNEY & CO.,
Real Estate, Stock, and General
Auction & Commission House,
No. 626 Montgomery Street, Montgomery Block.
JAMES N. OLNEY—Auctioneer.
SECRETARIES of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

AUGUST KUNAST,
Stock Broker,
Member of the
San Francisco Stock and Exchange Board,
Buys and Sells Stocks, Bonds, Etc.
Office, No. 540 Washington Street, San Francisco. 2v10

G. F. DEETKEN,
Mining Engineer and Metallurgist,
Address - - - - - San Francisco. 25v9

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for the State of Nevada and the Territory of Arizona,
AND FOR THE
STATES OF MASSACHUSETTS AND MAINE.
Office, Montgomery Block, 626 Montgomery Street,
10v8-2m SAN FRANCISCO.

FREDERICK MANSELL.
Mechanical & Architectural Draughtsman,
No. 422 California street, corner of Leidsdorff.
Drawings of MODELS made for parties applying for patents at Washington or London. mar23-tf.

GEORGE H. BAKER,
Lithographer & Engraver,
No. 523 Montgomery St., San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

SHERMAN DAY,
Mining Engineer,
No. 56 Montgomery Block, San Francisco,
Will examine, survey and report upon mines, and consult and advise concerning investments in mining property, or the machinery management and expenditures of mines.
22q*

LEANDER RANSOM,
Civil Engineer and Surveyor,
Having been connected with the public works of the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also STATE LOCATING AGENT, and as such having the sale of
600,000 Acres of State School Lands,
At the low price of $1.25 per Acre. Terms: Twenty per cent in cash and the balance on a credit of several years.
7v9-tf Office, 328 Montgomery street.

SKETCHING FROM NATURE.
I guarantee to teach any person to
Sketch from Nature Accurately
In one or two Lessons,
WITHOUT THE AID OF INSTRUMENTS.
Addresses for C. ELVEENA to be left at A. CENSOUL'S, 511 Montgomery street, or at his Studio, 506 Battery street, opposite the Custom House, in the old United States Circuit Court, every day from 1 P. M. to 9 P. M. Tuition for Landscape Sketching from Nature, $10.
REFERENCES, BY PERMISSION—F. B. Austin, Esq.; Dr. Isaac Rowell; Dr. W. F. Hale; Daniel Lunt, Esq., Secretary of the Board of Education; C. W. M. Smith, of the Mining and Scientific Press; Dr. Lyon; Dr. B. F. Josselyn; Capt. Galloway; Dr. John B. Pilkington; W. Bell, Esq., Brannan street; Dr. E. C. Newell, California street; E. C. McComb, Esq., Government House; M. Flood, Esq., 428 Kearny street, and three hundred others. 21v10

Trades and Manufactures.

EDWARD BOSQUI & CO.,
PRINTERS,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
No. 517 Clay street, between Clay and Sansome streets,
SAN FRANCISCO. 24v10

GUSTAVUS MEYER,
(LATE METER & FEIFERTH)
Maker of Models for Inventors and Mining Tools.
MANUFACTURE Assayers' Scales, Weights, and all articles used by Assayers; Mathematical, Optical, and Mining Instruments repaired and adjusted; Patterns, Small Steam and Air Engines (of the newest construction), and Hydraulic Pressure Pumps, made to order.
No. 531 Market street, opposite Sansome, San Francisco. 21v9-tiq

BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery and Sansome, San Francisco. 4v8-tf

JOHN DANIEL,
(SUCCESSOR TO O. GORI)
MARBLE WORKS,
No. 408 Pine st. bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs,
Etc., On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco.
Barstow's Metallic Burial Caskets and Cases.
1tf

THEODORE KALLENBERG,
Maker of Models for Inventors.
MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
No. 418 Market street, San Francisco. n7-tf

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Penn.
JARVIS JEWETT, AGENT.
629 Washington Street, San Franc l. 10v3-1m

DENIS WHELAN,
Fashionable Boot Maker.
REPAIRING NEATLY DONE, AT SHORT NOTICE.
No. 17 Fourth Street,
Near Market street, San Francisco.
15v10-1m*

HATS, HATS.
The Largest Assortment
—OF—
HATS AND CAPS
—IS AT—
Meussdorffer's Hat Manufactory,
635 and 637 Commercial Street,
Between Montgomery and Kearny,
SAN FRANCISCO,
WHICH HE OFFERS FOR SALE
WHOLESALE AND RETAIL.

GISBORNE'S
Anti-Fouling and Anti-Corrosive
Patent Paint,
For Covering Ships' Bottoms and all Iron Work.
T. B. SHERMAN & CO.,
Sole Agents for California and Pacific Coast,
Corner of Market and First street, San Francisco,
19v10 With MARSH, PILSBURY & Co.

LIQUID SLATING
For Blackboards.
Just Received, 20 Gallons.
Schools can now be supplied with this important article.
ALSO WITH MAPS, CHARTS, ATLASES,
And Every Variety of School Furniture.
WARREN HOLT,
11v10-3m No. 805 Montgomery street, San Francisco.

Wanted.
GOLD QUARTZ
Suitable For Cutting Jewelry,
By FRONTIER & DEVIERCY,
19v10-2m 437 Pine street, San Francisco.

CHICO AND IDAHO STAGE LINE
U. S. MAIL ROUTE.
FROM CHICO TO RUBY CITY.
Fare, $50!
Provisions and Blankets packed free of charge.
STAGES LEAVE CHICO EVERY MONDAY, WEDNESDAY and FRIDAY, via Susanville and Surprise Valley, for Ruby City, in the Owyhee and Boise mines.
This is the nearest and best route connecting California and Idaho, being less than one-third the distance by way of Oregon.
Passengers should secure Tickets before leaving San Francisco or Sacramento, so as to get off on the first stages departing after their arrival at Chico.
Fare from Sacramento to Chico, $11.
FRED. D. ROBINSON, Agent.
Office at American Exchange, San Francisco.
C. J. SHAW, Agent, Sacramento.
Offie corner K an front streets (with California Stage Company). 22v10

REMOVAL!
R. WEGENER,
Accountant and Mining Secretary,
Has removed to
No. 415 Montgomery Street—west side,
Between Sacramento and California sts.,
5v10 SAN FRANCISCO.

New Mining Advertisements.

La Libertad Gold and Silver Mining Company, Cacachillas District, Lower California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 27th day of June, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 14th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. VALE, Secretary.
Office, 36 Exchange Building, San Francisco. Jy8

Lady Franklin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 3, levied on the 10th day of July, 1863, and assessment No. 4, levied on the 3d day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Assessment No. 3, levied July 18th, 1863.

Names.	No. Certificate.	No. Shares.	Amount.
Wm Fido (lecator)	not issued	12	$3 00
J G McCauley "	not issued	12	3 00
W T Turner "	not issued	25	6 25
Wm Mercer "	not issued	40	10 00
J H Jacobs "	not issued	25	8 25
Jno Bardsley "	not issued	15	3 75
Crowson Smith	not issued	11	3 75
Estate of H'y Mercer	not issued	15	3 75

Assessment No. 4, levied June 3d, 1865.

Jno G McCauley (loc.)	not issued	12	8 00
Wm Fido "	not issued	12	6 00
W T Turner "	not issued	25	12 50
Wm Mercer "	not issued	40	20 00
C Larson "	not issued	82½	41 25
James H Jacobs "	not issued	25	12 50
Crowson Smith "	not issued	11	5 50
Estate of H'y Mercer	not issued	15	3 75
John Bardsley, (loc.)	not issued	15	3 75
John G McCauley	33	7	3 50
T K Wilson	49	3	1 50
T K Wilson	50	2	1 00
Wm Mercer	cer 57, 20 shs cer 58, 10 shs; cer 59, 10 shs cer 60, 10 shs; cer 61, 5 shs cer 63, 5 shs; cer 64, 5 shs cer 65, 5 shs	70	35 00
A J Field	178, 5 shs; 181, 2½ shs	7½	3 75
Mrs M A Harris	73, 5 shs; 74, 5 shs	10	5 00
Josiah Legro	117, 5 shs; 157, 5 shs 167, 10 shs; 169, 2 shs	22	11 00
Thomas Odgers	139	4	2 00
Henry Odgers	172	4	2 00
Daniel Odgers	173	4	2 00
T G Burns	175	6	3 00
J F Davis	162	1	50
Maria Silverberg	164	3	1 50
G C McAllister	159	3	1 50
G C McAllister	180	2	1 00
A H Powers	174	10	5 00
Jas Porteous	75, 5 shs; 76, 5 shs	10	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 3d day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the office of the Company, 305 Montgomery street, corner of Pine, San Francisco, on the 28th day of July, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. S. LUTY, Secretary.
Office, 305 Montgomery street, San Francisco. Jy8

Napa Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.—Assessment No. 5.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of June, 1865, an assessment of sixty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the company, or to S. A. HAWKINS, Superintendent, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 14th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary,
Office, No 419 Montgomery street, San Francisco.

NOTICE.—At the above meeting it was ordered that Assessments No. 1, 2, 3 and 4, levied July 1st, 1863, of 10 cents; August 24th, 1863, of 10 cents; October 27th, 1863, of 10 cents, and October 17th, 1864, of 30 cents, be and the same are rescinded, and stockholders having paid said assessments, or any portion, to be credited on Assessment No. 5 accordingly. (Jy8) J. WARREN CLARK, Secretary.

St. Paul Gold and Silver Mining Company, Amador District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of June, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 22d day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. DUPERU, Secretary.
Office, No. 710 Sansome street, San Francisco. Jy8

Office of the United States Gold and Silver Mining Company, San Francisco, Cal.—Location of Mines: in Santa Fe and Ravenswood Mining Districts, Lander county, Nevada.

Notice is hereby given, that in accordance with a resolution of the Board of Trustees of the above named Company, passed on Wednesday, the fifth day of July, 1865, and in accordance with the by-laws of said Company, a meeting of the stockholders of the above named Company will be held at the office of the Company, No. 605 Clay street, in this city, on Thursday, the tenth day of August next, at 7½ o'clock P. M., for the purpose of authorizing and empowering the Trustees of said Company to sell one or more of the mines belonging to the said United States Gold and Silver Mining Company, and for the purpose of changing the by-laws of the same, and for the transaction of any and all business that may legally come before the meeting. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.
San Francisco, July 5, 1865. jy8-5w

Yosemite Silver Mining Company, Oro Fino District, Humboldt county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 3d day of July, 1865, an assessment of one dollar and twenty-five cents ($1.25) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to D. H. CREWE, No. 402 Front street (up stairs), San Francisco, or to JAS. T. MACLEAN, Superintendent, at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 19th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

S. O. PUTNAM, Secretary,
San Francisco, July 3, 1865. jy8

Yankee Blade Tunnel and Colossal Silver Mining Companies, Reese River District, Lander county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 1, levied on the 12th and 15th day of January, 1864, and assessment No. 2, levied on the 1st day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

YANKEE BLADE TUNNEL COMPANY.

Assessment No. 1—levied January 15th, 1864.

Names.	No. Certificates.	No. Shares.	Amount.
C B Harwood	not issued	200	$100 00
T F Gould	not issued	200	100 00
M H Farley	not issued	15	7 50
W Holt	16 39-100 ea	200	100 00
A Strobridge	20 21 23 24 25 26 27 29 31 32 33 34 35 36-5 ea	70	35 00

Assessment No. 2—levied June 1st, 1865.

C B Harwood	not issued	200	$20 00
C B Harwood	8 10-50 ea	100	10 00
W E Greenwell	5 6-150 ea	300	30 00
J F Derkin	not issued	100	10 00
W Holt	16 39-100 ea	200	20 00
H H Moore	12 13-150 ea	300	30 00
J B Munn	14 15-20 ea	40	4 00
M H Farley	not issued	15	1 50
A Strobridge	20 21 23 24 25 28 27 29 31 32 33 34 35 38-5 ea	70	7 00
John A Cook	not issued	300	30 00
T F Gould	not issued	200	20 00

COLOSSAL SILVER MINING COMPANY.

Assessment No. 1—levied January 12th, 1864.

Names.	No. Certificates.	No. Shares.	Amount.
C B Harwood	not issued	80	$40 00
W Holt	cert. 22, 100 shares cert. 29, 138 shares	238	23 80
H H Moore	not issued	268	134 00
Samuel Moore	not issued	5	2 50

Assessment No. 2—levied June 1st, 1865.

W E Greenwell	cer. 6, 68 shs cer. 4 and 5-100 shs ea	238	26 80
W Holt	cer. 22, 100 shs cer. 29, 138 shs	238	23 80
T F Gould	18	30	3 00
A Grimm	1	25	2 50
F V Mediaa		25	2 50
J B Roberts	3	100	10 00
H A Harding	cer 10, 100 shs cer. 11, 50 shs; cer. 12, 30 shs	180	18 00
C H S Williams	9	180	18 00
Torner Cowing	cer 13, 100 shs cer. 14, 5 shs; cer. 15, 30 shs	180	18 00
J B Munn	20 21-20 ea	40	4 00
John Whalen	28	5	50
John A Cook	not issued	268	26 80
Samuel Moore	not issued	5	50
C B Harwood	not issued	80	8 00
C B Harwood	7 8-50 ea	100	10 00
H H Moore	not issued	288	26 80

And in accordance with law, and an order of the Board of Trustees, made on the 1st day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the office of said companies, No. 305 Montgomery street, San Francisco, on the 20th day of July, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. S. LUTY, Secretary.
Office, 305 Montgomery street, San Francisco. jy1

Our Advertising Circular Will be furnished free on application to this office. Its contents are as follows:

Corporation Assessment Law of California.
Economy in Mining Advertising.
Table for Advertising Assessments on Saturdays.
Calendar for 1865-1866.
Information about Obtaining Patents.
Table of Distances on the Pacific Coast.

Metallurgy.

ASSAYERS

Desirous to commence an ASSAY OFFICE in the mines may buy, at a very low figure, in a prosperous mining county, a complete set of Assaying Apparatus, Scales, Chemicals, and everything necessary to carry on said business. Apply to Lock Box No. 782, Postoffice, San Francisco, stating name and where an interview may be had. 17v10

FIRST PREMIUM
FOR REFINING COAL OIL,

At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,
17v10 643 Third Street, bet. Brannan and Townsend.

EUROPEAN
METALLURGICAL WORKS,
—AND—
Practical Mining School,

Bryant Street, Between Third and Fourth,

SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. KIMBALL, J. R. MURPHY.
10v10

To Prospectors.

THE Directors of the San Francisco PACIFIC METALLURGICAL WORKS offer the following inducements to Prospectors:

NOTICE.—Knowing it will benefit our country to have it well prospected, we agree, if any party will forward us samples of minerals of any kind for assay, express paid, inclose TWO DOLLARS for the same, to return them a correct assay, with the best method of working, and feasibility of having the same worked in this city.

WORKS—North Beach. OFFICE—511 Sacramento street.
Box 511, Post Office, San Francisco. [v9-20tf

S. W. HOWLAND,
COPPER CRUSHER AND SAMPLER.

All Work done at the Shortest Notice.

No. 24 California Street,

Between Davis and Drumm,

In the Rear of Thomas' Planing Mill,

16-q SAN FRANCISCO.

Copper, Lead, Gold, Silver,
Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,

Agent for Townshend, Wood & Co., Swansea,

No. 416 Battery Street, San Francisco.
15v10-3m

ORES WANTED.

Gold, Silver and Lead Ores Purchased.

OR WORKED BY SMELTING OR AMALGAMATING,

At my Metallurgical Works in the City

Assay Charges for Ore.....Only $2.50

Apply to **J. MOSHEIMER,**
14v10-1m 338 Montgomery Street, San Francisco

MARTIN & CO.,

Office, Stevenson House,

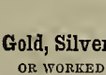
Corner California and Montgomery streets (up stairs).

WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES,

Assaying eight per cent. and upwards of Copper to the ton.

We will make advances upon Ores of Copper.
San Francisco, Post Office Box 1259. 22v10



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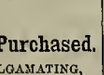

☞ **Extracting Without Pain.** ☜

Drs. Whiteomb & Dyer,
DENTISTS,

[Successors to W. H. Irwin.]

No. 205 Third Street, near Howard,

18-v9 SAN FRANCISCO.

BY AUTHORITY OF THE STATE OF CALIFORNIA

Having fully complied with the law by a deposit of $525,000 bonds of the State of California and the United State

BIGELOW & BROTHER,
GENERAL INSURANCE AGENTS,

FIRE, MARINE AND LIFE INSURANCE,

Capital Represented.....$15,000,000.

California Deposit..... $525,000

Office Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.

LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets	$1,500,000
HOME INSURANCE COMPANY, of New York, Assets	3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets	2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets	1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets	600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets	600,000

CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.

Policies issued on Freights, Cargoes, and Treasure, from and to All Parts of the World. Voyage War Risks taken on Hulls.

Fire Insurance Policies issued on all kinds of Insurable Property in the Country or City. Losses Payable in Gold Coin of the United States.

We represent the Oldest and Best Companies in the United States, and offer as favorable terms as any agency on this Coast.

Losses paid immediately on adjustment.

BIGELOW & BROTHER,

17-6m **General Agents.**

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 16, 1865. 11v10-tf

SAN JOSE INSTITUTE
—AND—
COMMERCIAL COLLEGE,

LOCATED AT SAN JOSE, CAL.

MALE AND FEMALE.

The next session of this Institution will commence on

Monday, July 31, 1865.

An experienced and competent BOARD OF INSTRUCTION is engaged, and every facility will be afforded for a thorough course of study, both in the Academic and Commercial Departments.

Catalogues, containing full particulars, furnished upon application to F. GATES, Director,
25v10-3m San Jose, Cal.

NOTICE OF APPLICATION OF MARRIED WOMAN TO become a Sole Trader.—Notice is hereby given, that JANE C. SMITH, of the city and county of San Francisco, intends to make an application to the District Court of the Fifteenth Judicial District of the State of California, in and for the city and county of San Francisco, on the twenty-ninth day of July, A. D. 1865, for an order of said Court, permitting her to carry on business in her own name and on her own account, pursuant to an act of the Legislature of the State of California, passed April 12th, 1852, entitled "An Act to authorize married women to transact business in their own name," and of the Act amendatory and supplementary thereto, passed April 18th, 1862. The business she intends to carry on is that of the purchase and sale, leasing and mortgaging of real estate, the cultivation of lands, and all matters therewith, or with either of them connected, and of a general trader, in the city and county of San Francisco and the county of Contra Costa.

JANE C. SMITH.
June 29th, 1865. jy1-4w

PARAGON PETROLEUM COMPANY.

Incorporated June 2, 1865,

Under the Laws of the State of California.

CAPITAL STOCK,

$600,000.

NO. SHARES.....6,000

Par Value.....$100

OFFICERS:

President.....ROBERT KIRK
Treasurer.....WM. H. TOBEY
Secretary.....D. S. CUTTER

TRUSTEES:

ROBERT KIRK, T. G. DUFF, WM. H. TOBEY.

OFFICE:

At WM. H. TOBEY & CO.'S Petroleum Agency, Room No. 28 Government House, corner of Sansome and Washington streets, SAN FRANCISCO.

The claims of this Company consist of ONE HUNDRED AND SIXTY (160) ACRES of oil land, favorably located on the North Fork of the Mattole river, adjoining the grounds of the Union Mattole Company, Mattole District, Humboldt county, California. The Company are now actively engaged in the development of the claims.

San Francisco, June 14, 1865. 24v10

CAPITALISTS
OF THE
PACIFIC COAST,

And others interested in the

NEW GOLD FIELDS OF COLORADO,

And the Western Territories, will do well to subscribe for the

Colorado Miner's Register.

PUBLISHED DAILY AND WEEKLY, AT CENTRAL City, in the heart of the great mineral belt of the Republic.

ITS CORRESPONDENCE from all parts of the country will be interesting to all Western men.

TERMS:

Daily—One Year	$25 00	Weekly—One Year	$7 00
" Six Months	13 00	" Six Months	3 50
" Three Months	7 00	" Three Months	2 00

Address,
COLLIER & WALLS,
Publishers "Miner's Register,"
22v10tf Central City, Colorado Territory.

NEW YORK PRICES.

WATCH REPAIRING AT NEW YORK PRICES.

C. E. COLLINS,

No. 602 Montgomery street, San Francisco.

EXCLUSIVE AGENT

—FOR THE—

AMERICAN WATCH FACTORY.

A large assortment of these

Superior Watches,

In Gold and Silver Cases,

Constantly on hand, and sold at Factory prices. Also,

ENGLISH AND SWISS WATCHES,

Imported directly from the Manufacturers.

The American Company are now making

VERY FINE WATCHES FOR LADIES.

☞ A large assortment of Gold Chains and Jewelry. 25v10-6m

WATCH REPAIRING AT NEW YORK PRICES.

NEW YORK PRICES.

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper ournal for the concentration of mining patronage.

DEWEY & CO.,
Publishers and Job Printers,
Office Mining and Scientific Press, San Francisco.

Mining Notices--Continued.

Ashland Gold and Silver Mining Company—Office, 613 Montgomery street, corner of Merchant.

An Annual Meeting of Stockholders of the above Company, for the election of trustees, will be held at the office of the Company on Monday, July 10th, 1865, at 4 o'clock P. M. By order of the President.

GEO. T. KNOX, Secretary.
San Francisco, June 13, 1865. jc17-4w

Bella Vista Gold and Silver Mining Company, Cacachilas District, Lower California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 26th day of June, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said company, payable on the 27th day of June, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, No. 326 Clay street, San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 29th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 12th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trusteos.

J. FULLER, Secretary.
Office, 326 Clay street, San Francisco. jy1

Bolinas Petroleum Company, Marin County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of June, 1865, an assessment of 25 cents per share was levied upon the capital stock of said Company, payable on the 1st day of July, 1865, in United States gold coin, to the Secretary, at the office of the company, No. 611 Clay street, Room 8, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 19th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. L. KIRBY, Secretary.
Office, 611 Clay street, room 8, San Francisco, jy1

Cherokee Gold and Silver Mining Company, Echo District, Humboldt County, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 23d day of June, 1865, an assessment of seventy-five (75) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at his office, northeast corner Montgomery and Jackson streets, San Francisco.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 29th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 12th day of August, 1865, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

L. FRANCONI, Secretary,
Office, northeast corner of Montgomery and Jackson streets, San Francisco. jc24

Caledonia Tunnel and Mining Company, Gold Hill District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of June, 1865, an assessment of three dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at his office, No. 10 Government House, corner of Washington and Sansome streets, San Francisco or to James V. Coffey, Virginia, Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 15th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, July 29th, 1865, at 12 o'clock M., to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

je10 J. M. BUFFINGTON, Secretary.

Emilia Mining Company, State of Guerrero, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 26th day of June, 1865, an assessment of fifty cents per share was levied upon the assessable stock of said Company, payable on the 27th day of June, 1865, in United States gold coin, to the Secretary at the office of the Company, No. 55 Montgomery Block city and county of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 29th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 12th of August 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, southeast corner of Montgomery and Washington streets.
San Francisco, June 26, 1865. jy1

El Alamo de San Antonio Mining Company, San Antonio Mining District, Lower California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 6th day of December, 1864, (re-advertised May 27th, 1865,) the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Susan Sweetser	5	10	$10 00
W R Hughes	20	10	10 00
W R Hughes	33	15	15 00
James E Freeman	48	20	20 00
S H Stone	03	15	15 00
G H Chase	58	25	25 00
E Schlatt	66	10	10 00
Albert A Muller	67	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of May, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by John Middleton & Son, No. 404 Montgomery street, San Francisco, Cal., on Saturday, the 15th day of July, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

THOMAS RUTHERFORD, Secretary.

Office, 514 Bush street, San Francisco. jy1

El Dorado Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

ASSESSMENT NO. 5.—Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 5th day of June, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 15th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 31st day of July, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.
W. D. ROOT, Deputy Secretary.

Office, No. 410 Montgomery street, San Francisco.

NOTICE.—At the above meeting, assessment No. 1, levied July 8th, 1863, assessment No. 2, levied August 4th, 1863, and assessment No. 3, levied October 15th, 1863, of ten cents per share each; also, assessment No. 4, levied September 24th, 1864, of fifty cents per share, were rescinded, and stockholders having paid said assessments will be credited on the above assessment, No. 5, accordingly. Also, notice is given, that the additional amount of twenty cents per share (being properly assessment No. 5), was levied for the month of June, 1865.

J. WARREN CLARK, Secretary.
je10 W. D. ROOT, Deputy Secretary

Garcia Petroleum Company, Garcia District, Mendocino County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 22d day of May, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
J J Crawford	not issued	438	$219 00
J G Morse	not issued	626	313 00
Geo K Webber & Co	not issued	321	160 50
T J Oneal	not issued	98	49 00

And in accordance with law, and an order of the Board of Trustees, made on the 22d day of May, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Edwards, Olney & Co., at No. 626 Montgomery street, San Francisco, on the 8th day of July, 1865, at the hour of 11 o'clock A. M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

D. S. CUTTER, Secretary.

Office, Room 23 Government House, corner Washington and Sansome streets, San Francisco. je24

Jewett Gold and Silver Mining Company, Works located at Gold Hill, Storey county, State of Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 22d day of May, 1865, the several amounts set opposite the name of the respective shareholder, as follows:

Name.	No. Certificate.	No. Shares.	Amount.
A H Houston	61	50	$50 00

And in accordance with law, and an order of the Board of Trustees, made on the 22d day of May, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on the 15th day of July, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

G. M. BURNHAM, Secretary.

Office, 509 Clay street, San Francisco. jy1

Hanscom Copper Mining Company, Low Divide District, Del Norte county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 19th day of June, 1865, an assessment of fifteen (15) cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 22d day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 5th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

S. S. SWEET, Secretary.

Office, 609 Market street, San Francisco je24

Kelsey Gold and Silver Mining Company, Kelsey District, El Dorado county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 30th day of May, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Wm Searle	14d	30	$9 00
Wm Searle	not issued	10	3 00
John W Gould	234	20	0 00
Edward Franklin	307	10	3 00
Edward Franklin	457	10	3 00
Edward Franklin	485	83	bal 14 90
Daniel Cronin	400	10	3 00
Daniel Cronin	401	10	3 00
Daniel Cronin	462	10	3 00
E Alexander	471	10	3 00
Henry Von Poser	487	10	3 00

And in accordance with law, and an order of the Board of Trustees, made on the 30th day of May, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the salesroom of Cobb & Sinton, 406 Montgomery street, San Francisco, on the 15th day of July, 1865, at 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

S. C. GARDNER, Secretary.

Office, No. 16 Drumm street, San Francisco. jy1

Lord Byron Gold and Silver Mining Company, Devil's Gate District, Nevada.

Notice is hereby given, that the annual meeting of the stockholders of said company, for the election of Trustees and for the transaction of other business, will be held at the office of the company, No. 520 Washington street (room 5), on Wednesday, July 10th, 1865, at 7 o'clock P. M.

H. B. CONGDON, Secretary.

San Francisco, July 1, 1865. jy1-3w

Manzanilla Mining Company, Sinaloa, Mexico.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 25th day of May, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Philip Caduc	107 165 473	68½	$17 12
J H Applegate	64 65 66 67	100	25 00
E W Forsaith	390 393 394 396		
	397 398 400 401	107½	26 87
J D Farwell & Co	24	137½	34 37
Nelson Hudson	53 250	50	12 50
J N Wilson	440	77½	19 37
W E Goldsmith	29	68	17 00
A E Fraser	542	100	25 00
S M Balch	50	12	3 00
H C Downing	513	25	6 25
Jas Vantine & Co	327	42	10 50
B F Bunker	80	25	6 25
H W Fortuno	26 497 506	135	33 75
R B Gray	91 94 96 97	86	21 50
J A Brown	110	10	2 50
Estelle Cerf	112	10	2 50
Albert Cerf	113	10	2 50
H Smith	120	8	2 00
J S Kennedy	281 282	10	2 50
A D Grimwood	138	10	2 50
S P Middleton	140	10	2 50
L Schultz	155	5	1 25
J J Schmedes	156	5	1 25
W R Satterlee	163	12½	3 12
Edmond Worth	173 174	25	6 25
A F Moses	185	25	6 26
J S Ring	197	10	2 50
Thomas Johnson	222 540	15	3 75
E F Lahrs	208	20	6 00
D Porter	225	15	3 75
T L Hall	235 236 261	30	7 50
Chas Mayne	246	50	12 50
C O Brigham	251 252	10	2 50
W H Thompson	257 339	10	2 50
John Harding	258	10	2 50
J W Gould	269 285 286	15	3 75
E T Smyth	477	10	2 50
Merit Welton	368 420 468		
	470 471	232	58 00
Peter Vinceat	288	10	2 50
Chas McDonald	290	12	3 00
Hermann Joost	296	10	2 50
Wm Schultz	301	12	3 00
M D Plummer	302	24	6 00
C E Blake	321	13	3 25
Austin Roberts	372	10	2 50
Jos de Forest	351	30	7 50
G A Miller	417	40	10 00
E Roudel	421	25	6 25
R B Provines	523	15	3 75
A G Randall	440	5¾	1 37
H H Wood	448	20	5 00
F F Barss	455	11	2 75
G W Melone	467	33	8 25
D E Martin	472	79	19 75
Mary Maloney	480	14	3 50
R A Swain	481	19½	4 87
G L Plympton	490	10	2 50
H Von Poser	522	15	3 75
Chas Carthorne	509	50	12 50
Julius Cerf	500	50	12 50
E D Edson	515	5	1 25
W A Stewart	204	5	1 25
Wm Ashland	516	6¾	1 62
S M Loring	508	103	25 75
J R Richards	517	13½	3 27
H R Clark	518 519 521	15	3 75
A A Sanford	520	5	1 25
S B Boswell	330	32½	8 12
Geo E Davis	332 333	50	12 50
J T Bonnestell	536	8	2 00
A W Rice	542 543	20	5 00
Isaac Rowell	349	117½	29 37
J C Beideman	12 191 276		
	377 544	402½	100 62
H D Cogswell	142 152 198	260	65 00
T H Hatch	211	10	2 50
R M Braugon	212	10	2 50
C M Nichols	239 264 324		
	335 403 512	72	18 00
G Runkel	501 502 528 537 538	197	49 25
Edmond Brooks	202 203 316	110	27 50
W E Reid	118 119 207 318	70	17 50
John Shirley	101 102 208 363		
	358 469 486	282	70 50

And in accordance with law, and an order of the Board of Trustees, made on the 25th day of May, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Cobb & Sinton, No. 406 Montgomery street, San Francisco, on Saturday, the 8th day of July, 1865, at 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

E. C. McCOMB, Secretary pro tem.

Office, Room No. 1, northwest corner Washington and Sansome streets, San Francisco. je24

Marathon Gold and Silver Mining Company, Keyes District, Mono county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of June, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable on the 13th day of June, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, northwest corner Washington and Sansome streets, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 15th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 29th day of July, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

E. C. McCOMB, Secretary.

Office, northwest corner Washington and Sansome streets.
San Francisco, June 12, 1865. je17

Mammoth Gold and Silver Mining Company, Rock Spring District, San Bernardino County, Cal.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 20th day of May, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Crocker, J	184	16	$8 00
Foster, W W	203	10	5 00
Farrelly, R S	212	40 3-12	20 33
Grant, G A	296	10	5 00
Hawley, C J	102	10	5 00
Hawley, C J	290	31	15 50
Hodgden, W	186	16	8 00
Krylguer, M	319	50	25 00
Ludlum, T B	305	35	17 50
Nicholson, J H	318	25	12 50
Palen, M	317	16	8 00
Quackenbush, E	245	10	5 00
Reed, C W	182	10	5 00
Reed, C W	201	13	0 50
Swett, W E	303	7 3-12	3 62
Starr, W W	319	47	23 50
Souther, W H	213	40	20 00
Wadhams, W	302	10	5 00
Wadhams, W	292	8	4 00

And in accordance with law, and an order of the Board of Trustees, made on the 20th day of May, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the salesroom of Edwards, Olney & Co., at No. 626 Montgomery street, San Francisco, on Monday, the 10th day of July, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. L. KIRBY, Secretary.

Office, 611 Clay street, San Francisco. je24

Mountain Mary Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 22d day of May, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No Certificate.	No. Shares.	Amount.
Clark, J W	not issued	20	bal $3 75
Goodell, C	not issued	225	47 25
Gilchrist, S F	1	20	10 00
Gilchrist, S F	2 3 4-10 ca	30	15 00
Lindop, Wm	4	5	2 50
Olstrom, Charles	not issued	50	25 00
Root, W D	11	12½	6 25
Saxe, R A	7	35	6 00
Skinner, M D	not issued	290	143 75
Sykes, J H	not issued	112½	56 25
Sheldon, Mary A	12	75	37 50
Sheldon, Mary A	13	50	25 00
Sorensen, H	5	10	5 00
Sorensen, H	9	5	2 50
Wright, J O	not issued	25	6 25
Victor, H C	8	10	2 50

And in accordance with law, and an order of the Board of Trustees, made on the 22d day of May, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Messrs. Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, on the 10th day of July, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.

Office, 410 Montgomery street, San Francisco. je24

Pennsylvania Silver Mining Company, Reese River District, Luder county, State of Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 29th day of May, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Aitken, Robert	11	25	$31 25
Aitken, Robert	12	25	31 25
Aitken, Robert	30	15	18 75
Bowley, S C	27	10	12 50
Bryan, Wm J	16	10	12 50
Campbell, T Jr	1	25	31 25
Campbell, T Jr	2	25	31 25
Campbell, T Jr	4	10	12 50
Campbell, T Jr	5	10	12 50
Campbell, T Jr	7	6	7 25
Coleman, Wm T	29	25	31 25
Ensign, Geo H	32	150	187 50
Forbes, Wm H	6	10	12 50
Forbes, Wm H	not issued	140	175 00
Hunsaker, J C	not issued	200	400 00
McKee, D R	26	25	31 25
Nutting, C Jr	17	25	31 25
Nutting, C Jr	18	25	31 25
Nutting, C Jr	not issued	50	62 50
Pease, E T	9	25	31 25
Steele, J G	25	5	6 25
Ten Eyck, Samuel	13	25	31 25
Ten Eyck, Samuel	14	25	31 25
Ten Eyck, Samuel	15	25	31 25
Ten Eyck, Samuel	31	20	25 00
Watson, Wm C	not issued	65	81 25

And in accordance with law, and an order of the Board of Trustees, made on the 29th day of May, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, Cal., on Monday, the 17th day of July, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

T. D. CUNNINGHAM, Secretary.

☞ Office, 55 Montgomery Block, southeast corner Montgomery and Washington streets, San Francisco.
San Francisco, July 1, 1865 jy1

Porter Gold and Silver Mining Company, Virginia District, Storey County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 10th day of May, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Page, R C	45	13 1-3	$66 66
Page, R C	46	13 1-3	66 66
Staunchfield, L G	55	10	50 00
Staunchfield, L G	56	10	50 00
Staunchfield, L G	57	5	25 00
Stevens, T H	87	5	25 00
Smith, E F	92	12½	62 50
Marston, P F	98	10	50 00
Marston, P F	99	20	100 00
Cole, Delos	5	10	50 00

And in accordance with law and an order of the Board of Trustees, made on the 10th day of May, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on the 8th day of July, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale

C. W. WESTON, Secretary.

Office, 534 Clay street, San Francisco. je24

Rose Gold Mining Company, Location, Mariposa County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 8th day of June, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the company, No. 338 Montgomery street, (Room No. 12,) San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 22d day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 5th day of August, 1865, to pay the delinquent assessment thereon, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. M. PECK, Secretary.

Office, No. 338 Montgomery street (Room No. 12), San Francisco. je24

San Rafael Mining Company, Ranchita, Lower California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 29th day of June, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable on the 1st day of July, 1865, in United States gold and silver coin, to the Secretary, EDWARD A. HAWLEY, at the office of the Company.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 29th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 15th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

EDWARD A. HAWLEY, Secretary.

Office, corner California and Battery streets, San Francisco, Cal. jy1

Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 29th day of June, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, in San Francisco, or to J. M. PIKE, Superintendent, at Copperopolis.

Any stock upon which said assessment shall remain unpaid on Saturday, the 29th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 14th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses the sale. By order of the Board of Trustees.

EDWARD C. OVELL, Secretary.

Office, No. 436 Jackson street, San Francisc jy1

Vulcan Mining Company, Santa Fe District, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of August, 1864, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 22d day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 5th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room No. 4, northwest corner Clay and Front streets, San Francisco, Cal. je24

Whitlach Yankee Blade Silver Mining Company, Lander county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 20th day of May, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
T B Bruffey	1	5	$50 00
T B Bruffey	2	5	50 00
T B Bruffey	3	10	100 00
T B Bruffey	4	10	100 00
T B Bruffey	5	10	100 00
T B Bruffey	6	10	100 00
Asaph Gray	8	11½	115 00
Asaph Gray	11	4	40 00
P C Lauder	27	20	200 00
A B Gayle	23	5	50 00
W B C Harker	35	10	100 00
Mulford Nickerson	38	12½	125 00
John A Work	45	5	50 00
John A Work	55	5	50 00
H F Cutter	47	5	50 00
H F Cutter	52	5	50 00
H F Cutter	53	0	00 00
Mrs L W Eckley	49	1	10 00
Dr O P Warren	63	2½	25 00
Dr O P Warren	54	2½	25 00
James Camp	65	3	30 00
James Camp	70	1	10 00
S Knox	81	20	200 00
S Knox	82	20	200 00
S Knox	83	10	100 00

And in accordance with law, and an order of the Board of Trustees, made on the 26th day of May, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Company, 402 Front street, on the 15th day of July, 1865, at the hour of 3 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. jy1

MINING AND SCIENTIFIC PRESS

PATENT AGENCY.

For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 4th, 1861, and March 3d, 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be witheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Preliminary Examinations.

In some cases it may be advisable as a measure of prudence to order a preliminary examination. This consists of a special search made at the U. S. Patent Office, Washington, through the medium of our associate in that city, to ascertain whether among all the patents and models there stored, any invention can be found which is similar in character to that of the applicant. On the completion of this special search we send a written report to the party concerned, with suitable advice. Our charge for this service, including the report, is ten dollars. This search, though it involves the expense just named, will usually prove satisfactory. If the same device has been before patented, the time and expense of constructing models, preparing documents, etc., will in most cases be saved; if the invention has been in part patented, the applicant will be enable to modify his claims and expectations accordingly. Many other obvious advantages attending the Preliminary Examination; although the strictest search does not always enable the applicant to know positively whether a patent can be had. Applications for patents are often rejected because the Examining officer finds a description of the alleged invention in some foreign publication; or some other person has been previously rejected on an analogous device; or some other invention for a similar purpose, but partially resembles the applicant's in its construction; or the Government makes an unjust or unconstitutional decision. Against none of these contingencies does the Preliminary Examination provide; it will, however, generally inform the applicant whether an improvement similar to his and used for the same purpose has ever been patented or not in this country.

Persons desiring the Preliminary examination are requested to remit the fee ($10), and furnish us with a sketch and description of the invention.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will ofttimes find it very important to take advantage of the enveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues. If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Return of Models.

Under the new law, if the applicant's case has been rejected he is entitled to withdraw his model from the Patent Office.

This law applies to all past rejected cases, and if parties wish to obtain their models through us, they can do so at a small expense.

Application for Patents, Designs, Trade-Marks, Labels, etc.

Under the new law patents may be taken out for any new form of any article, also for tools, patterns, castings, machine-frames, stove-plates, borders, fringes, all new designs for printing, weaving or stamping upon silks, calicoes, carpets, oil-cloth, prints, paper-hangings, and other articles. Trade-mark labels, envelopes, boxes and bottles for goods, may also be patented; likewise all works of art, including prints, paintings, busts, statues, bas-relief, or compositions in alto, or basso rellevo, now dies, impressions, ornaments to be placed upon any article of manufacture, architectural work, etc.

Our facilities for the prompt preparation and securing of patents are of the most thorough character and our charges are very moderate.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 yrs and 6 mos...	$10
On every application for a design, for seven years.....	15
On every application for a design, for fourteen years.....	30
On every application for a patent, for seventeen years...	15
On every caveat.....	10
On issuing each original patent.....	20
On filing a disclaimer.....	10
On every application for a re-issue.....	30
On every additional patent granted on re-issue.....	30
On every application for an extension.....	50
On the grant of every extension.....	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C....	25

Renewal of Forfeited Applications.

The law passed by Congress March 3, 1865, gives the right to inventors whose applications have been forfeited, by reason of default in the payment of the final fee of twenty dollars within the six months prescribed by law, to renew their applications, which may be done by filing a new petition and a new oath, and the payment of an additional fee of fifteen dollars.

Infringements.

The manufacture, sale, or use of a patented article, without consent of the owner of the patent, is an infringement, and subjects the infringer, by injunc tion from the Court, to an arrest of or prohibition from the employment of his machinery, shop, works, factory and men in production of the article.

In addition to injunction the infringer is liable to be mulcted in treble the amount of damages awarded by the jury. The maker, the workman, the seller, and the purchaser, if a user, are all liable either collectively or individually.

Having access to all the patents, models, public records, drawings and other documents pertaining to the Patent Office, we are prepared to make examinations and give opinions upon all infringement questions, advise as to the scope and ground covered by patents, and direct with vigor any legal proceedings therewith connected. Our charge will be moderate, and proportionate to the labor involved.

Appeals.

Many important cases are brought before the Judges on appeal and the decisions of the Commissioner are not unfrequently reversed.

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

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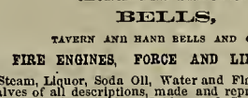

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For Non-Retention or Incontinence of Urine, Inflammation or Ulceration of the Bladder or Kidneys, Diseases of the Prostrate Gland, Gravel, Brick Dust Deposits, Dropsical Swellings, Orgaulc Weakness, Debility, Female Complaints, Etc.

H

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Will radically exterminate from the system Diseases arising from Habits of Dissipation, *at little expense, little or no change of diet, no inconvenience or exposure*; completely superseding those *unpleasant and dangerous remedies, Copaiba and Mercury*, in curing these diseases.

U

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In all Diseases of the Urinary Organs, whether existing in MALE OR FEMALE, *from whatever cause originating, and no matter of how long standing*. It is pleasant in its taste and odor, IMMEDIATE in action, and more strengthening than any of the preparations of *Bark or Iron*.

Those suffering from *Broken Down or Delicate Constitutions, procure the Remedy at once.*

The reader must be aware that however slight may be the attack of the above diseases, it is certain to affect his *Bodily Health, Mental Powers and Happiness*. If no treatment is submitted to, Consumption or Insanity may ensue.

All the above diseases require the aid of a diuretic.

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IS THE GREAT DIURETIC.

L

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HIGHLY CONCENTRATED

Compound Fluid Extract Sarsaparilla,

For purifying the Blood, removing all diseases arising from excess and imprudence in life, chronic constitutional diseases arising from an impure state of the blood, and the only reliable and effectual known remedy for the cure of Scrofula, Scald Head, Salt Rheum, Pains and Swelling of the Bones, Ulcerations of the Throat and Legs, Blotches, Pimples on the Face, Tetter, Erysipelas, and all scaly eruptions of the skin, and beautifying the COMPLEXION.

M

NOT A FEW

Of the worst disorders that afflict mankind arise from the corruption that accumulates in the Blood. Of all the discoveries that have been made to purge it out, none can equal in effect HELMBOLD'S CONCENTRATED EXTRACT OF SARSAPARILLA. It cleanses and renovates the Blood, instills the vigor of health into the system, and purges out the humors which make disease. It stimulates the healthy functions of the body, and expels the disorders that grow and rankle in the Blood. Such a remedy, that could be relied on, has long been sought for, and now, for the first time, the public have one on which they can depend. Our space here does not admit of certificates to show its effects, but the trial of a single bottle will show to the sick that it has virtues surpassing anything they have ever taken.

B

Two tablespoonsful of the Extract of Sarsaparilla, added to a pint of water, is equal to the Lisbon Diet Drink, and one bottle is equal to a gallon of the Syrup of Sarsaparilla, or the decoction as usually made.

The above Extracts are prepared on purely scientific principles—in *Vacuo*—and embody the full strength of the ingredients entering into their composition. A ready and conclusive test will be a comparison of their properties with those set forth in the U. S. Dispensatory.

O

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In Diseases of the Blood, Humors on the Face, or any and every part of the body, use Extract of Sarsaparilla, applying to Pimples and all external Humors or Eruptions the Improved Rose Wash.

Use the Extract Buchu for all diseases requiring the aid of a diuretic, except those of the Urinary Organs, such as Gonorrhœa and Gleet; in these use the Extract Buchu, and inject with the Improved Rose Wash.

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Describe Symptoms in all Communications.

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"Say, why should man for thirst be given
If not for wine bestowed by Heaven
To quench such drought as mine?
Without it, I'm a fish on land,
A barren heap of parching sand—
Then give me joyous wine."—*Trinklied.*

Delicacy of flavor, exhilaration without intoxication, and every other desirable property belonging to the rightly fermented juice of the Grape, are to be found in the "Gerke Wine," from the celebrated Bosquejo Vineyard, Tehama county.

There is no wine produced in California that can bear comparison with this, and it would be difficult to find a European wine, of the same class, that can surpass it.

The vintage of 1862 is now offered for sale, in quantities to suit, by the Agent of the vineyard,

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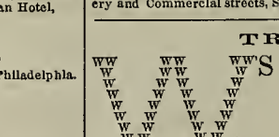

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Mining and Scientific Press.

A Journal of Useful Arts, Science, and Mining and Mechanical Progress.

DEWEY & CO., PUBLISHERS, And Patent Solicitors.

SAN FRANCISCO, SATURDAY, JULY 15, 1865.

VOLUME XI. Number 2.

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THE MECHANICS' INSTITUTE MEDAL.

We have before us, as we write, a specimen issue of the medals which the Mechanics' Institute proposes to award, as evidences of merit to exhibitors, at their approaching Exhibition. On the face of the medal appears, in strong relief, two figures, appropriately clad—one representing the mechanic arts, with the anvil, the derrick, and other appropriate ensignia at his feet; the other represents genius and the fine arts, with the pallet, the harp, the globe and the telescope by his side. The two figures are represented with joined hands, showing that genius and industry should go hand in hand. In the back ground is seen a hive, emblematic of industry, supported on a pedestal, inscribed "LABOR," while agriculture, represented by the plough, is seen at its base. Over the whole is emblazoned the motto, "Progress, Genius, Invention." Upon the reverse is the inscription of award. The whole design is exceedingly appropriate and neat. The medal is about one fourth larger than the twenty dollar gold piece, in diameter. Some two hundred medals will probably be awarded—a portion in gold, the balance in silver, each of which will be of coin standard. The first will weigh an ounce and a half, and will be worth about $30 in gold value; the silver medal will weigh about an ounce and a quarter. Diplomas will be awarded as usual.

A METALLIC COATING FOR PRODUCING A WHITE SURFACE.—This result is effected in a very simple way by Mr. Well. He makes an alkaline solution of the metal which he intends to deposit, and adds to it tartaric acid, glycerine, or some other organic matter. Iron, steel, etc., may with such a fluid be coated with copper, zinc, nickel, etc., and beautiful bright surfaces be obtained. It is usually sufficient to place the object to be coated in the alkaline solution; but, if required, a weak galvanic current may be generated by bringing it into contact with a piece of zinc.—*London Artisan.*

TO CORRESPONDENTS.—"J. S. M." from Esmeralda, has been received, and will claim attention next week; also, "C. W. T.," both old correspondents, from whom we are always pleased to hear.

AN adventurous French chemist, M. Fouke, has carefully examined the evacuations of Mount Etna during the late eruptions, and he has remarked a total absence of sulphur and its compounds in them. This, which at first sight seems extraordinary, has often been observed before, as related by Humboldt in the last volume of his "Cosmos."

A GERMAN agriculturist says that before he plants his potatoes he washes them in chlorine water and dries them in the sun. He says that he has saved them from disease during several years.

OUR MINERAL EXHIBITION.

The proprietors of the MINING AND SCIENTIFIC PRESS have made arrangements with the managers of the Mechanics' Institute to take charge of all mineral specimens and curiosities which our friends in this city and in the interior may see fit to place in our care for exhibition at the coming Fair. By this arrangement, parties sending collections from abroad, with full descriptions, will have the benefit of having the same properly cared for and displayed, and their peculiarities explained by a faithful and competent attendant, who will be present during the Fair to exchange views and information by free discussion with various practical miners and scientific mineralogists. This, we believe, will be productive of much mutual good. We shall also publish a description of all articles furnished to our care and placed in the collections, to be circulated gratuitously to visitors.

Models of new machinery, inventions, and new discoveries, may also be sent to our care for display and illustration.

Those wishing special cases made for particular articles, or other extra arrangements for display, will have their orders filled by paying whatever extra cost may accrue.

All the steam transportation companies have liberally consented to forward, free, all articles intended exclusively for exhibition, consequently our friends will only need to prepay charges to the nearest point of railroad or steamboat connection, at which place Wells, Fargo & Cos. Express will receive them in charge and deliver to ourselves.

Address, For Mechanics' Fair, care of Dewey & Co., Mining and Scientific Press Office, San Francisco, per Wells Fargo & Co.

A WHISKY DISTILLERY IN A COAL MINE.—The U. S. Internal Revenue Collectors are obliged to keep a pretty sharp lookout to prevent the artful dodging of the great number who strive to evade their obligations to Uncle Sam. Numerous underground Chinese-cigar manufactories have recently been ferreted out in the Chinese quarters of this city. The same tricks are often played in the Eastern States by those calling themselves white men. The collector of Peoria, Ill., recently had his suspicions aroused with regard to certain coal mining operations in that vicinity. In company with several assistants he visited the mine, which he entered and proceeded until he came to what appeared to be a carefully concealed lateral chamber, closely stopped up with slate and shale. This was torn away, and, after groping a short distance, the olfactories of the party plainly detected whisky in the advance. And whisky, sure enough, there was. How much whisky the mine would yield, it was impossible to tell, until a full investigation. Accordingly a force was dispatched to the place to roll it out. At last accounts it was thought the "yield" would be at least one hundred and fifty barrels. We have often heard of obtaining whisky from coal, as a laboratory process, but never before supposed it had been attempted on a large scale, for public consumption.

NEXT WEEK we shall publish a list of officers of mining companies recently elected.

LINSCOTT'S PATENT CHAMBER DRILL.

We have before alluded in our columns to this new and labor-saving California invention, and are now enabled to give our readers, in this connection, a small engraving of the instrument, together with a more minute description of the same than has previously been published.

D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of D is a guide plate ½ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

As shown above, the drill is very simple in construction and apparently not liable to get out of repair, except it may be from the wear of the cutters, of which an extra set are furnished with each drill.

The object of the drill, as every practical workman will have observed, is to increase the efficiency of blasting by cutting a chamber in the bottom of an ordinary drill hole for containing an extra charge of powder, by which means all the efficacy of the "lifting shot" is obtained upon explosion without the attendant extra labor and danger.

Every improvement which tends to lighten the hard labor of miners and give impetus to the genuine development of our mines should receive encouragement upon every hand; and we would recommend all interested parties to examine into the merits of this drill, and let those who are abundantly able hesitate not to give it an immediate and thorough trial.

Among those who have spoken voluntarily, and even extravagantly, in its praise, we have to mention the names of J. C. Goad, supt. Eureka mine, Wm. Clift, Hueston Hill mine, Samuel F. Paul, foreman of Empire mine, and M. Bennerlback, foreman Eureka M. & M. Co., of Grass Valley.

Messrs. B. F. Sherwood and Wm. H. Godfrey hold the patent right of this drill for the Pacific coast. Mr. Wm. B. Lake, No. 28 Government House, in this city, is their sole agent for the sale of the same, as will be seen by advertisement in another column.

RICH ORE FROM ARIZONA.—Several hundred tons of rich copper ore, from the Planet and other mines in Arizona, and fifteen or twenty of very superior argentiferous galena, from the Arizona Consolidated, have recently been placed on board the Wild Hunter for transportation abroad. The same ship also takes away a fine lot of ore from the Union Mine of Copperopolis.

THE STATE GEOLOGICAL SURVEY.—The first volume of the State Geological Reports is now fully due and should have arrived by the Golden City, but did not. It is quite confidently expected by the next steame

THERE are over three million horses in France. In all the world, about 58,000,000.

PREPARATIONS FOR THE MECHANICS' EXHIBITION.

We understand that the committee having the matter of the forthcoming Institute Exhibition in hand, are progressing finely with their work. Over 200 exhibitors have already applied for space in the Pavilion, a much larger number than had applied at so early a day last year. In order to meet the demand for extra space, which the committee feel assured will arise, an addition to the extent of fully 5400 square feet has been made to the northwest portion of the Pavilion. A very important improvement has also been introduced into the arrangment for lighting, by which a considerable amount will be saved in the cost of gas, while a decided improvement will be gained in the amount and utility of the light produced. This has been effected by placing an eight foot reflector on the lower portion of the dome. This reflector will show three concentric circles of burners—80 in all, and so arranged as to throw the light diagonally downward and outward into nearly every portion of the Pavilion. The 80 burners, thus arranged, will take the place of 388 that were employed a year ago, and with the aid of the reflector will give more light.

It should be borne in mind that this will be the last exhibition which can be given for several years; as the Pavilion must be taken down immediately after the close of the coming one.

We would again call the attention of our mining friends to the importance and advantage of sending a good show of minerals. Besides presenting a most excellent advertisement for the various sections which will be represented, it will also afford scientific men, and others, the opportunity to examine the mineral resources of the country in miniature. Several parties have already engaged, through the publishers of the MINING AND SCIENTIFIC PRESS, space for the exhibition of minerals. In this connection we would call especial attention of advertisers and others to the prospectus of our DAILY FAIR PRESS, which will be found in another column.

THE CHOLLAR-POTOSI CO.—We understand that no officers were chosen at the annual meeting of the stockholders of this company, held on the 11th inst., and the old officers consequently hold over. The following gentlemen comprise the list of officers:—A. K. P. Harmon, President; W. E. Dean, Secretary; J. B. Haggin, Thomas Bell, A. C. Peachy, Louis Sloss, M. C. Hillyer and B. B. Sherwood, Trustees; Harry Beckwith, Superintendent. The new stock of this company will not be issued for three or four months. No meeting for the election of new officers will be called until after the new stock has been issued.

ACCIDENT.—Mr. Swift, brother-in-law of Mr. J. Sevenoaks, met with a severe accident a few days since, while passing along the road near "Mountain Charley," Santa Cruz. He was driving a one-horse buggy, with a spirited horse attached, when the animal became frightened and plunged down the steep bank, completely destroying the vehicle and badly injuring the animal. Mr. S. miraculously escaped with but slight injuries.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

THE AGE OF GOLD-BEARING ROCKS.

BY THOMAS ROWLANDSON, FELLOW OF THE GEOLOGICAL SOCIETY, LONDON.

NUMBER SIX.

The economical considerations indicated by the geological features described in the last number, not only as connected with mining for the precious metals, but also as to the probable production of petroleum, etc.

Before proceeding further with this subject, it will perhaps be well to draw the attention of the uninitiated reader to the fact that it will be necessary for him, in order the better to understand the subject, that he should at once disabuse his mind of the impression that anything like the same physical features as regards land and water, elevation or depression, existed at the time the beds just noticed were deposited as compared with what is now seen; it would be well also for him to bear in recolleetion that the vast bulk of the stratified rocks, composing so large a part of the crust of the globe, must have been deposited subaqueously, whether the area was oeeanic, lacustrine or fluviatile, sub-ærial accumulations being confined to strata composed of vegetable remains, volcanic ash, drifting sands, and the very limited amount of rocks deposited by mineral springs. The last, perhaps, ought more appropriately to be classified amongst aqueous deposits, the most extensive examples of which are to be found in the tufaceous and travertine deposits of limestone and volcanic regions.

Such being a very brief outline of the general features connected with the deposition of stratified rocks, the reader will be prepared to aeeept, as a fact, that at the time when the beds were formed, which are alluded to by the State Geologist as possessing generally similar features to the Halltstadt and St. Cascian beds of the Alps, and stated, on the authority named, as being found so generally in the metalliferous mountain region of the Pacific coast, were at that period submerged, and, unless a misprint has occurred in the text quoted—namely, "halobia," in place of halonia*—all the organic remains described as having been procured from the beds under notice, are those of aquatic animals, inhabiting shallow waters. From the data given, it may be conceived that a large part of this area, notwithstanding occasional upraisings and submergences, existed at various intervals and long periods, as dry land; otherwise we cannot account for the absence of an immense thickness and long series of beds intervening in many other districts, both in this and the old continents, between the mountain or carboniferous limestone and the lower beds of the Triassic series. It is only in this way that we can account for the otherwise anomalous admixture of paleozoie fossils in connection with others usually assigned to seeondary or, as they are now more usually termed, mezozoic (or medival) rocks—which includes the Triassic, the Jurassie and the cretaceous or chalk periods.

This singular admixture of forms may be accounted for by the circumstance that after only a very limited thickness of the lower carboniferous rocks was deposited, that a large area of them was upraised above the ocean level, and continued so until about the commeneement of the Triassie period. That physical conditions, connected with not only the underlying carboniferous rocks, but also as respects the subsequently superposed deposited matter, might oecasion an admixture of fossils, can easily be imagined. Calcareous or silicious beds, in an arenaeeous state, plaeed near a stormy shore line, or a bank, amidst a rongh and shallow sea, would afford the neeessary conditions here supposed, and which probably occasioned the singular admixture of fossils noticed. The nature of the fossils, however, indisputably prove that the beds themselves must have been deposited below the ocean level—a level which it must be understood could not reatively differ mueh from that now existing; consequently these beds must have been raised, in many instanees, five, six, or seven thousand feet, and upwards, above the level of their original deposit to their present elevation. It must also be remarked that if any series of beds, or a single bed of any one series, is examined for gold or silver, none can be found; thus pretty well, though indirectly, establishing the fact that no auriferous veins existed in their vieinity, otherwise some traces of gold, however slight they might be, would be found mixed with one or more beds eomposing the series. It can, however, easily be imagined that during the aet of upraising from the sea level to their present, say five thousand feet or upwards of elevation, that fissures and various fractured conditions probably would and did arise, which have given origin to the metalliferous bearing veins which almost always form so marked a contrast, in lithological character, with the adjacent rock. All these facts go far to prove that it is only at a very reeent period of geological time that the metalliferous veins of the Sierra Nevada of the Paeifie eoast were filled with their valuable eontents.

Calaterally with the problem noticed, arises another, quite as interesting in its economieal aspect as the one just dwelt upon, namely:

How far do these discoveries, or asserted discoveries, throw light upon the probabilities of finding coal or petroleum?

The importance of the two queries above put are sufficient to justify even a lengthy episode to the investigation of the subjeet which forms the title to this series. As, however, both the enquiries eonneeted with the sub-caption have an important referenee to a particular branch of the main enquiry, there is the less reason required for making any apology for inserting what otherwise might be deemed an interpolation.

It is unneeessary to go over ground already noticed, respecting the probability that during a long period, in the course of which, in many other parts of the world, were deposited beds of many thousand feet in thickness, intercalated in some places with hundreds of feet of coal and carbonaceous shales, the shales, and possibly some of the coals, termed cannel coals, were probably produced under water; but the bulk of the carbonaceous accumulation indicates a terrestrial flora; to account therefore for the absenee of the coal seams in the anomalous beds which have so frequently been referred to, we have only to conceive the following state of things: 1st. That the conditions essentially required by the coal flora did not locally exist at the time the now well known stores of mineral fuel, in various parts of the world, were accumulating. In eonneetion with this part of the subject, it is well to call to mind that the existence of working deposits of coal is the exeeption rather than the rule throughout the world, as by far the largest part of the earth is devoid of them. The praetieal inference to be drawn from these facts is, that in the vicinity of the Sierra Nevada, as in the vicinity of the Alps, the true coal measures are absent. 2d. That if we admit the absence of coal amongst these beds, we must, on the same account, admit the absenee of accumulations of oil, such as have been found in the Eastern States; for although many of the wells that have been tapped in the Eastern States have been obtained from openings, fissures and lines of fault situated in rocks below the carbonaceous series, that fact by no means nullifies against the great probability, amounting almost to absolute certainty, that the great source of Eastern petroleum has chiefly been the contiguous anthraeite beds.

In the absence, therefore, of the neeessary *source* it would be idle to seek the derivitive *petroleum*. Even the uninitiated reader will at once see from the preceding remarks how important it is that every particle of available information, connected with the fossil flora and fauna of the State survey, should be made as accessible as possible to every enquirer, and not locked up in boxes or other obscure places, for the sole use of any State servant.

Do the preceding facts prove or disprove the probability of the existence of large quantities of petroleum in California?

If the data on which the preceding argument is based, be correct, it may be assumed that it is highly improbable that any considerable, or perhaps any true coal beds or petroleum derivable therefrom, will be found on the Pacific coast; and, as far as coal is concerned, probably none of that mineral will be found of a quality equal to that frequently found in the true carboniferous series. The searcher after oil must not, however, be discouraged at the statement just made. He may, perhaps, be benefitted by knowing that if he has positive indications around any place where he may contemplate boring for oil, that the strata belongs to the carboniferous formation, it will be well to hesitate before going to further expense, as the probabilities are greatly against success.

Now, although the quantity of coal or lignite obtainable from the more recent geological formations has never yet been found so great in quantity nor so valuable in quality as that found in the beds of the carboniferous formation in Pennsylvania and other parts of the world, it by no means follows that the petroleum derivable from lignites, and more recent coals, may not be abundant in quantity and exeellent in quality; all that it is here desired to impress on the reader's mind, is that if for reasons already given, the beds of mineral coal belonging to the true carboniferous series are deficient, or entirely wanting in California, we must not feel surprised that the other physical conditions requisite to form "blowing" or "spouting" wells may not be present also. The permanency of flow from such wells at the East has yet to be tested. Less than a couple of years has already exhibited a most marked decrease of artesian flow, and it has yet to be tested how far the subterranean reservoirs in the Eastern oil districts will bear drawing on by pumping. It should always be borne in mind that both pneumatie and hydrostatic influenees have, in most instances, in the large spouting wells hitherto formed, contributed greatly to the surprisingly large flow which, in some instanees, has been exhibited. When the pressure from these causes diminishes we shall be better able to obtain data on which to base an estimate of the probable future yield. As yet, any opinion based on so limited an experience as we now possess, would be of the most speculative character.

Fortunately for the owners of California oil lands, all of which, so far as the writer's personal investigations have proeeeded, as well as from information derived from others, have fully established this faet that the most promising oil lands on this eoast derive their petroleum from beds not below the Jurassic, and in most instanees probably not of an age greatly different from the tertiary lignites of other parts of the world. Mines of "asphalte" have long been worked for eeonomic purposes in the vieinity of the Jura, and it is amongst these and the tertiary beds that from an ancient period so abundant a supply has been obtained. The neighborhood of the Caspian and Dead Seas has for thousands of years yielded an enormous natural flow; for centuries the vieinity of Amiano, in Italy, has yielded the same, and the wells on the Irriwaddy, near Rangoon, have yielded 700,000 barrels a year, or 2,000 barrels per day for many eenturies. All these plaees derive their petroleum from tertiary beds, analagous to those which afford the prineipal surface springs of petroleum in California. The inference to be drawn from all these facts is that though the attempts to obtain oil wells may prove in most easeo a disappointment, evidences exist of the most marked charaeter that over a very large area produetive wells will be discovered, ealculated to yield a large aggregate, and that on some specially favorable positions the yield will be immense in quantity, and probably of a mueh more durable charaeter than anything found derivable from the true carboniferous formations.

[To be continued.]

Halonia, a genus of the Lepidodendreæ, is found in the coal measures, and as Professor W. alludes to the partial existence of carboneaceous beds, it is of importance to know whether the word quoted is intended to represent an animal or a vegetable fossil.

[Written for the Mining and Scientific Press.]

The Problem of Gold and Silver Extraction—A General Review—No. XIV.

BY PROF. L. LANSZWEERT.

SILVER PROCESSES.

That mill owners may be greatly benefitted, in the reduction of silver ores, by the adoption of some of the modified appliances of reeent introduetion, there ean be no reasonable doubt. It is also a matter of intcrest that the mind of the mining community has become quite fully awakened to the late ehanges and advanees that have been made in the seience of procuring the precious metals from their gangues. "Cosmos" lately gave Washoe, now the State of Nevada, the credit of being the "first in mineral wealth and first in the art of working silver ores." Notwithstanding that region has done mueh in advaneing this important braneh of industry, we must nevertheless pronounce the assertion of "Cosmos" as somewhat broad, and when it is reeolleeted that it emanated from a somewhat enthusiastie and etherial mind, it will of course be reeeived *cum grano salis*. The amount of bullion received from Nevada, large as it is, will scarcely entitle it to being set down as "first in mineral wealth" among the silver producing countries of the world. The statement of her being the "first in the art of working silver ores," his own confession, written a little later, appears to abundantly disprove; he writes, in his "Mineral Wealth of Washoe" as follows: "In fact we are beginning to realize the fact that the older methods, and thorough working of the material is the *great desideratum* after all, and better than an extra amount of scientific knowledge, that is of no practical benefit." *Scripta manent, verba volent*, Mr. "Cosmos." Having sought diligently for "the little red powder," and not having found it yourself, you should not therefore endeavor to stigmatize *every* scientific applicatiou for the reduction of silver ores; nor pronounce everything in that direetion a humbug, because patented or kept secret, while even you have secured, by letters patent, the exclusive right to an alleged improved mechanieal idea of a muller for grinding.

Notwithstanding that most of the wild theories for the reduction of silver ore, introdueed into Washoe, have been exploded—that the alledged wonderful discoveries of processes by which silver could be extracted from its ores at a nominal expense, when submitted to the severe test of actual experiment, have proveu failures; still substantial improvements have been effected in this department of metallurgy.

Among the useless expenditures in this direetion we have McCullough, Hatch, Veateh, the sage-brush, the stove-pipe, and lastly the loaf-sugar process—*et tutti quanti*—processes only known in the Washoe region, where hundreds of dollars have been expended, foolishly, to test the magieal power of these inventions. We have also the experiments of some, who, having observed an astonishing phenomenon in the reduction of ores, or having found a hint in a book, have followed the matter up, worked the ore for some time, then assayed the residue by the usual way of assaying, and finding no silver, have inferred that all the silver has been extracted.

Silver can be lost in three ways; by volatilization, by solution, and by the tailings; but it may turn into sueh combinations, as are not to be found in the usual way of assaying by acids. Even the assay by fire, however, rarely subject to such mistakes, can give very erroneous results. If particular precautions are not taken, even the Washoo silver ores give, very often, oeeasion to such combinations.

Thus, investigators here repeat again all the experimeuts already made by earlier generations, spend useless money, and create a general distrust against real improvements, based on seientific progress.

PATIO OR MEXICAN PROCESS.

This method is said to have been invented in Mexieo by *Bartholomeo de Medina* in 1557, where it is still practiced in its primitive simplicity. The ore is mixed with ten per cent. salt and magistral (sulphates of iron and eopper): by the action of these salts, the air, and humidity, chloride of silver is formed; after some days, mereury is added, ten times the quantity of the silver contained in the ore, and the amalgam gathers at the bottom of the heaps. This proeess requires no machinery at all, but lasts from twelve to fifteen weeks, and causes a loss of twenty per eent. of silver, and of from thirty to fifty per cent. of quieksilver.

Medina used only salt mixed with the sulphates of iron and eopper; but when, in 1586, *Carlos Corso de Leca*, a Peruvian miner, discovered the *beneficio de hierro*, by adding to the ore, reduced as fine as flour, small scraps of iron, he so improved the process that there was nine-tenths less loss of mercury than in the original patio. This proeess is based on the decomposition of the chloride of silver by iron and the affinity of the latter for sulphur. This is known, yet but little adopted, by the Mexican azogueros.

The process of amalgamation, in the cold way, or *de pie*, as it is termed in Guanajuato, is brought to such perfection that it has gained a world-wide celebrity, the degree of perfection of this patio amalgamatiou obtained there is far surpassing that attained in any other portiou of the two Americas. Formerly the rich ores were redueed by fire, and the ruins of several smelting works are still standing; but this proeess has for its costliness been abandoned, and the ores are now exclusively treated by mereury—the charges being fixed the preseut year (owing to the high priee of mereury and mule-feed) at $32.37½ per *monton*, or $20 per ton of 2,000 lbs.

The cheapness and exeellenee of the *beneficio* of Guanajuato arises from the following causes: 1st, working on a large scale; 2d, separation of mining from reducing operations; 3d, fine grinding; 4th, use of chemical assays for guidanee; 5th, use of several vats in the *lavaderos*, or washing machines, to prevent loss of amalgam; 6th, great care in supervising the various stages of the reduction. To these may perhaps be added, 7th, docility in the ores rather superior to the average. To render the

system as practiced in Guanajuato intelligible to the unprofessionable reader, we will take the operations from the beginning and follow them regularly to the last of all—the isolation of the silver from the worthless dross which envelops and masks it.

DESCRIPTION OF THE PROCESS.

We will suppose the hacienda contains fifty arastras, twelve feet diameter, each driven by two stout mules; which will reduce twenty tons *per diem*, and necessitate the employment of twenty stamps, of about 125 pounds each, moved by twelve mules more. At 3 A. M. each arastra is charged with from 700 to 1,000 pounds of ore-sand from the stamps, (dependent on the degree of fineness,) consisting of a mixture of all the ores obtainable from different mines—such mixture invariably facilitating the reduction, and diminishing the loss of silver and mercury. The requisite proportion of water being added, and this is an important point, the grinding is continued for twenty-three hours, or till the *lama*, the pulverized ore, manifests no grittiness on being rubbed strongly against the thumbnail, and till a *tentadura*, or trial sample, after being washed out in a little basin, leaves only an impalpable *asiento*, or deposit of metallic particles. Should the slightest coarseness be perceptible, more water is added to thin the *lama*, and the fluid portion is drawn off by a spigot, leaving the coarser deposit to be reground with the next charge. The ore-mud having been left to drain till it attains the proper consistency, is incorporated with five or six arrobas per montón (four to five per cent.) of salt, or an equivalent amount of saline earth, and spread out in round cakes of twenty-five to one hundred montones, in the *patio*, a large courtyard well paved with flags. Here it is left to absorb and dissolve the salt, and meanwhile portions are removed for the assay, by which the addition of quicksilver is regulated—the proportions being seven to eight pounds for every pound of silver present. The amount of silver obtained by a skillful manager is generally larger than that shown by an assay—an excess arising from several causes, which I have not space to enumerate. After remaining heaped up a greater or less space of time, (usually 24 hours,) to *ensalmorar*, the mercury is added in as fine a state of division as possible, together with about twenty-five pounds to each montón of *magistral*, calcined copper pyrites, or—which is preferred by many—an equivalent quantity (say one-sixth) of crystalized sulphate of copper. It is now well trodden over by mules, horses, oxen, or the feet of men, and left to operate.

SIMPLIFYING THE PROCESS.

Mr. Parkman, an old Santa Fe trader, engaged for some years in silver-reducing, has invented and put into operation, to shorten this expensive and tedious operation, a very simple machine, which after two years experience leaves nothing to wish for. It consists of a pair of high wheels furnished with lateral arms, and so geared by rack-work and pinion as to alternately advance and recede from the center while revolving. Another machine, with treaders, was invented by the Administrador of Barreras, and ran for a few days, but on account of breaking the pavement was laid aside and abandoned. The loss of power in this treading process is excessive, and if some smart Yankee could invent a simple, cheap, and effective machine, that could not be readily broken, to accomplish the result aimed at, a perfect mixture of the ingredients with the ore—he could get a twenty years patent, the blessings of every *beneficiador* in Mexico, and, what is perhaps better, a handsome fortune into the bargain.

The material being more or less perfectly compounded—no globules of mercury being visible in the mass to the naked eye—the labor of the "azoguero" commences. Now comes the tug of war. The state of the "torta," if it requires "repasos," or salt, or mercury, time to "cool," or magistral to "heat" it, are all determined by the *tentadura*, or "panning out," and in this consists the entire success of the operation—the whole science of the *azoguero*.

After each new addition another *repase* is given, and sometimes when no addition is necessary, and from time to time the amalgam is assayed to see if it indicates a gain of silver. When one or two marcs per torta is all that is gained *per diem*, and the *limadura*, or fine particles of amalgam in the tail of the *tentadura* appears opaque, not lustrous, and, on being rubbed gently against the side of the bowl, gives off grains of running mercury, the *beneficio* is considered finished, and the torta is carried to the *lavadero*, to be washed. This part of the process is important, as on it depends the saving of the silver already reduced and amalgamated. It is conducted on different principles in different parts with more or less perfect results.

[To be Continued.]

A COLORED girl, who had been blind for five months, received her sight immediately after the explosion of the powder magazine at Richmond.

Mechanical.

THE FOUNDRIES.

At the MINERS' FOUNDRY we were shown the castings of a large sugar mill, intended for Messrs. E. Bailey & Son, of Wailuku, Maui, Sandwich Islands, said to be the first of its size ever built in this State. Compared with the various agricultural machines with which we of the Northern States are acquainted, this is truly a monster of weight and strength. The three rollers are each twenty inches in diameter, and about four feet in length and supported by a spindle or shaft of hammered iron seven inches diameter. The upper roller is held down by means of four wrought iron bolts, three inches in diameter with nuts of brass. This mill is to be driven by water-power, and the castings for the water-wheel, together with the iron-work for a complete sugar manufactory of the first class, are being made at this establishment. The proprietors of this foundry have commenced manufacturing both the old and new styles of Hepburn & Peterson's amalgamators, several of which were building at the time of our visit, on an order from parties in Washoe. We also noticed one of those most novel of novelties, the Hopkins' Amalgamator in course of construction, and were told that several had been built lately and that they were in increasing demand.

At the VULCAN and PACIFIC FOUNDRIES there was fully the usual amount of general and ordered work, though nothing new of special interest had been commenced since our last visit.

From the FULTON had just been shipped one of Dunbar's crushers and one of Moore's grinders, together with an engine seven inches in diameter of cylinder and sixteen inches stroke, capable, it is thought, of crushing and grinding ten tons of quartz daily. They are also making a double-acting force-pump, sixteen inches in diameter and seven feet stroke, for Reedy & Co., of La Grange, Stanislaus county. This pump is to be driven by water-power, and used for raising water from the river to the top of the adjacent bluffs for hydraulic mining purposes. In addition to these and some other mining orders, including one for four of Prater's Concentrators which are now nearly finished, a twelve-inch engine twenty-four inch stroke, has just been built for a saw-mill at Portland, Oregon.

Messrs. Palmer, Knox & Co., of the GOLDEN STATE, are making the iron work for three bridges for the Central Pacific Railroad Co., which they hope to ship soon. Among the mining orders now being filled we noticed a five-stamp battery for Robinson & McCartney, of the new Crystal Peak district, and another for the California Furnace Company. A ten-stamp mill, with six of KNOX's amalgamators, had just been finished for the Excelsior Mill & Mining Company, of Virginia City, also complete hoisting gear for the Bunker Hill mine, Amador county. This firm are now building one of Lundgren's pulverizers, a new Eastern invention, which has at least the merit of being novel if nothing more. It consists of a revolving hollow drum, containing equal weights of the ore to be crushed and of half-ounce cast iron bullets. This machine is to be sent to Mexico, where if it should not succeed as a pulverizer, the *bullets* at least, in the present disturbed state of that country, can be made useful.

From the Golden State we repaired to GARRATT'S BRASS FOUNDRY on Market street, in company with Mr. Hanscom of the former establishment. Here we were very politely received and every facility given us for viewing this fine establishment. On the second floor of the building we were shown three new lathes just imported from Boston, which Mr. Garratt informed us were to be employed solely in manufacturing "stock work," all orders for special kinds of work being attended to by the workmen on the ground floor. The lathes in question were of the highest character of finish and general execution, being, in fact, the finest specimens of Eastern manufactured machinery we have ever seen on this coast.

The principal work at this foundry is cast work for steam engines, though large bells are also made a speciality. We were shown some very fine specimens of work intended for the Fair of the Mechanics' Institute, to be held in August next, together with some superior work exhibited last year.

CUTTING STEEL WITH SOFT IRON.—"We give, for the benefit of those interested in the experiment, the particulars of the apparatus lately constructed for the Franklin Institute, to repeat Perkins' experiment of cutting hardened steel with a soft iron disk rotating at a high velocity. A disk of steel, such as is used for circular saws, but annealed so as to be very soft, is mounted on a steel spindle, which carries also a three-inch cast-iron pulley, and the whole is then carefully balanced until it will rest indifferently in any position, on two straight edges. This spindle, etc., is then mounted in cast-iron swiveled bearings. A belt, 2 inches wide, on the pulley, is driven from a 36-inch pulley on an ordinary shaft, which carries also a 10-inch pulley, to which motion is given by a 4-inch belt from a 48-inch pulley on the engine shaft. The engine was run 120 revolutions per minute, which would give, with every allowance for "slip," between 5,000 and 6,000 revolutions per minute to the disk. At this velocity the hardest files were cut like soft wood, with the production of a blaze of light and showers of sparks, without the least injury to the edge of the soft disk."—*Journal of the Franklin Institute.*

Mr. Perkins reported the result of this experiment in one of the London journals; and gave credit to a young mechanic in Maine as being the originator of it. Fourteen years ago we met the original discoverer, who was then residing in New York. We do not remember his name. The discovery was accidental; he put into a lathe a disk of soft iron, which he wished to smooth by holding a file upon it as it revolved. The file was cut into. He thought it was broken; and tried again, and was surprised to find that it was cut. This was published, and Perkins read the report, and tried the experiment; and it was by this means that it became known to the mechanical world.—*Ex.*

GLASS TURNING—A CURIOUS DISCOVERY.—Glass may even be turned in a lathe. Strange as it may seem, this is literally true. No special tools even are needed; any amateur turner who has operated on either of the metals may chuck a piece of glass on his lathe and turn it with the same tools, and in the same way, as he would a piece of steel, only taking care to keep the chips from his eyes. This strange discovery was made, almost accidentally, in the year 1860, by one of our most celebrated mechanical engineers, and might have been patented, but the inventor contented himself with simply putting it on record, and generously presented it to the nation. The consequence was, that no one cared or thought about it, and the idea has been suffered to lie nearly barren, though capable of being turned to great account. Let any amateur mechanic make the experiment, and he will be surprised at the ease with which this seemingly intractable material may be cut and fashioned according to his will.—*Chambers' Journal.*

ANOTHER LARGE CASTING.—Another huge anvil block has been cast at the works of J. M. Stanley & Co., Midland, England. The casting weighed 160 tons, and was a perfect success. The previous one, the casting of which we recently noticed, weighed the same amount, and was six weeks in cooling before it could be removed from the mould. The fans employed at the last casting were driven at a speed of 1,400 revolutions per minute; a portion of them were run up to 1,600. This firm is celebrated for possessing the largest anvils in the world, and the most extensive and complete set of steel melting pots.

HARDENING OF BURNT CLAY.—At Rivieres, France, they make tiles and bricks of a sandy clay which contains 32 per cent. of chalk. When first burnt, they are so tender that, unless they are carefully handled, they fall to pieces. As soon, however, as they are cold enough to touch, they are quickly removed from the furnaces and carefully stacked. They are then soaked with water, by the action of which they are so hardened that they may be used the next day for building. This fact is, perhaps, easily capable of a chemical explanation, and brickmakers may be able to gather a hint from it.—*Chemical News.*

IRON CLOTHES LINE.—An eastern writer recommends the use of galvanized telegraph wire for clothes lines. The wire being galvanized, it will not rust, and therefore can remain out in all kinds of weather without injury.

PACIFIC GLASS WORKS.

We understand that the Pacific Glass Works, at the Potrero, are now in most successful and active operation. During the week ending July 1st, 32,400 bottles were manufactured at that establishment. The demand for this description of ware, in this State, is very large and rapidly increasing, as it grows out of the wine business to which we can scarcely set limits. We understand that the Pacific Works makes this class of ware a specialty, and that out of it the establishment is making a fair profit, besides doing much to encourage and facilitate the building up of what is destined, ere long, to become an important industry in California. The recent starting in this city of a second establishment for the manufacture of glass, and which we noticed at considerable length last week, affords good evidence of the necessity, the profit, and the permanency of the business. We trust that stockholders in both institutions will realize their most sanguine anticipations of success. Our citizens should bear in mind that we have three establishments in our midst, and in making their purchases, should always give preference, all other things being equal, to home manufacturers. For ourselves, we shall patronize the apothecaries and lamp stores that buy prescription bottles and lamp chimneys at the San Francisco Glass Works, at the foot of Third street; and the wine merchants that send their orders for bottles to the Pacific Glass Works, on the Potrero.

FURNACE IMPROVEMENTS—In the reduction of copper ores, Messrs. Spence and Heath, of Manchester, England, have patented an invention to economize fuel and labor in connection with the preliminary expulsion of sulphur and absorbing of oxygen (calcining) and subsequent fusion of the ore. The invention consists in annealing the heat used in smelting copper ores to the purpose of calcining such materials, and transferring the calcined ores direct to the smelting furnaces. To accomplish these objects they place the two furnaces in connection with each other, and cause a suitable flue to convey the heat used in smelting to the material to be calcined, and when this operation is complete, and the smelted ore is removed, they rake the calcined ore direct on to the bed of the smelting furnace.

A NEW CRUSHER.—The Los Angeles *News* speaks of another Los Angeles invention, which that paper describes as a new Quartz Crusher, represented in a 12-stamp model, invented by D. Saxton, of San Gabriel. It is pronounced by experienced quartz miners to have superior practical qualities. The application of power differs from all other crushers now in use.

AN ingenious Oregonian has invented a machine for separating gold from dirt without the use of water.

THE THEORY OF SMALL MEN.—It is a curious fact, that a large majority of distinguished men, whether in the field, the cabinet, the forum, or in the illimitable arena of arts and sciences, have been under-sized; but few have been of a lofty stature. Who can account for this, but on the hypothesis that they were perfect copies, even to the physique of the mother nature? A Teuton was asked how he came to have so feminine a face? "Because my moder was a woman," responded honest Hans. If we examine the early histories of eminent men, we find that they nearly all received their early training from women; we shall find that the subtle essence that thrilled into life their dormant powers, emanated from the soul of woman—mother or instructor. St. Chrysostom, St. Augustin, Louis IX. of France, and the Wesleys, are brilliant specimens of the mother's training. In the eyes of woman depreciators, it must appear an odd freak to constitute women the brain moulders of monarchs and statesmen; such, nevertheless, was frequently the case.—*Knickerbocker.*

BIRDS.—We know of nothing more cruel and heartless than the wholesale slaughter of the small birds, so common in many of our towns. The farmer owes more to birds than he is apt to admit. They destroy innumerable insects which would prey upon his fruits and injure his crops. If the robin, the cherry-bird, the cat-bird, or any other, is disposed to make a dive at the strawberry bed or the cherry tree, there are modes of preventing them from taking all. If they want a few, better let them have them than to kill them.

City Stock Reports---San Francisco Stock and Exchange Board.

From the "Weekly Stock Circular" of the Associated Brokers.

SAN FRANCISCO, SATURDAY MORNING, July 15th, 1865.

Continued ease and abundance are the prevailing features in the money market. The demand is moderate, and Bank accommodations rule at 1¼@1½ ₱ cent. per month. The outside requirement for stocks and other speculative purposes is of no magnitude, and negotiations are made without difficulty at 1½@2½ ₱ cent. per month.

Receipts of treasure from the interior, since Saturday last, amounted to $1,200,000, making an aggregate of $2,000,000 thus far during the current month. The supply of bullion is thought to be ample for Monday's steamer, and gold bars are selling at 820@830. Silver is unchanged, and may be quoted at about par for average lots.

The arrivals of treasure in this city from all sources during the first half of the current year, have been as follows :

From California	$17,200,000
From Nevada	8,200,000
From Coastwise Ports, North and South	2,500,000
Imports, foreign	1,000,000
Total	$29,300,000

The above figures include coin as well as bullion. The total recorded receipts of the latter, for the first six months of this year, amounted to $25,000,000, showing an increase of $2,200,000 as compared with a corresponding period last year. The receipts from Nevada, (nearly all of which were bullion,) during a like period in 1864, were $7,800,000 ; an increase this year of $800,000.

The product of all the mines on this coast, received through regular channels and in private hands, from January 1st to June 30th, has probably reached $30,000,000, being about $2,000,000 in excess of last year. The exports of treasure from this port during the same period amounted to $23,000,000, (including $2,000,000 shipped on Government account,) as against $29,000,000 in the first half of 1864.

The following figures serve to show, in some degree, the currency movement of the past six months :

Coin remitted to the interior	$5,665,281
Coin received from the interior	2,682,739
Added to interior circulation	$2,982,542

We have been requested to call attention to the new schedule of commissions adopted by the Stock and Exchange Board, and to publish the 35th article of their by-laws, as follows: "Any member doing business for less than the regular commissions, shall, on due conviction, for the first offense, be suspended for the term of ten (10) days, and a fine of one hundred ($100) dollars. For the second offense—suspended for thirty (30) days, and a fine of two hundred ($200) dollars. For the third offense—expulsion from the board. All excise taxes upon the sale of stocks shall be paid by the broker. Also, it is fully and distinctly understood, that the commissions hereafter to be charged, shall be upon all purchases and upon all sales, and that the full amount shall be charged and no less sum received, except the principal or customer shall be a broker, belonging to some organized board of stock brokers, with whom a division of commission shall be allowed." The penalties herein prescribed are severe, but just, and in view of the reduced scale of commissions, henceforth there should be no abatement of the regular charges, except as above stated.

Legal Tender Notes revived a little, early in the week, under receipt of telegraphic advices from the East, to the 27th ult., quoting gold at about 141, and small sales were made at 74c@74⅛c, since then the market has been dull at about 73⅝c@73¾c.

The Mining Share Market, since Saturday last, has been apathetic but rather firm so far as regards most leading stocks, while some lower priced shares were exceedingly active at enhanced rates and are well sustained at the close.

Gould & Curry met with small sales at $1,730, seller 30, and $1,750 cash, and is now firmly held at $1,775.

Savage has been dealt in to the extent of 26 feet, rising from $1,390 to $1,420, receding to $1,400, then selling at $1,410, and closing at $1,375 asked. There is no material change in the upper portion of the mine. Work has been resumed upon the body of ore found in the lower level.

Alpha is inactive but well sustained. Trifling sales were made at $1,400, and $1,425 was bid at the close. The company have commenced to hoist ore from the lower level.

Yellow Jacket has not fluctuated materially, and 36 feet changed hands, opening at $1,065, receding to $1,015, rallying to $1,065, and selling yesterday at $1,050@$1,060, closing at $1,070 bid.

Crown Point rose from $760 to $810, then sold at $830, and closed at about $840. The shaft is now down some 45 feet from the 230 foot level, and at a depth of 300 feet from the surface a new level will be opened. Receipts of bullion from this mine for the past month amounted to $35,000. Belcher is in better favor and has been actively dealt in at enhanced rates, advancing from $720 to $800, receding to $780, rallying to $875, and closing at $840 bid. Some 68 feet were sold within this range.

Ophir has been steadily maintained at $480@490, and closes at $490 asked. The second trial of the Moscow *vs.* this company is now progressing. The Woodworth Mill, on the Carson, is in good condition again, and running up to its full capacity of 30 tons per day. The receipts of bullion thus far for the current month amount to $26,500. The company are drifting at a depth of 580 feet from the Mexican shaft, into the ledge directly west, and then propose to go south on the ledge. Hale & Norcross is in more favor, and rose from $500 to $600, closing at $600 bid.

Chollar advanced from $330 to $370, fell to $342, and sold yesterday at $465@$450. Potosi rose from $325 to $350, receded to $320, advanced to $365, and was dealt in at the close at $440@445. The work of development continues with vigor in these claims, and it is said that a body of good ore has been disclosed in the lower level of the Potosi.

Uncle Sam has been quite a feature of the market this week, and some 600 shares were sold, advancing from $265 to $390, dropping to $300, and changing hands yesterday at $265@$235. Overman has shared in this improvement, advancing from $270 to $360, and closing at $295@$300. Important developments are reported in this mine. In running 130 feet north from the shaft in the lower or 500-feet level, a vein of ore fifty feet wide has been disclosed in the cross-cut, and in drifting in the same direction 150 feet from the shaft, in the 406-feet level, a large body of ore has been found. In the 225-feet level indications also point to a continuation of the same deposits found below.

Imperial has been well maintained, and 610 shares were sold, advancing from $235 to $250, receding to $235, and selling yesterday at $238@$237½. Advices from this claim continue favorable, and the receipts of bullion are likely to be largely increased this month. The company have accumulated a reserve of some 1,000 tons second-class and more than 100 tons of first-class ore. For the latter $350 per ton has been offered at the mine, but it is expected to yield $450 per ton. About 100 tons, in all, per day are now hoisted to the surface and both mills are actively employed.

Bullion was sold at $175@$180, and closed at $180. North American rose from $27 to $60, fell to $47, and sold yesterday at $35@$44. Baltimore American rose from $15 to $35 and sold at the close at $25. Baltic rose to $27½, dropped to $20, and closes at $25. Moscow closes at $30.

The aggregate sales of Stocks and Legal Tender Notes since Saturday last, amounted to $1,397,442.

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, July 8.

5 shs Savage at 1450@1420 per foot.
1 sh Savage at 1420 per fool, s 3.
71 shs Uncle Sam at 275@285 per foot.
5 shs Uncle Sam at 285 per foot, b 5.
9 shs Uncle Sam at 265 per foot, s 30.
2 shs Uncle Sam al 285 per foot, h 10.
12 shs Hale & Norcross at 500@540 per foot.
47½ shs Overman at 275@285 per foot.
7 shs Overman at 285 per foot, h 5.
60 shs Ophir at 485@490 per foot
52 shs Chollar at 330@335 per foot.
21 shs Belcher at 720@725 per foot.
2 shs Yellow Jacket al 1065 per foot.
12 shs Potosi at 325 per share.
143 shs Imperial at 235@236 per share.
185 shs Burning Moscow at 32½@34 per sh.
20 shs Burning Moscow at 33½ per sh, s3.
20 shs Burning Moscow at 34 per share, b 3.
10 shs Burning Moscow at 34¼ per sh, h 10
5 shs North American, Ex Sam, 27½ pr sh.
5 shs Bullion at 175 per share.
10 shs Bullion al 180 per share, h 3.
10 shs Bullion at 180 per share, b 5.
7 shs Cal. Steam Nav. Co. at 77 per cent.
10 shs San Francisco Gas Co. at 92 per cent.
20 shs Pacific Ins. Fund at 142 per share.
No afternoon session.
Amount of sales.....$148,652 00

Monday, July 10.

12 shs Chollar at 335 per foot.
4 shs Chollar at 340 per foot.
8 shs Chollar at 335 per foot, s 20.
10 shs Chollar at 345 per foot.
4 shs Chollar al 347 per foot.
8 shs Chollar al 347½ per foot.
4 shs Chollar at 350 per foot.
24 shs Chollar at 355 per foot.
8 shs Chollar al 355 per fool, s 3.
2 shs Chollar at 357½ per foot.
1 sh Uncle Sam at 310 per foot.
10 shs Uncle Sam at 300 per foot, s 30.
2 shs Uncle Sam at 315 per fool.
1 sh Uncle Sam at 325 per fool.
1 sh Uncle Sam at 330 per fool.
17 shs Uncle Sam at 335 per fool.
21 shs Uncle Sam at 332½ per foot.
6 shs Hale & Norcross at 550 per foot.
2 shs Hale & Norcross at 555 per foot.
12 shs Overman at 330 per foot.
5 shs Overman at 330 per foot, h 3.
10 shs Potosi at 335 per foot.
16 shs Potosi at 340 per foot,
26 shs Potosi at 345 per foot.
4 shs Alpha, G. H., at 1415 per foot,
4 shs Alpha, G. H., at 1410 per foot.
16 shs Alpha, G H, at 1400 per foot.
1 sh Yellow Jacket at 1030 per foot.
2 shs Yellow Jacket at 1020 per foot.
1 sh Yellow Jacket at 1020 per foot, r w.
1 sh Yellow Jacket al 1015 per foot, r w.
2 shs Yellow Jacket al 1015 per foot, s 3.
4 shs Gould & Curry al 1730 per foot, s 30.
4 shs Could & Curry al 1750 per fool, s 3.
3 shs Belcher al 740 per foot.
12 shs Belcher al 750 per foot.
45 shs N. American, Ex Sam, at 30 per sh.
10 shs Imperial at 240 per share.
20 shs Imperial at 242½ per share.
83 shs Imperial al 243 per share.
8 shs Imperial al 244 per share.
30 shs Imperial at 245 per share.
30 shs Wide West at 7¼ per share.
20 shs Burning Moscow al 32 per share, r w.
20 shs Burning Moscow at 32 per share, s 3.
10 shs Cal. Steam Nav. Co. at 77 per cent.
$ 3,800 Legal Tender Notes at 74 per cent.
$ 5,000 Legal Tender Notes at 74¼ per cent.
$10,000 Legal Tender Notes at 74¼ per cent.

AFTERNOON SESSION.

1 sh Savage at 1410 per foot.
2 shs Savage at 1400 per foot.
4 shs Savage at 1400 per foot, r w.
336 shs Ophir at 480 per foot.
24 shs Ophir at 485 per foot.
36 shs Ophir at 486 per foot.
5 shs Uncle Sam at 350 per foot.
1 sh Uncle Sam at 348 per foot.
4 shs Uncle Sam at 337½ per foot.
5 shs Uncle Sam at 345 per foot.
1 sh Yellow Jacket at 1015 per foot.
3 shs Belcher at 770 per foot.
12 shs Belcher at 775 per foot.
5 shs Overman at 342½ per foot.
12 shs Alpha, G H, at 1400 per foot, s 3.
10 shs Potosi al 347½ per foot.
10 shs Potosi at 350 per foot.
20 shs Chollar at 360 per foot, s 30.
4 shs Chollar at 370 per foot.
22 shs Imperial at 250 per share.
5 shs Imperial at 247 per share, r w.
2 shs Imperial al 248 per share.
10 shs Imperial at 245½ per share.
25 shs Imperial al 245 per share.
10 shs Imperial al 244 per share.
50 shs Imperial at 243 per share.
20 shs Burning Moscow at 31 per share, r w.
13 shs Burning Moscow at 31 per share.
10 shs Burning Moscow at 30¾ per share.
20 shs Burning Moscow at 30 per share, s 3.
100 shs Burning Moscow at 30 per share.
10 shs Burning Moscow at 32 per share, h 10.
10 shs Burning Moscow at 29½ per share.
10 shs Burning Moscow at 29 per share.
20 shs N. American (Ex Sam) at 32½ per sh.
30 shs N. American, Ex Sam, at 34 per sh.
10 shs N. American, Ex Sam, at 35 per sh.
Amount of sales.....$244,700 00

Tuesday, July 11.

4 shs Gould & Curry at 1750 per foot.
4 shs Gould & Curry al 1750 per fool, r w.
16 shs Uncle Sam at 340 per share.
7 shs Uncle Sam at 335 per foot.
5 shs Uncle Sam at 332½ per foot.
5 shs Uncle Sam al 326 per foot.
25 shs Uncle Sam at 325 per foot.
69 shs Uncle Sam at 330 per foot.
5 shs Uncle Sam at 300 per fool, s 30.
5 shs Uncle Sam at 329 per foot.
1 sh Savage at 1400 per foot, s 20
3 shs Belcher at 780 per foot.
3 shs Belcher at 782½ per foot.
6 shs Belcher at 790 per foot.

FEDERAL, STATE, CITY AND COUNTY BONDS.

NAME.	Bid.	Asked.	Amount. Outstanding.	Interest, When Payable.	Interest, Where Payable.	Principal, When due.	Remarks.
United States Notes, 7 3-10	74	74	.....	Feb. Aug. April and Oct	U. S. Treasury	.....	
Legal Tender Notes	73½	73⅝	.....	.....	.....	.....	
California State Bonds, 7s, 1857	80	82	3,620,500	.....	.....	...1867	
San Francisco Bonds, 10s, 1851		105	1,352,600	May and November	San Francisco	...1871	
San Francisco Fire Bonds, 10s, 1854		105	170,500	January and July	New York	...1866	
San Francisco City Bonds, 8s, 1855	65	—	329,000	January and July	New York	...1875	
San Francisco City and County Bonds, 6s, 1858	63	65	1,133,500	January and July	San Francisco	...1888	
San Francisco School Bonds, 7s, 1854			42,000	May and November	New York	...1886	
San Francisco School Bonds, 10s, 1860		100	59,500	January and July	New York	...1870	
San Francisco School Bonds, 10s, 1861		100	20,000	January and July	New York	...1870	
San Francisco City and County Bonds, 7s, 1882	73	75	300 000	.....	San Francisco	.....	Subscribed to S. F. & S. J. R. R.
Sacramento City Bonds		30	1,416,000	.....	.....	.....	
Sacramento County Bonds, 0s	45	50	440,000	.....	.....	.....	
Marysville Bonds, 10s	75	77	.....	.....	.....	.....	
Stockton City Bonds	72	80	220,000	.....	.....	.....	
Yuba County Bonds, 10s	80	90	230,000	.....	New York	.....	
Santa Clara County Bonds, 7s	65	75	200,000	.....	.....	.....	
Butte County Bonds, 10s, 1860	89	80	200,000	.....	.....	.....	
San Mateo County Bonds, 7s	80	70	100,000	January and July	Oroville	...1880	Issued to Northern California R. R.

SAN FRANCISCO AND MISCELLANEOUS STOCKS.

NAME	Bid.	Asked.	No. of Shares.	Incorporate Val. ₱ share.	Amount Paid per share.	Dividends.	Remarks.
California Steam Navigation Co	75	76	2,500	$1,000	Full Paid	2 ₱ ct. ₱ month on capital stock.	
State Telegraph Co	30	34	25,000	100	Full Paid	$1 ₱ share quarterly	
San Francisco Gas Co	90	95	20,000	100	Full Paid	1 ₱ ct. ₱ month on capital stock.	
Sacramento Gas Co		63	1,000	500	Full Paid	10 ₱ ct. ₱ annum on capital stock	
Spring Valley Water Co	49¾	50	60,000	100	.....	½ ₱ ct. ₱ month on capital stock.	
Virginia and Gold Hill Water Co		90	1,000	250	.....	$7.50 ₱ share ₱ month	
Sacramento Valley Railroad Co	—	—	8,000	100	$100	.....	
Omnibus Railroad Co	—	—	10,000	100	41 ₱ cent.—$41.	½ ₱ ct. ₱ month on capital stock	
Central Railroad Co		—	5,000	100	.....	Assessment of $3 levied July 12.	
North Beach and Mission Railroad Co	37	38	10,000	100	$8 ₱ cent,—$38.	½ ₱ cent ₱ mnth on Capital Stock	
San Francisco and San Jose Railroad Co			20,000	100	Full Paid	.....	
California Building, Loan and Savings Society			2,500	100	Full Paid	1½ ₱ cent ₱ month	Dividend payable May and Nov.
South San Francisco Homestead and R. R. Ass'n	—	—	500	300	.....	.....	
Fireman's Fund Insurance Co	—	110	20,000	10	Full Paid	.....	Assets $282,383 January 1st.
Pacific Insurance Co	142	145	7,500	100	Full Paid	$6 ₱ share paid quarlly	Assets $917,442 January 1st.
San Francisco Insurance Co	—		300	500	Full Paid	1½ ₱ cent ₱ month	Assets $238,500 January 1st.
Merchants' Mutual Marine Insurance Co			100	5,000	10 ₱ cent	.....	Cash Capital $188,880
California Insurance Co			200	1,000	50 ₱ cent	.....	Assets $246,047—Surplus $21,683
Bank of Pacific Accumulation Loan Company			50,000	100	.....	1½ ₱ cent ₱ mo. on am't paid in	
Pittsburg Coal Mining Co. (Mt. Diablo)			200	500	.....	.....	
Black Diamond Coal Mining Co. (Mt. Diablo)	—		5 000	100	.....	.....	
Eureka Coal Mining Co			4.000	25	.....	.....	
Bellingham Bay Coal Co			10,000	100	Full Paid	¼ ₱ et. ₱ month on capital stock	45th dividend paid.

5 shs Belcher at 795 per foot.
12 shs Belcher at 800 per foot.
6 shs Belcher at 792½ per foot.
5 shs Overman at 330 per foot, r w.
4 shs Overman at 325 per foot.
2 shs Overman at 330 per foot.
2 shs Potosi at 340 per foot.
16 shs Chollar at 350 per foot.
2 shs Yellow Jacket at 1020 per foot.
2 shs Yellow Jacket at 1017½ per foot.
1 sh Yellow Jacket at 1015 per foot, s 3.
2 shs Yellow Jacket at 1015 per foot.
3 shs Yellow Jacket at 1016 per foot.
10 shs Wide West at 8 per share.
79 shs N. American, Ex Sam, at 34 per sh.
75 shs N. American, Ex Sam, at 36 per sh.
30 shs N. American, Ex Sam, at 35 per sh.
5 shs N. American, Ex Sam, at 37 per sh.
15 shs N. American, Ex Sam, at 37½ per sh.
20 shs N. American, Ex Sam, at 36, b 3.
5 shs Imperial at 242½ per share.
1 sh Imperial at 240 per share.
1 sh Imperial at 238 per share.
10 shs Imperial at 235 per share.
10 shs Imperial at 235 per share, r w.
5 shs Imperial at 237½ per share.
10 shs Burning Moscow at 29¼ per share.
45 shs Burning Moscow at 29 per share.
10 shs Burning Moscow at 29 per share, r w.
10 shs Baltimore American at 15 per share.
30 shs Pacific Insurance at 142 per cent.

AFTERNOON SESSION.

4 shs Overman at 330 per foot.
8 shs Overman at 330 per foot, s 3.
32 shs Chollar at 345 per foot
12 shs Chollar at 346 per foot.
12 shs Uncle Sam at 335 per foot.
18 shs Uncle Sam at 340 per foot
5 shs Uncle Sam at 339 per foot
15 shs Uncle Sam at 342½ per foot
5 shs Uncle Sam at 344 per foot.
14 shs Uncle Sam at 345 per foot.
5 shs Uncle Sam at 350 per foot.
1 sh Uncle Sam at 343 per foot.
2 shs Uncle Sam at 346 per foot.
3 shs Uncle Sam at 347 per foot.
9 shs Uncle Sam at 348 per foot.
5 shs Overman at 340 per foot.
8 shs Overman at 339 per foot, s 3.
2 shs Yellow Jacket at 1015 per foot, s 3.
10 shs Potosi at 330 per foot
10 shs Potosi at 332½ per foot.
5 shs Imperial at 239 per share.
5 shs Imperial at 240 per share, r w.
12 shs Imperial at 240 per share.
5 shs Imperial at 242½ per share.
5 shs Imperial at 242 per share.
20 shs N. American, Ex Sam, at 33 per sh.
20 shs N. American, Ex Sam, at 40 per sh.
30 shs N. American, Ex Sam, at 41 per sh.
45 shs N. American, Ex Sam, at 42 per sh.
25 shs N. American, Ex Sam, at 43 per sh.
10 shs N. American, Ex Sam, at 42½, b 3.
10 shs Burning Moscow at 31 per share.
40 shs Burning Moscow at 30 per share.
10 shs Burning Moscow at 29½ per share.
32 shs S F Gas Co at 85 per cent.
Amount of sales.....$236,560 00

Wednesday, July 12.

13 shs Uncle Sam at 370 per foot.
3 shs Uncle Sam at 375 per foot.
3 shs Uncle Sam at 375 per fool, h 10.
20 shs Uncle Sam at 377¼ per foot.
6 shs Uncle Sam at 380 per foot.
2 shs Uncle Sam at 378 per foot.
26 shs Potosi at 330 per foot.
4 shs Hale & Norcross at 560 per foot
1 sh Yellow Jacket at 1025 per foot.
1 sh Yellow Jacket at 1030 per foot.
18 shs Belcher at 780 per foot.
36 shs Ophir at 485 per foot.
28 shs Chollar at 345 per foot.
5 shs Overman at 360 per foot.
46 shs N. American, Ex Sam, at 55 per sh.
5 shs N. American, Ex Sam, at 55, r w.
20 shs N. American, Ex Sam, at 57½ per sh.
70 shs N. American, Ex Sam, at 60 per sh.
115 shs N. American, Ex Sam, at 59 per sh.
10 shs N. American, Ex Sam, at 58 per sh.
55 shs N. American, Ex Sam, at 57½ per sh.
55 shs N. American, Ex Sam, at 56 per sh.
20 shs Burning Moscow at 31 per share.
10 shs Burning Moscow at 30 per share.
30 shs Imperial at 240 per share.
5 shs Imperial at 242 per share.
13 shs Imperial at 243 per share.
30 shs Imperial at 244 per share.
9 shs Imperial at 245 per share.
10 shs Sierra Nevada at 10 per share.
5 shs Bullion at 177½ per share.
5 shs Bullion at 175 per share.
3 shs Cal. Steam Nav. Co. at 76 per ct, s 3.
5 shs Cal Steam Nav Co at 76 per cent.
20 shs S F Gas Co at 92 per cent.

AFTERNOON SESSION.

3 shs Belcher at 795 per foot, h 3.
3 shs Belcher at 785 per foot.
3 shs Belcher at 790 per foot.
3 shs Belcher at 790 per foot, r w.
6 shs Belcher at 795 per foot.
12 shs Belcher at 800 per foot.
3 shs Belcher at 805 per foot.
6 shs Belcher at 805 per foot, s 3.
5 shs Uncle Sam at 369 per foot.
10 shs Uncle Sam at 385 per foot.
15 shs Uncle Sam at 387½ per share.
7 shs Uncle Sam at 390 per foot.
6 shs Uncle Sam at 392½ per foot.
4 shs Crown Point at 790 per foot.
4 shs Crown Point at 795 per foot.
4 shs Crown Point at 800 per foot.
6 shs Overman at 630 per foot.
20 shs N. American, Ex Sam, at 60 per sh.
30 shs N. American, Ex Sam, at 59 per sh.
35 shs N. American, Ex Sam, at 55 per sh.
10 shs N. American, Ex Sam, at 57½ per sh.
50 shs N. American, Ex Sam, at 56½, s 3.
40 shs N. American, Ex Sam, at 57 per sh.
5 shs N. American, Ex Sam, at 57, b 3.
10 shs N. American, Ex Sam, at 57, r w.
5 shs N. American, Ex Sam, at 56¾ per sh.
10 shs N. American, Ex Sam, at 57, b 5.
30 shs N. American, Ex Sam, at 56 per sh.
15 shs N. American, Ex Sam, at 55½ per sh,
5 shs Baltic at 27½ per share.
10 shs Lady Bryan at 3 per share.
10 shs Burning Moscow at 29½ per sh, r w.
20 shs Burning Moscow at 30 per share.
20 shs Burning Moscow at 30½ per share.
10 shs Imperial at 245 per share.
Amount of sales.....$198,530 00

Thursday, July 13.

2 shs Savage at 1375 per foot.
2 shs Savage at 1400 per foot.
3 shs Savage at 1400 per foot.
18 shs Potosi at 325 per foot.
4 shs Potosi at 330 per foot.
8 shs Potosi at 327½ per foot.
10 shs Potosi at 326 per foot, steamer day.
3 shs Hale & Norcross at 560 per foot.
3 shs Crown Point at 810 per foot.
2 shs Crown Point at 800 per foot.
2 shs Uncle Sam at 380 per foot.
30 shs Uncle Sam at 340 per foot, s 30.
1 sh Uncle Sam at 345 per foot.
5 shs Uncle Sam at 360 per foot.
1 sh Uncle Sam at 350 per foot.
1 sh Yellow Jacket at 1050 per foot.
6 shs Yellow Jacket at 1025 per foot.
1 sh Yellow Jacket at 1070 per foot.
3 shs Belcher at 810 per foot.
3 shs Belcher at 815 per foot.
6 shs Belcher at 820 per foot.
6 shs Belcher at 825 per foot.
4 shs Chollar at 340 per foot.
8 shs Chollar at 342½ per foot.
4 shs Gould & Curry at 1750 per foot.
5 shs Imperial at 245 per share.
5 shs Imperial at 243 per share
5 shs Imperial at 242 per share.
5 shs Imperial at 241 per share.
15 shs Imperial at 240 per share.
15 shs Imperial at 240 per share, s 3.
85 shs Burning Moscow at 31½, ass't unpaid
30 shs Burning Moscow at 32 per share, b 30,

WASHOE DISTRICT.

Name of Company.	No. of feet in Mine.	Shares per foot.	Total No. of Shares.	Incorporate Value.	BID Per foot.	ASKED Per foot.	Last Mont'ly divid'd P ft.	Recent Assessments Per foot.	Total Asst prft
Alpha	278	4	1,200	$1,000 00	$1,425 00	$1,450 00	....	March 29, $100	$200 00
Bacon M. & M. Co.	45	20	900	800 00	——	250 00	....	$10, pr sh	
Baltimore American	2,600	1	2,600	500 00	20 00	30 00	....	May 4, $5	24 75
Baltic	1,800	1	1,800	200 00	——	17 50	....		45 00
Best & Belcher	224	4	896	500 00	——	200 00	....	Sept 21, $20; Dec. 23	580 00
Burning Moscow	4,100	1	4,100	500 00	34 00	35 00	....	May 18, $5; July 5, $20.	86 34
Burnside	2,800	1	2,800	500 00	3 00	6 00	....	Feb 1, 50c; May 5, $1.	11 50
Belcher	1,040	3	3,120	1,000 00	830 00	850 00	....	$51	
Buckeye	3,000	....	2,800	100 00	——	7 50	....	Dec 13, 2 50 ; April 3, $5.	80 70
Bullion, G. H.	2,500	1	2,500	200 00	180 00	185 00	....	Mar 11, $20; June 6, $40.	
California	300	12	3,600	300 00	——	——	....		
Central	150	12	1,800	300 00	240 00	300 00	....		
Caledonia Tunnel	6,000	1	5,000	400 00	——	0 00	....	Dec 24, $4, Mar 11, $3	22 50
Crown Point	600	4	2,400	1,000 00	830 00	840 00	....		190 00
Confidence	130	12	1,560	500 00	120 00 pr sh	145 00 pr sh	....	$100	
Chollar	1,400	4	5,600	300 00	450 00	455 00	....	$40	May 8, $50 ; June 28, $50.	420 00
Davey	2,000	4	8,000	60 00	——	15 00	....		Nov 5, $8 ; Mar 21, $10.	56 00
Desert	2,200	1	2,200	100 00	——	——	....			8 00
El Dorado	1,600	1	1,600	500 00	——	——	....			27 00
Empire M. & M. Co.	75	16	1,200	833 00	460 00 pr sh	480 00 pr sh	....	$320		
Gould & Curry	1,200	4	4,800	500 00	1,750 00	1,775 00	....	$50		
Grass Valley	4,200	1	4,200	500 00	——	——	....			
Hale & Norcross	400	2	800	500 00	600 00	625 00	....	April 6, $50 ; May 19, $50	575 00
Imperial	184	....	4,000	500 00	235 00 pr sh	238 00 pr sh	....	$10 pr sh	270 00
Iowa	1,200	1	1,200	1,000 00	——	12 00	....			27 00
Lady Bryan	5,000	1	6,000	100 00	6 00	7 00	....	Nov. 1, $5 ; April 6, $2.		23 25
Lucerne	1,800	1	1,800	500 00	——	——	....			35 00
Minerva	890	4	3,000	500 00	145 00	150 00	....	May 3, $100; Jun 28, $100		
Michigan	1,500	1	1,500	100 00	——	17 00	....			
Nevada, J. G.	2,100	1	2,100	200 00	15 00	25 00	....	Oct 26, $10; Dec. 19, $15.		87 00
North Potosi	2,000	1	2,000	200 00	——	10 00	....	Aug 6, $12½; Oct 18, $12½		140 00
North American	4,100	1	4,100	300 00	——	31 00	....	Sept 2 $2 ; Dec. 7, $2.		
North Ophir	1,600	1	1,600	500 00	——	——	....			
Norton	1,600	1	1,600	50 00	——	8 00	....			11 80
Ophir	1,400	12	16,800	300 00	490 00	490 00	....			
Overman	1,200	1	1,200	600 00	300 00	305 00	....	Nov. 19, $50; June 29, 50.		
Potosi	1,400	2	2,800	500 00	440 00	445 00	....	May 8, $50 ; June 27, $50		162 00
Porter	600	1	600	600 00	——	30 00	....			10 00
Pride of the West	1,400	1	1,400	100 00	——	6 00	....	Oct, Nov, Dec 18, $9.		9 00
Savage	800	1	800	2,000 00	1,360 00	1,375 00	....	$75		135 00
Sacramento & Merodith	3,800	4	14,400	125 00	——	12 00	....	June 20, 50c		
Sides	500	2	1,000	500 00	——	175 00	....	Feb 7, $20; May 12, $20.		
Sierra Nevada	3,000	1	3,000	500 00	12 00	16 00	....	Feb 4, $7½		103 50
Spanish No. 2	1,000	1	1,600	500 00	——	10 00	....			
Uncle Sam	1,200	1	2,000	200 00	335 00	340 00	....	Dec 20 $60 June 29, $50		275 00
Whitman	1,800	1	1,800	1,000 00	——	——	....	Mar 25, $10; Jun 18, $7½		27 50
White & Murphy	210	4	840	150 00	——	50 00	....	Oct 6, $18 ; Dec. 31, $6.		281 00
Yellow Jacket	1,200	1	1,200	1,000 00	1,000 00	1,070 00	....	$100	July 21, $30; Aug 4, $110.	250

ESMERALDA DISTRICT.

Antelope	1,200	1	1,200	500 00	8 00	20 00	....		162 50
Bamhoo	600	1	600	500 00	——	——	....	Sept 18, $5; June 20, $2.	21 50
Esmeralda	1,600	1	1,600	1,000 00	——	——	....		12 25
Falls of the Clyde	6,000	1	6,000	100 00	——	——	....	Nov 20, 50c.	2 72
Golden Age and Empire	2,800	1	2,800	250 00	——	10 00	....	$5	
Nevada	600	2	1,200	250 00	——	——	....		
Real del Monte	4,400	1	4,400	400 00	8 00	12 00	....		44 50
Silver Hill	3,000	1	3,000	600 00	2 00	3 00	....		8 25
Ural	400	1	400	500 00	——	——	....	Nov 18, $20.	
Utah	1,600	1	1,600	250 00	4 00	10 00	....		19 00
Wide West	2,600	1	2,600	500 00	8 00	9 00	....	Mar. 8, $5; May 22, $5.	105 00

COSO DISTRICT.

Coso	26,000	....	3,600	600 00	——	——	....		
Josephine	9,600	2	4,800	250 00	——	——	....	Mar 2, $1	14 00
San Carlos	....	....	2,800	100 00	——	——	....		20 50
Willow Springs	2,700	1	2,700	100 00	——	——	....		7 50

HUMBOLDT DISTRICT.

De Soto	1,980	1	1,980	100 00	——	10 00	....	Dec. 12, 2½ ; June 17, 2½	26 85
Sheba	1,800	2	3,600	600 00	13 00	18 00	....	Mar 14, $10 ; May 8, $10.	112 35

REESE RIVER DISTRICT.

Amador	11,200	....	1,400	1,000 00	——	——	....	Feb 28, $5	26 50
Coral	1,000	1	1,400	600 00	——	——	....		8 40
Florida	800	1	800	200 00	——	——	....		
Oregon	800	2	1,800	300 00	——	20 00	....		1 00
Union No. 2	1,000	1	1,000	500 00	——	——	....		2 50
Whitlatch	800	2	1,200	1,000 00	——	——	....	Dec 29, $10; Apr 29, $10.	56 00
Willow	2,800	....	1,400	200 00	——	——	....		
Yankee Blade	1,400	1	1,400	500 00	——	——	....		
North Star	1,000	1	1,000	500 00	——	60 00	....	May 1, $5	5 50
Geo r. Seymour	1,000	1	1,000	600 00	——	——	....		1 60
Diana	1,200	1	1,200	500 00	——	——	....		1 50
Blue Ledge	1,000	1	1,000	1,200 00	——	——	....		2 00
Joe Lane	1,000	1	1,000	500 00	——	——	....		1 50
Honest Minor	1,400	1	1,400	1,000 00	——	——	....		2 00

MEXICO.

Dios Padro	2,200	1	1,920	500 00	——	40 00	....	Dec. 13, $3; May 20, $1½	60 08
Mina Prieta	2,200	1	2,200	1,000 00	——	——	....	Dec. 20, $10.	160 00
Srado Guadelupe	3,000	1	3,000	1,000 00	——	——	....		9 00
San Marcial	13,200	1	13,200	100 00	——	25 00	....		
San Nicholas	1,200	1	1,200	200 00	——	——	....	Sept 10, $2.	

MISCELLANEOUS.

Blue Ledge	7,800	1	7,800	50 00	——	3 00	....	Jun 16, $1½; Oct 6, $1½	
Fellows	2,500	1	2,500	100 00	——	——	....		
Melones	3,000	1	3,000	50 00	——	——	....	Oct 27, 2½ ; Mar 22, $1	
Napoleon	2,700	1	2,700	600 00	——	50 00	....	Jan 18, $12; Juno 30, $5.	32 00
T iunfo, L. C.	7,886	1	7,886	200 00	——	25 00	....	May 18, $2.	17 00

Fluctuations in Leading Mining Shares for the past Six Months.

Name of Company.	Jan. 1st.	Jan. 10th.	Jan. 20th.	Feb. 1st.	Feb. 10th.	Feb. 20th.	March 1st.	March 10th.	March 20th.	April 1st.	April 10th.	April 20th.	May 1st.	May 10th.	May 20th	June 1st.	June 10th.	June 20th.
Gould & Curry.....per ft.	$1,590	1,480	1,500	1,550	1,565	1,825	1,750	1,960	1,900	2,010	2,015	1,975	1,800	1,480	1,660	1,525	1,625	1,645
Ophir	375	300	300	325	365	....	335	440	460	530	590	560	500	490	485	490	500	500
Savage	1,600	1,640	1,600	1,650	1,565	1,620	1,615	1,805	1,750	2,000	2,025	2,020	1,600	1,375	1,300	1,190	1,150	1,425
Potosi	700	700	750	710	750	....	750	885	900	1,130	915	870	180	425	337	202	312	467
Chollar	1,050	1,000	1,020	990	810	910	715	585	700	705	942	850	650	425	375	215	317	455
Hale & Norcross	260	210	220	245	260	235	240	330	350	472	625	550	450	400	455	440	400	550
Sheba	36	30	....	....	....	....	....	20	21	28	....	50	28	....	18	18	18	13
Daney	....	12	14	....	....	....	10	45	25	16	15	....	20	....	32	15	15	15
Wide West	16	13	8	7	6	....	....	14	25	13	17	15	10	9	7	5	4	3
Burning Moscow	28	22	24	35	66	64	63	49	34	37	38	50	47	41	45	40	46	57
Pride of the West	....	....	....	....	....	....	....	8	5	3	....	....	....	....	....	....	....	....
Bullion	115	105	75	78	60	115	110	116	110	110	135	151	150	155	152	135	120	165
Real del Monte	15	....	12	10	....	....	....	12	16	12	14	....	....	....	....	12	10	....
El Dorado	....	....	....	....	....	....	....	10	5	6	....	....	....	....	....	....	....	....
Overman	120	100	90	....	130	215	200	350	300	305	325	320	245	240	180	118	100	120
Sierra Nevada	20	....	35	23	13	17	18	22	23	18	26	22	15	17	14	13	12	14
Yellow Jacket	765	810	865	970	1,480	1,475	1,780	2,350	2,650	2,570	2,500	2,400	2,070	1,515	1,550	1,400	1,320	1,150
White & Murphy	....	....	....	....	....	....	....	50	25	15	....	....	....	....	....	....	....	....
Sides	....	....	....	....	....	....	....	100	50	25	....	....	....	....	....	....	....	....
Uncle Sam	170	180	210	270	350	275	325	370	325	330	320	285	250	245	200	115	100	156
Baltic	15	....	....	22	....	....	....	20	22	20	15	....	....	....	....	....	....	....
North American	....	....	....	15	15	29	31	44	41	32	34	....	30	....	25	30	18	15
Baltimore American	....	....	....	....	....	....	....	20	20	21	....	....	....	....	....	....	....	....
Melones	....	....	....	....	....	....	....	10	5	3	....	....	....	....	....	....	....	....
Antelope	50	....	....	....	....	....	....	20	15	20	23	....	....	....	....	....	....	....
Napoleon	....	....	....	....	....	....	....	50	55	50	....	....	....	....	....	....	....	....
Sacramento	....	....	....	....	....	....	....	10	5	8	....	....	....	....	....	....	....	....
Utah	5	....	....	....	....	....	....	5	5	3	....	....	....	....	....	....	....	....
Lady Bryan	6	8	8	....	....	....	9	13	8	11	....	....	....	....	....	....	....	....
Imperial	120	120	128	120	135	....	150	145	192	200	213	205	235	232	225	139	175	217
Crown Point	....	650	650	700	720	900	1,070	1,400	1,450	1,400	1,360	1,170	1,000	1,000	885	725	780	750
Belcher	....	....	975	980	1,025	1,180	1,250	1,650	1,600	1,600	1,600	1,620	1,210	1,200	1,105	925	620	695

10 shs Burning Moscow at 31½ per share.
50 shs Burning Moscow at 30 per share.
10 shs Burning Moscow at 30¼ per share.
10 shs Petaluma Mill at 105 per share.
5 shs Antelope at 7½ per share.
10 shs Lady Bryan at 3 per share.
20 shs Lady Bryan at 3¼ per share.
20 shs Baltimore American at 40 per share.
62 shs Baltimore American at 35 per share.
35 shs Baltimore American at 35 p sh, s 3.
20 shs Baltic at 26 per share.
20 shs Baltic at 23 per share.
5 shs Baltic at 20 per share.
15 shs N. American, Ex Sam, at 55 per sh.
10 shs N. American, Ex Sam, at 50, b 10.
40 shs N. American, Ex Sam, at 50 per sh
15 shs N. American, Ex Sam, at 49 per sh.
5 shs N. American, Ex Sam, at 48½, s 3.
6 shs N. American, Ex Sam, at 47 per sh.
20 shs Wide West at 10 per share, s 3.
20 shs Sierra Nevada at 12 per share.
10 shs Bullion at 180 per share.

AFTERNOON SESSION.

6 shs Belcher at 850 per foot.
8 shs Belcher at 860 per foot, s 3.
8 shs Belcher at 860 per foot.
3 shs Belcher at 830 per foot, s 30.
3 shs Belcher at 865 per foot, s 3.
3 shs Belcher at 870 per foot.
3 shs Belcher at 850 per foot, s 30.
15 shs Belcher at 875 per foot.
4 shs Crown Point at 820 per foot.
8 shs Crown Point at 825 per foot.
4 shs Crown Point at 825 per foot, s 3.
4 shs Crown Point at 825 per foot, Monday.
4 shs Crown Point at 830 per foot.
10 shs Uncle Sam at 336 per foot.
2 shs Uncle Sam at 325 per foot.
10 shs Uncle Sam at 315 per foot.
4 shs Uncle Sam at 310 per foot.
5 shs Uncle Sam at 305 per foot, s 3.
3 shs Uncle Sam at 305 per foot.
3 shs Uncle Sam at 300 per foot.
4 shs Chollar at 345 per foot.
12 shs Chollar at 350 per foot.
8 shs Chollar at 352½ per foot.
16 shs Chollar at 355 per foot.
8 shs Chollar at 370 per foot
28 shs Chollar at 380 per foot.
40 shs Potosi at 340 per foot.
20 shs Potosi at 350 per foot.
166 shs Potosi at 360 per foot.
10 shs Potosi at 362½ per foot.
10 shs Potosi at 365 per foot.
6 shs Hale & Noreross at 560 per foot.
10 shs Burning Moscow at 32¾ per share.
20 shs Burning Moscow at 33 per share.
50 shs Burning Moscow at 34, ass't unpaid.
20 shs Burning Moscow at 34½ per share.
30 shs Burning Moscow at 35 per share.
10 shs Burning Moscow at 35 per share, b5.
15 shs Imperial at 235 per share.
5 shs Imperial at 235 per share, s 3.
5 shs Imperial at 238 per share.
5 shs Imperial at 238 per share, r w.
20 shs Imperial at 240 per share.
Amount of sales.....$273,565 00

Friday, July 14.

36 shs Ophir at 490 per foot.
340 shs Chollar at 400@400 per foot.
52 shs Chollar at 455@445 per foot, s 3.
182 shs Potosi at 400@455 per foot.
10 shs Potosi at 415 per foot, s 3.
16 shs Hale & Norcross at 600 per foot.
94 shs Uncle Sam at 280@255 per foot.
1 sh Savage at 1400 per foot.
4 shs Overman at 270@285 per foot.
40 shs Sides at 75 per foot, s 3.
4 shs Yellow Jacket at 1060 per foot.
50 shs Imperial at 238@237½ per share.
5 shs Imperial at 237½ per share, s 3.
15 shs Bullion at 180 per share.
20 shs Sierra Nevada at 12 per share.
60 shs Wide West at 9@9¼ per share.
25 shs N. American, Ex Sam, at 33@30.
180 shs Burning Moscow at 46@34 p share.
$ 5,000 Legal Tender Notes at 73¾ per cent.

AFTERNOON SESSION.

64 shs Chollar at 450@455 per foot.
8 shs Chollar at 465 per foot.
120 shs Chollar at 455 per foot.
78 shs Chollar at 445@450 per foot.
65 shs Uncle Sam at 322@330 per foot.
35 shs Uncle Sam at 352½@335 per foot.
10 shs Burning Moscow at 34 per share.
40 shs Lady Bryan at 7@7¼ per share.
95 shs N. American, Ex Sam, at 45@44 p sh.
20 shs N. American, Ex Sam, at 42 per sh.
40 shs Potosi at 450 per foot.
14 shs Potosi at 445 per foot.
74 shs Potosi at 440 per foot.
7 shs Overman at 295@290 per share.
23 shs Overman at 300 per share.
Amount of sales.....$295,640 00

THE GOLD LAKE OF 1850.

All old Californians will remember the Gold Lake excitement of 1850, and the numerous stories of its gold covered bottom, etc. Our own recollection of the excitement is a somewhat vivid one, although we were not one of the duped. The lake was actually found by many who went in search of it, and some gold was found there; but the reality fell so very far short of what the seekers had been led to expect, that nearly all left with the utmost disgust and indignation, and most of them without striking a pick into the gravel. The *Mountain Messenger*, of July 1st, however, says that the identical lake has been worked for several years past, with very fair success. The lake is about twelve miles from Downieville, and parties who are familiar with the locality assert that there is a large scope of mining country there that only needs developing to pay well. The mines in that vicinity are what are called ground sluice diggings, the bedrock being only a few feet from the surface and easily worked. The gold is all quartz gold, and from the appearance of the specimens has never traveled far. This section abounds in quartz ledges, in many of which the gold is visible, and others that prospect well. Some of the claims there have been worked for several years, and the diggings now average, according to the *Messenger*, about $27 per day to the hand. That is what we should call pretty good pay, but still the *Messenger* is very particular to caution people against going there, on the ground, however, that the diggings are too close by, and do not present obstacles sufficient to create risk enough to make it worth their while, and suggests a prospecting trip instead along the line of the Russian Telegraph. The *Territorial Enterprise* with reference to the above, says:

There may be *a* gold lake within twelve miles of Downieville, but it is not *the* gold lake of 1850. That was located by the current reports of the day somewhere near the head of the North Fork of Feather river. In attempting to reach it, not less than five or six hundred lives were lost in the spring of 1850. The story first found currency during the winter of 1849-'50, and early in the spring, before the snows had melted on the mountains, thousands of adventurers were on their way to the new El Dorado. As the story went at the time, the lake was twenty or thirty miles in circumference, and the sands along its shores were heavy with gold. A lake was found somewhere in Plumas county, in 1851, on the shores of which good prospects in fine gold was obtained; but the Gold Lake excitement originated in a hoax. Tom Stoddard, a romantic and rather weak minded miner, overheard a conversation concerning this imaginary gold field, which conversation was doubtless "cooked up" for his especial benefit, and he at once announced himself as the discoverer of the wonderful lake, and undertook to pilot a party to it. He led the adventurers over hundreds of miles of mountains, and finally left them in the wilderness, and thus escaped hanging. Tom is now in Nevada. We meet him occasionally. He talks no more of Gold Lake, but refers mysteriously to fresh discoveries scarcely less wonderful.

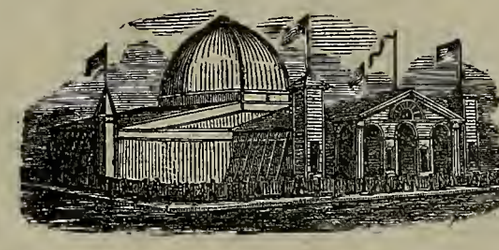
NEW COPPER SMELTING WORKS.—The Stockton *Independent* says: We see with satisfaction that the impetus lately given to this new species of industry by our townsman, C. T. Meader, is already bringing its fruit. A few days ago we described the establishment of the Taunton Smelting Works at Campo Seco; today we are informed that Ralph Emerson, Secretary of the Antioch Copper Smelting Company, is about to establish works for smelting the ores of the "La Victoire" mine, in Hunter's Valley. Work is to proceed immediately.

JAMES GORDON BENNETT, of the New York *Herald*, is over seventy years old. He leaves the management of his paper almost entirely to Mr. Hudson, who has been its editor for more than twenty years, and who may be found day and night at his desk, living and thriving in an atmosphere of intense work.

MYSTERY magnifies danger, as the fog the sun. The hand that unnerved Belshazzar derived its most horrifying influence from the want of a body; and death itself is not formidable in what we know of it, but in what we do not.

THE California soldiers who left recently for Arizona, either by accident or gross negligence, fired the Salinas plains. The fire raged five or six days, consuming several leagues of good pasture land.

THE FIFTH INDUSTRIAL FAIR



OF THE MECHANICS' INSTITUTE OF SAN FRANCISCO,

To be Held in the Mechanics' Institute Pavilion in August, 1865.

The Mechanics' Institute having determined to hold their Fifth Industrial Fair during the coming season, the Executive Committee would respectfully invite all persons desirous of exhibiting Machines, Manufactures, Agricultural Implements, Horticultural Products, Minerals, Ores, and Works of Art, to make application immediately, in order that the proper space may be allotted them.

The Exhibition will be open to the public on Thursday, the 10th day of August, at 10 o'clock A. M.

The general management of the Fair is entrusted to an Executive Committee, consisting of the officers of the Institute.

No contracts or agreements will be recognized unless made by the authorized agents of this Committee.

A competent person will be in attendance at the Pavilion to receive and register all goods designed for exhibition, and will receipt therefor.

Contributions of Machinery and other articles that require long time to prepare for exhibition, will be received from the 15th of July to the 2d of August.

Articles for exhibition that require large space may be entered on or before the 20th day of July, and space will be allotted to the exhibitor on or before the 2d of August.

The Picture Galleries will be ready for the reception of Pictures, Embroideries, Wax and Fancy Work of all kinds, on the 1st of August, when space will be allotted.

The Committee will be prepared for the reception of Fruits, Flowers, Agricultural and Horticultural Productions, and design to have the tables so arranged that the best display possible can be made in this department, and every effort will be made and care taken to preserve their freshness, so that exhibitors may receive full credit for their productions. Those wishing space on these tables should engage it at an early day. There will be space reserved for additions in this department during the Fair.

The several transportation companies, as on former occasions, have, with commendable liberality, consented to transport articles intended exclusively for exhibition free of charge, and Messrs. Wells, Fargo & Co., in like manner, will take charge of them.

The Committee have the fullest confidence that the coming Fair will not only be the most complete and varied in its character, but will also be more attractive than any previous exhibition of this kind on this coast.

No pains or expense will be spared to give the contributors satisfactory opportunities in the spacious pavilion of the Institute for the display of their contributions, and to furnish whatever may be necessary to make the Fair an institution where those who frequent it may be both pleased and instructed.

All articles forwarded should be labeled "For the Industrial Exhibition," San Francisco.

All communications to be addressed to C. S. HIGGINS, Corresponding Secretary.

EXECUTIVE COMMITTEE.

CHARLES M. PLUM, President.

JOSIAH MOULTON,	D. A. MACDONALD,
JAMES R. DEANE,	C. S. HIGGINS,
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W. W. HANSCOM,	H. K. CUMMINGS,
EDWARD NUNAN,	J. W. REAY.

P. B. DEXTER, Secretary.

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	7 00 @	7 00
Do Superfine	6 00 @	6 00
Corn Meal, ₱ 100 lb	3 00 @	4 00
Wheat, ₱ 100 lb	1 70 @	2 00
Oats, choice, ₱ 100 lb	1 75 @	2 00
Barley, ₱ 100 lb	1 25 @	2 50
Beans, ₱ lb	3 @	4 00
Potatoes	1 50 @	2 00
Hay, ₱ ton	12 00 @	15 00
Live Oak Wood, ₱ cord	8 00 @	10 00
Beef, on foot, ₱ lb	8 @	10
Beef, extra, dressed, ₱ lb	16@	22½
Sheep, on foot	1 00@	2 00
Hogs, on foot, ₱ lb	8 @	12
Hogs, dressed, ₱ lb	12 @	15
Groceries, Etc.		
Sugar, crushed, ₱ lb	15 @	16
Do China	12½@	13
Coffee, Costa Rica, ₱ lb	22 @	23
Do Rio	22 @	
Tea, Japan, ₱ lb	85 @	95
Do Green	70 @	90
Hawaiian Rice, ₱ lb	@	10
China do	10 @	
Coal Oil, ₱ gal	1 05 @	1 10
Candles, ₱ lb	20 @	24
Ranch Butter, ₱ lb	40 @	45
Isthmus do	35 @	38
Cheese, California, ₱ lb	20 @	25
Eggs, ₱ doz	45 @	50
Lard, ₱ lb	23 @	25
Ham and Bacon, ₱ lb	23 @	25
Shoulders	15 @	18

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	45@	50
do pickled ₱ lb	40@	50
do Oregon	30@	35
do New York, ₱ lb	35@	40
Cheese, ₱ lb	20@	25
Honey, ₱ lb	40@	50
Eggs, ₱ doz	50@	55
Lard, ₱ lb	25@	
Hams and Bacon, ₱ lb	20@	25
Cranberries, ₱ gal	75@	
Potatoes, sweet, ₱ lb	6@	8
do Irish, ₱ lb	4@	5
Tomatoes, ₱ lb	10@	10
Onions, ₱ lb	6@	6
Apples, No. 1, ₱ lb	8@	10
Pears, table ₱ lb	6@	10
Plums, dried, ₱ lb	10@	15
Peaches, dried, ₱ lb	10@	15
Grapes, Foreign, ₱ lb	25@	50
Oranges, ₱ 100	2 50@	3 00
Lemons, ₱ 100	5 00@	6 00
Chickens, apiece	1 00@	1 25
Turkeys, ₱ lb	37½@	
Wild Ducks, ₱ doz	4 00@	6 00
Oysters, ₱ 100	1 00@	1 25
Fish, Fresh, ₱ lb	5@	20

NOTICE.

The co-partnership heretofore existing between John Youngberg, Stephen H. Covert and William B. Gleason, is hereby dissolved by reason of the said Gleason and Covert having left for the East. This is to notify all persons that I shall pay no debts contracted by the said parties from and after this date. JOHN YOUNGBERG.

San Francisco, May 15th, 1865. 20v10-1m

New Volume

—OF THE—

Mining and Scientific Press

Issued every Saturday. Each number contains 16 pages and 64 columns (size of Harper's Weekly).

PUBLISHED BY

DEWEY & CO.,

Patent Agents, Publishers and Job Printers,

505 Clay Street, San Francisco.

THE ELEVENTH VOLUME

Of the MINING AND SCIENTIFIC PRESS commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this journal may be anticipated by its numerous and rapidly increasing readers.

We shall continue to devote a large space in our columns to the various and best methods of treating ores and saving gold and other precious metals in every form, furnishing valuable hints to millmen, prospectors, oil-workers and miners generally, not to be found in any other publication.

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1852. 1865.

Thirteenth Year of Publication.

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Mining and Scientific Press.

W. B. EWER, ... SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

DEWEY & CO., Publishers.

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It is Impossible for editors to know all the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides and the evidence of any error which may appear will be received in friendship and treated with respect.

American and Foreign Patents.—Letters Patent for inventors can be secured in the United States and foreign countries through the Mining and Scientific Press Patent Agency. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the Mining and Scientific Press, free of charge. It in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the credit system.

San Francisco:
Saturday Morning, July 15, 1865.

Removal.

The Office of the Mining and Scientific Press has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive Job Printing Office.

San Francisco, April 10th, 1865.

Canvassing Agents.

We would call attention to the following named agents of the Mining and Scientific Press as gentleman worthy of the countenance of any community which they may visit, and assistance rendered them in their efforts, by friends and old patrons, or our brethren of the Press, will be acknowledged as a personal favor to us:—

Mr. Robert Lattimore—Amador and Alpine counties and the State of Nevada.

Thos. Poyzer, of Grass Valley, for Nevada, Yuba and Sierra counties.

The Largest Refracting Telescope in existence is about to be put up at the Chicago University, Michigan. It has been manufactured by Alvin Clark, of Cambridge. Compared with the one at Harvard, the next largest, the Chicago instrument is as thirty-four to twenty-one. The objective glass is eighteen and three-quarters inches in diameter, with a focal length of twenty-three feet. Capt. Gillis, of the National Observatory, at Washington, writes of it, that "the eyes of the whole scientific world are turned to Chicago, awaiting the results. When the instrument is properly mounted and manned, no one can predict its future." When first completed, the object-glass was inserted in a rude board tube and drawn down by means of tackle, for trial. In thus sweeping the heavens, it caused at once a discovery for which it received the most favorable notice of foreign scientific associations, and also took the largest astronomical reward at Paris—the Lelaud prize of five hundred fraacs. It is a matter of just pride and congratulation that this instrumeat was manufactured by one of our countrymen.

Dangerous Counterfeit.—A counterfeit $100 greenback has been detected in Boston. It passed as genuine through several of the banks, but was finally inspected, and fully proven to be a counterfeit only on being taken to the office of the U. S. Sub-Treasurer. The unexpected appearance and so perfect imitation of this counterfeit will be likely to seriously disturb the circulation of that entire denomination of legal tenders.

Treasure.—The treasure receipts at this city for the first half of the present year were $29,225,007, being $2,039,882 more than during the same period, last year. The exports during the same time have been $21,591,693, being $7,249,147 less than during the same period of 1864. From the above figures it will be observed that the increase of treasure during the past six months has been $9,281,029.

THE NEW EXCELSIOR DISTRICT.

This district still appears to attract a large share of attention from both sides of the summit. According to the *Territorial Enterprise*, the general formation of the region is granite. In this formation a vast number of leads of all sizes are found. There are in the vicinity numerous lakes and mountain streams and an abundance of timber. In the soil about many of the leads from 25 cents to $4 (?) to the pan may be obtained. All who have claims there appear to feel very sanguine with regard to their value. A man who has been working about the reservoir and has spent most of his time in that section, says that during the past year he has noticed no less than eleven heavy shocks of earthquakes there. Everything shows that there have been heavy quakings of the earth and many volcanic eruptions in the vicinity. South of the Eclipse mine is a small lake, in the center of which is to be seen standing a large pine tree, half the length of which is buried under the waters of the lake. Our readers will recollect the description of a bottomless lake, in that vicinity, which we gave last week. A gentleman who lately visited the locality, says that the springs near Say's Station have again been on the rampage. He says the largest springs threw up a huge column of water, in his sight, to the hight of twenty feet. With the water, flames also came up. A blaze of fire is said to have been spouted from this spring, last year, to a hight of sixty feet.

The Lake Tahoe Water Project, which was at first supposed to be a mere "flyer," is now said to be an earnest proposition. The parties, it will be recollected, propose to turn the surplus water from Lake Tahoe, to the western declivity of the Sierra, which must be done by a tunnel three or four miles in length, and convey it to Sacramento, Stockton, and this city. There will also be enough water for extensive irrigation of farm lands, as well as for mining purposes, along the route. Those engaged in the scheme have faith that the enterprise will prove a financial success. They will proceed immediately to make the necessary surveys, estimates, etc. It is decidedly the most stupendous water-works enterprise ever undertaken in the history of the world. There are no engineering difficultics to be overcome, but such as can be met by a reasonable outlay of capital; although if carried out it will prove the most costly and stupendous water-works enterprise ever yet undertaken in any age of the world—for that reason, perhaps, it will be just the enterprise to be undertaken and carried through by Californians. Fifty years hence it may pay as an investment.

The Heroic Age of the Republic.—Rev. Dr. Bushnell, of Hartford, Conn., in speaking of the majesty and strength of our Government, as manifested in the great struggle through which it has just passed, uttered the following impressive thought:—

We did not know how strong it was before. Nobody had any conception of the immense strain it could bear. How bright is the future now of such a Government and nation! Hallowed by so many battle-fields, and these by the tribute of so many histories, and sung by so many songs of the great poets of the future, how dear, and sacred and glorious it will be! And God be thanked, it was our privilege to live in this great day of crisis, this always to be called heroic age of the republic.

Change.—The Hon. C. B. Porter, of Contra Costa, and agent of the last Industrial Fair at this city, has purchased the interest of M. W. Theobald, in the Contra Costa *Gazette*. We welcome friend Porter to the editorial tripod.

Horrible Death.—Joseph Grecubauer, of Iowa Hill, committed suicide a few days ago by drinking a glass of sulphuric acid.

The Sacramento Bee has entered upon its 18th volume. The *Bee* is one of our most valuable exchanges.

The largest deposits of anthracite coal in the world are in Pennsylvania—the mines of which supply the market with millions of tons annually, and appear to be inexhaustible.

SULPHURET WORKINGS IN AMADOR.

According to the Amador *Ledger*, there are two establishments for working sulphurets in Amador county; one of them, however, from some cause unknown to the *Ledger*, is not working at present. The other is known as the Mannon Mill, and is located on Sutter creek, just above the town of that name. The mill was erected in the winter of 1863, since which time it has been in constant and successful operation. It has a capacity for reducing the sulphurets obtained from about fifty tons of rock daily. Like other "institutions" of this kind, the process of working is only known to the proprietors, the public being permitted to see only the outside works. The ore is concentrated in sluices and boxes, at the quartz mill, where the rock is crushed. It is then salted down, and left lying in bulk in the open air until it becomes thoroughly oxydized. The reducing machinery consists of two large Wheeler pans, used for grinding, and twelve Knox pans for both grinding and amalgamating. The owners of this mill, S. S. Mannon and A. H. Rose, inform the *Ledger* that, unless they should greatly enlarge their mill, they have now on hand a sufficient quantity of material to keep the same running for two years. It is a matter of no inconsiderable interest to notice the increased degree of attention that is beginning to be paid to the working of sulphurets, and indeed to a more thorough working of our gold quartz generally. There is no question but that nearly as much gold has been suffered to run to waste, from our quartz mills, as has been saved; and for all these millions the State is just so much the looser. The mill-men who have taken the precaution to save their tailings will yet be enabled to recover a large portion of this waste; but much of it has gone irretrievably, with the rush of water that is constantly proceeding from their batteries, and the tons of quicksilver that has been allowed to escape from the mills. It is time that our mine owners learned that amalgamating is a science that cannot be learned in a week or a month, and should no more be trusted to unskillful hands, than to those whose honesty there may be good reason to doubt.

The Sanitary Commission has entered upon a new and noble work, since the close of the war. It is well known that the moment the Government discharges a soldier, that moment he is left to shift for himself, the best he can; and as a general rule he is beset with a class of merciless land-sharks, who, under the pretext of assisting him in securing his claims against the Government, rob him not only of what little money he may have, but of his claims against the Government also. Of course there are honorable exceptions among those acting as Pension and Claim agents; but to obviate any danger of such wrongs accruing to the enrolled soldier or his needy widow, the Sanitary Commission has now volunteered its assistance to prosecute and secure such claims, free of cost, to the soldiers' widow or orphans. The work is a noble one, and in addition to the further labor of looking after the soldiers and soldiers' families who are in need of assistance, is a fitting climax for a work of philanthrophy which, for magnitude and comprehensiveness of detail, has never been equalled in the history of the world.

Death from Eating Rhubarb Tops.—The Nevada *Transcript* says that a child of James Condon, who resides near Washington, died on the 4th inst., from the effects of eating rhubarb tops which were cooked with bacon, very much as cabbage is prepared. The child and others of the family who eat of it were taken with vomiting, and the little one died in a short time. We have heard of several instances where persons have been made sick from eating rhubarb tops improperly cooked.

Butler's Canal.—The canal at Dutch Gap, cut by order of General Butler, allows passage for vessels drawing seven feet of water, and is now regularly used by such steamboats and other craft as do not draw over that depth.

A New Beecherism.—At a recent temperance meeting held in Elmira, N. Y., Rev. T. K. Beecher, a brother of Henry Ward, took position in favor of the use of ale and wines, as a prophylactic for intemperance. He said that he had so taught from his pulpit, and he should do it again, that he had a barrel of good ale in his cellar, and that if we formed a temperance organization on the basis of total abstinence, we should act contrary to science and so contrary to God, and should consequently fail.—*Eastern Exchange.*

The above is a singular doctrine to be put forth by a minister of the gospel, even from one of so eccentric a class as "the Beechers." The idea that ale, as a beverage, promotes temperance, or that abstinence therefrom is contrary to science, argues very little of either judgment or philosophy in the reverend gentleman. However useful ale may be as a tonic, the fact is nevertheless, incontrovertable that, as an habitual beverage, the use of malt liquors is prolific of disease; producing corpulency, obesity, vertigo, apoplexy, and various other diseases of the heart and head. Its use, except as a medicine, is therefore clearly contrary to science. If any alcoholic stimulus must be used, the pure juice of the grape is much preferable; although *pure cold water*, nature's own beverage, will be found far more promotive of health, long life and clearness and vigor of intellect than any fluid ever devised by the most cunning researches into the *arcana* of science.

The American Artizan.—This excellent journal, published weekly in New York city, has just commenced a new volume and "new series," as well, as it has enlarged from an eight to a sixteen-page paper. We find the *Artizan* an almost indispensable exchange. Its columns are replete with valuable scientific and mechanical information, well and carefully prepared, and in just the form and manner best calculated to interest and instruct the masses. It gives a weekly list of patent claims, and should have a large circulation in every State in the Union. It is published by Messrs. Brown, Combs & Co., New York, at $2.50 per year.

Deep Mines.—The deepest mine in America is the coal mine, on the Sugar Loaf Slope of the Diamond Coal Company, in Pennsylvania, which is 970 feet perpendicular depth, with 3,000 feet slope. It has been worked about thirty years. This mine is only *ten* feet deeper than the Eureka gold mine, at Sutter creek, Amador county, in this State, although the incline is much shorter in consequence of the great dip of the vein.

The Union Copper Mine, at Copperopolis, during the month of June, shipped from the mine to San Francisco, *via.* Stockton, the large amount of 3,600 tons of ore, the freight money on which was $29,000. The amount of pig copper and copper matte shipped during the same time, from Meader's Smeltiag Works, was fifty-eight and a half tons.

The Nye County News, which had to succumb some time since to the "hard times," has been revived with good prospect of success and usefulness. It is published by Joseph E. Eckly, at Ione, Nye county, Nevada, and promises to be an important aid in the development of that section of the Washoe silver region.

Gone North.—Messrs. Colfax, Bross & Bowles left this city on their way to Oregon and British Columbia, on Monday last, *via.* Marysville and Red Bluffs. They will return by sea, arriving here about the 1st of August, and leave the middle of the month for the East *via.* Panama.

A Pin-Eating Hen.—The Northampton, Mass., *Gazette* tells of a hen recently killed in Amherst, in whose gizzard was found not less than *thirty-six* pins, which hiddy had swallowed, with apparently no effect whatever. William Manly, of Florence, who took them out, has the pins now in his possession.

The Mariposa Gazette has entered upon its tenth volume. May it witness many more returns of its natal anniversary.

PETROLEUM MATTERS.

The work of developing the California oil interest is going rapidly forward, and with the most encouraging success. New organizations are constantly heing effected, and generally with the view of immediate active operations. During the past week we have received higbly favorable reports from Humboldt county. Although the report which reached the city, on Saturday last, that the Union Mattole Company had struck a flowing well has proved incorrect; there is the best of reason for believing that it is only premature, and that the company actually has such a well within immediate reach. The actnal condition of affairs at this well may he learned from the following article from the Humboldt *Times*, of last week:

"It will be remembered that shortly after the "strike" made hy this Company, at a depth of only about eighty-five feet, the well commenced caving badly, and to such an extent as to seriously interfere with the work of extracting oil. The Company then determined to cease further operations in this well, only doing sufficient to preserve it from greater damage from the same cause, and accordingly commenced thereat. In this they descended, as we are informed, to nearly the same depth reached in the first, when the presence of oil was discovered, and further progress was interruped by the well-hole, for some cause not explained, becoming out of plnmp. Operations were thereupon again resumed at the old well, which they bored to the depth of about one hundred and fifteen feet, when another vein of oil was tapped. For a number of feet before reaching this depth, the quantity of oil coming into the well seemed constantly to increase, and at the point indicated it was evidently more than double that ever obtained from it before. Moreover, there was every reason to believe, from the indications that were presenting themselves, that the depth could be increased but a short distance before a flow of oil would be obtained. The indications which led to this opinion are stated to be: the great volume of gas which escaped from the well, the hight to which the oil had risen, and the disturbed sound preceptible in it, all of which increased in proportion as the drill deeended deeper. On Tuesday morning the oil stood in the well-hole to the depth of sixty feet, and was still slowly rising. We learn that the few kegs and vessels which were at hand were filled with oil at once; but not being prepared with the means for taking care of more, the Company have been obliged to suspend work untill tanks or some other suitable vessels can be procured for the purpose. * * * We have just learned from the President of the Company, who arrived in town yesterday, that in taking out one hundred gallons of oil from their well, the depth of the oil was decreased only about six feet. When he commenced taking this out there were sixty-one feet of oil in the well.

From this statement it would appear quite evident that the company has abundant reason for believing that they have a large supply of oil within their reach, and that it would be folly to prosecute their work any farther until they had made ample preparations to secure any reasonable flow of oil as soon as it might make its appearance. This, we understand, the company are doing with all reasonable dispatch. As yet, no water has made its appearance in either of the wells—the flow being oil exclusively.

The Paragon company, whose claims adjoin the Union, have their tools already on the ground. The superintendent goes up on the next boat, and will commence active operations as soon as he arrives. The location of this claim is equally as favorable as the Union. the proprietors entertain no doubt whatever of being able to strike oil at the same depth as their neighbor.

One great drawback is the difficulty which at present exists through want of suitable roads for getting the oil to market. Arrangements, however, are already in progress for the early construction of such indispensable conveniences. Two or three parties are also about to put up saw mills, to meet the demand for lumber, which the new condition of things in that county will require in abundance. There is an abundance of timber, convenient for lumber and for barrels, which will be made upon the ground as soon as the demand is proved to be sufficient in extent and permanence to warrant such an enterprise.

From Colusa we also receive highly favorable reports. Mr. J. Sevenoaks came down on Thursday from a tour of observation in that county. He informs us that he has made a purchase of the Emerson Springs, in Bear Valley, and will send up machinery for boring immediately, with the proper supply of tubing. Mr. S., after digging out the spring a little, was enabled to gather up about five gallons of the oil, from its natural flow, which will arrive here on Monday or Tuesday. The oil burns quite freely in its crude state, in the ordinary kerosene lamp. Mr. S. feels very sanguine of being able to obtain a large supply of oil at a very moderate depth.

The company owning the Botts' Spring are now down about thirty feet, with a large quantity of oil, mixed with water, in their well.

Capt. Rowe, on Sulpbur Spring Creek, is down 110 feet; has oil in the well, which he thinks can be developed into a good pumping well. He is now putting up a pump, which will be ready for work in a few days, to test the yield of oil. Quite a number of new parties are about starting in to bore in various parts of the county.

We have seen a letter from the Adams' well, Mt. Diablo stating that the engine is all ready to commence work. The pump had been accidentally dropped into the well, but would be got out without difficulty, and the flow of oil thoroughly tested.

We hear nothing new from the wells about Lexington, in Santa Clara county. The Arthur Ranch well, owned by the Uvas Creek Co., and in charge of Mr. Sevenoaks, is now down fifty-five feet, with very encouraging indications.

ST. IGNATIUS COLLEGE.

This institution, located on Market street, in this city, has recently received large additions to its apparatus for the illustrations of the arts and sciences there taught. At the invitation of Rev. Anthony Cichi, the resident Professor of Natural Philosophy, Chemistry and Geometry, we recently paid the institution a brief visit for the purpose of examining its philosophical apparatus, mineral cabinet, etc. We found the chemical laboratory well furnished with all that is necessary for the most complicated manipulations and analyses. We noticed, among other things, a "spectrum," the instrument recently devised for determining the presence and character of metals by their fusion or volitization—a process now denominated "the spectrum analysis"—a very simple and convenient form for making qualitative analyses. We also noticed a new and complete optical apparatus; also a well assorted mineralogical cabinet, especially designed for use as ocular demonstrations in the study of mineralogy and geology. The design of this Institution is to give a thorough, classical, mathematical and philosophical education; and to this end the instrumeats and apparatus provided are most ample for a thorough illustration of the arts and sciences, and a complete manipulation of all the various processes connected with the study of metallurgy and chemistry. There is also connected with the college, in a separate building, a complete apparatus where photography, in all its branches, can be taught, not only in theory, but in practice, as well, which makes all things perfect. We are pleased to learn that the Institution is in a highly prosperous condition. It was incorporated in April, 1859, and its fifth annual collegiate year commences on the last Monday in August next.

California Patents Recently Granted.—An Improvement in Shafting, by Franklin Peregoy, of Indiaa Valley, Plumas county; A Wire Cutting Machine, by Lewis W. Jobauaing, of San Fraacisco; A new mode of Raising Snaken Ships, hy Austin F. Page, of Weaverville, Trinity county. All of the above patents were obtained through the Mining and Scientific Press Patent Agency. A patent has also been granted to Harvey L. Lowman, of Virginia City, Nevada, for a new Miniug Pick.

Bullion.—The amount of bullion shipped from the Gold Hill office of Wells, Fargo & Co., for the quarter ending June 30, amounted to $594,630.37. For the month ending June 30, the shipments amounted to $246,725.62.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and all other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Alameda Coal, Alameda co., Cal.	$2.....	June 7	July 15
Adams' Petroleum, Contra Costa,	$25.....	June 25	July 20
Alpha, Gold Hill		June 1	Caution
Adriatic, Storey co.,	$1.50	July 24	Aug 9
Alhambra, Devil's Gate District, Nev.			Sale July 21
Bolinas, Petroleum, Marin co.,	25c	Aug 5	Aug 19
Bella Vista, Lower Cal,	25c	July 29	Aug 12*
Bacon M. & M. Co.,	$10	Payable May 10	
Burning Moscow, Storey co.,	$20	Aug 10	Aug 22
Boston, El Dorado co.,	50c	July 11	July 25
Bamboo, Esmeralda co., Nev.	50c	July 3	July 17
Belcher, Baldwin & Abernethy		Dividend of $17, June 3	
Bullion	$40	Levied June 6	
Barreteros, Sinaloa, Mex.,	$5	July 27	Aug 7
Baltimore American, Storey co.		Annual Meeting July 22	
Barreteros, Sinaloa		Annual Meeting Aug 7	
Big Blue Lead		Annual Meeting July 18	
Burning Moscow		Annual Meetnig July 25	
Chloride Ledge, Calaveras co.,	$1	Aug 12	Aug 26*
Colossal, Lander co		Sale July 20*	
Cherokee, Echo District,	75c	July 29	Aug 12*
Caledonia Tunnel, Gold Hill, Nev.,	$3	July 15	July 29*
Confidence,		Dividend, $100 per foot	May 1
Cholla, Storey co., Nev.,	$12½	July 31	Aug 14
Cosala		June 7	Caution
Cole, Storey co.,	$1	July 15	July 28
Coahortita, Sinaloa, Mex.,	$2.50	July 15	July 27
Cortez, Lander co		Annual Meeting Aug 3	
Diana, Lander co.,	$2	July 8	July 24
Diana, Lander co		June 7	Caution
Diamond, Del Norte co.,	60c	June 28	July 17
Dardanelles, Del Norte co.,	20c	Aug 5	Aug 19
Dancy, Lyon co., Nev.,	$1.25	Aug 11	Aug 28
Emilia, Mex.,	50c	July 29	Aug 12*
El Dorado, Alpine co.,	$1	July 22	Aug 7*
El Alamo de San Antonio, Low Cal.	$1	July 1	July 15*
El Tesoro, La Paz,	$1.50	June 30	July 12
Eureka, G. M. Co., Dividend	$2.75		June 29
Franco-Americana, San Antonio,	50c	July 29	Aug 11
Good Hope, Alpine co.,	50c	Aug 12	Aug 26*
Geo. Washington, Alpine co.,	$1	Aug 12	Aug 26*
Gould & Curry		Dividend, $50	July 6
Golden Age & Empire, Esmeralda,	$2.50	June 28	July 29
Gold Hill Tunneling, Storey co.,	$1	June 30	July 22
Guasaparis, Chihuahua, Mex.	$7.50	June 24	July 18
Gold Hill Tunnelling		Annual Meeting July 15	
Gem of Sierra, Humboldt co., Nev.,	$5	July 12	July 31
Green, Storey co.,	$1	July 22	Aug 5
Gem of Sierra		Annual Meeting July 22	
Green Lode, San Bernardino co.,	$1	July 21	Aug 4
Great Republic, Contra Costa co.,	12½c	July 29	Aug 16
Guadaloupe, Chihuahua, Mex.,	$10	Levied June 26	
Great Consolidated, Boise River, Idaho,	50c	Aug 11	Aug 22
Hallock, Alpine co.,	50c	Aug 12	Aug 26*
Hanscom, Del Norte co.,	15c	July 22	Aug 5*
Hale & Norcross, Storey co.,	$25	Aug 7	Aug 21
Hibernia, Arizona,	30c	July 4	July 17
Humboldt, Humboldt co., Nev.,	$1	June 28	July 17
Imperial, Dividend,	$10	Payable July 6	
Imperatrice Eugenie, Calaveras co.,	30c	July 1	July 19
Jewett, Storey co.,	$1	July 1	July 15*
Kelsey, El Dorado co., Cal.	30c	July 1	July 15*
Kentucky, Calaveras co.,	50c	July 12	July 31
Lord Byron, Devil's Gate		Annual Meeting July 19*	
Lady Franklin, Alpine co.,	50c	July 8	July 28*
Lady Bell, Del Norte co.,	10c	July 10	July 24
La Victoire, Mariposa co		Special Meeting July 20	
La Libertad, Lower Cal.,	50c	Aug 5	Aug 14*
La Victoire, Mariposa co.,	$3	Aug 12	Aug 28*
Marathon, Mono co.,	50c	July 15	July 29*
Mina Rica de las Flores, Calaveras co.,	$1	July 4	July 24
Mt St Helena, Lake co		Annual Meeting July 25	
Minerva Cons., Gold Hill,	$25	July 31	Aug 15
Mina Prieta, Sonora, Mex		Adj. Meeting July 28	
Maggie, Lander co., Nev.,	$2	Aug 8	Aug 19
Nuestra Sen. de Guadaloupe, Durango,	50c	July 29	Aug 16
Nuestra Sen de Guadaloupe Jalisco,	$5	July 6	July 18
Noble, Calaveras co.,	$6	July 1	July 19
Nevada, Nevada co.,	50c	July 20	Aug 1
Napoleon, Calaveras co.,	$5	Aug 5	Aug 18
Napa, Alpine co.,	60c	Aug 5	Aug 14*
New Hope, Lander co., Nev.	$1	Aug 14	Sept 2
North Star, Lander co., Nev.	$11	Aug 10	Aug 25
Ontario, Lander co.,	$1	July 18	Aug 4
Overman, Storey co.,	$50	Aug 2	Aug 18
Pennsylvania, Lander co.,	$2	July 1	July 17*
Potosi, Storey co., Nev.,	$25	July 31	Aug 14
Point Arena, Mendocino co.,	50c	June 17	July 21
Patricina & Dolores, Chihuahua, Mex.,	50c	July 27	Aug 7
Petaluma M. & M. Co., Dividend of 5 ₱ cent			July 5
Paragon, Petroleum, Humboldt co.,	30c	Aug 5	Aug 19*
Point Arena, Petroleum		Annual Meeting Aug 9	
Rose, Mariposa co.,	50c	July 22	Aug 5*
Rose, Mariposa co.,	50c	July 8	July 22*
Refugio, Chihuahua, Mex.,	$2.50	July 20	Aug 3
Rose Linda, Alpine co.,	$3	Aug 5	Aug 16
Smoky Valley, Smoky Valley dist.	$1.50	Aug 12	Aug 30*
Southern Light, R. R.	50c	Aug 19	Sept 6*
Simpson M & M Co., Alpine co.,	60c	Aug 12	Aug 26*
Sierra Nevada, Alpine co.,	75c	Aug 12	Aug 26*
San Rafael, Lower Cal.,	50c	July 29	Aug 15*
Savage,		Dividend, of $75	May 5
Sheba, Humboldt, Nev.,	$5	June 30	July 15
Santiago		Dividend	May 17
San Lorenzo, Santa Cruz co.,	50c	July 1	July 17
Spring Hill, Nevada co.,	$10	July 17	July 28
Savage, Storey co		Annual Meeting July 21	
Sacramento & Meredith, Storey co.,	50c	Aug 4	Aug 19
Sierra, Douglas co., Nev.,	$2	July 24	Aug 9
Shoshone, Lander co., Nev.,	$1	Aug 7	Aug 21
St. Paul, Lander co.,	50c	Aug 5	Aug 22*
Star of Hope, Mono co		Special Meeting July 21	
Santa Cruz, San Antonio, L. C.	$2	Aug 8	Aug 21
Table Mountain, Calaveras co.,	50c	July 29	Aug 14*
Triunfo, San Antonio,	$3	Aug 7	Aug 19
Tellurium, Amador co.,	$1	Aug 5	Aug 16
Tesoro & James River, Lander co., Nev.	50	July 14	Aug 1
Tecoripa, Sonora, Mex.,	$3.50	Aug 7	Aug 19
United States, Lander co		Meetlng Aug 10	
Uncle Sam, Storey co.,	$50	Aug 2	Aug 18
Vulcan, Lander co		Annual Meeting Aug 5*	
Vulcan, Lander co.,	50c	July 22	Aug 5*
Ventana		June 3	Caution
Valparaiso, Tuolumne co.,	$1	July 6	July 20
Whitlach Yankee Blade, Lander co.,	$2	July 1	July 15*
Wide West, Esmeralda co.,	$5	June 24	July 17
Whitlach, Lander co.,	$7.50	Aug 7	Aug 22
Yosemite, Ore Fino dist.,	$1.25	Aug 5	Aug 19*
Yankee Blade Tunnel, Lander co.,	10c	July 1	July 20*
Yellow Jacket		Dividend of $100	May
Yankee Blade, Lander co., Nev.	$1	Aug 12	Aug 29

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	*Date of Levy.*	*Am't per foot*
Bajazette & Golden Era	June 15	3 00
Burning Moscow	July 11	20 00
Central Hawkeye	July 10	3 00
Caledonia Tunnel	June 13	3 00
Chollar	July 1	25 00
Globe	May 16	1 00
Kentucky	June 17	1 00
Kulckerbocker	July 7	1 00
Keystone	July 11	1 25
Lincoln	July 1	1 00
Minerva	July 1	100 00
Overman	June 10	50 00
Peck	June 7	1 00
Potosi	July 1	25 00
Sand Springs Salt Co	June 20	5 00
Schiller	June 13	50
Siegel	July 8	50
Sacramento & Meredith	July 4	50
Uncle Sam	July 3	50 00
Yolo	July 7	1 00

Delinquent Sales.

Name of Company.	*Date of Sale.*	*Place of Sale.*
Alhambra	July 21	San Francisco
Bullion	Aug 7	Virginia
Crown Point Ravine	July 15	San Francisco
Crystal Peak W D L M & M Co	July 15	Virginia
Chrystal Peak Coal Co	July 15	Virginia
Central Hawkeye	July 17	Gold Hill
Gold Hill Tunneling Co	July 13	San Francisco
Dunn	July 3	Virginia
German	July 6	Gold Hill
Globe	July 15	Virginia
Golden Swan	Aug 7	Gold Hill
Imperial	July 6	Gold Hill
Jewett	July 15	San Francisco
Kentucky	July 17	Virginia
Keystone	Aug 3	Virginia
Mount Blanc	July 31	Virginia
Milton	July 15	Virginia
North America	July 17	Virginia
Napoleon Consolidated	Aug 7	Virginia
Opal	Aug 2	Virginia
Peck	Aug 8	Gold Hill
Rock Island	July 22	Virginia
St. John	July 17	Virginia
Tyler	July 17	Virginia
Yolo	Aug 1	Virginia

Mining Summary.

CALIFORNIA.

The semi-annual returns of trans-shipments from this port afford the most gratifying evidence of the increasing prosperity of our mining interests. The figures for the past three years show a growing ratio of increase of the metallic product, with a corresponding decrease in the exports, giving evidence of an increasing tendency of capital to seek for investment on this coast, and proving that, although we may not he advancing in population as rapidly as we could desire, still we are making steady and healthy progress in material wealth.

Nevada County.—We still continue to receive encouraging accounts from this important locality. According to the *National*, the Coe company have struck a rich ledge on their extension of the Eureka ledge. They have the ledge at a depth of 130 feet. The Kate Hayes company have also struck very rich rock, about thirty tons of which has been raised, which it is thought will pay from $75 to $100 per ton. They have probably by this time put on a large additional force of hands, with which they will prosecute the work with additional vigor.

The town of Washington, according to the *Transcript*, is now one of the liveliest camps in the county, rendered so by the excellent success which has recently attended mining operations in the neighboring good diggings on the Yuha. Large amounts of gold are now being taken out there.

The Mohawk claim, on Gold Flat, is now yielding splendid rock. Forty tons crushed at

Palmer's mill, last week, yielded $40 to the ton. The mines at Quaker Hill are paying well. The claims of Jacobs & Surgent are yielding large amounts. The result of the last ten days was $1,800. The claims are very extensive and will pay for years to come.

It is stated that the "Homeward Bound" claim, near Grass Valley, has been sold on private terms to parties in this city. The report that the "Emperor" had sold his—the "Eureka" mine—for $400,000, is contradicted. It is said that $60,000 have been realized from this mine the past month. The claim owned by H. Barnett and Geo. D. Roberts, near Union Hill, has been sold for $200,000.

SIERRA COUNTY.—We condense the following items from the *Messenger*: A company from Eureka are about to commence prospecting the old Craycroft diggings on the ridge between the North and Middle forks of the Yuba river. These diggings paid very well at one time, but have been abandoned since the Frazer river excitement. The last clean up of the Kanaka mill gave some nine thousand dollars as the result. The Union Quartz Company, at Wet ravine, have got the ledge after one year's labor, running a bed rock tunnel which cost them from five to twenty dollars per foot. The ledge is very rich, and it is said they realized $57,000 for twelve days' run.

A valuable quartz discovery is reported at Jackson's Ranch, on the Henness Pass road. Several ledges have been discovered, showing free gold in abundance. Extensive preparations are being made to start the Gold Valley Quartz Mill. They have a fine mill and ledge, that will supply any amount of quartz that assays from $40 to $200 per ton. The difficulty has been to save the gold, which is all in the sulphurets. Mr. Smith, the superintendent, proposes to try the roasting process. It will succeed.

PLUMAS.—The Quincy *Union* chronicles the following: Mining on the North Fork has taken a new start this season. There are over twenty new claims being opened. All of the "bank" claims are paying well. There are more men at work in that locality than there have been for years before. Fyheart & Co., at Humbug Valley, are at work in their claims, and are averaging about one-half ounce per day. Tripp, Cable & Co., on the North Fork, for one day's work of three men, took out eight ounces from their claim, one day last week. Their claim averages one ounce per day to the hand. The Cosmopolitan Company has made a contract with Messrs. Bolinger & Blood to furnish them with two thousand tons of ore from the Cosmopolitan (Northern) Copper Ledge.

It is reported that Bidwell & Co. intend building a large twenty-four stamp steam quartz mill, at Greenville, to work the quartz from the McClellan Ledge. Bidwell & Co's mill, located at Greenville, recently took out $17,000 in one month's run, with eleven stamps.

SISKIYOU.—The New York Quartz Company, two weeks ago, took out of their claims $900 in gold, and 500 lbs. of very rich sulphurets, in six days' run.

The Klamath *News* says the continued dry weather promises a great obstacle to successful mining operations on the Klamath during the coming Summer. The snow on the mountains is fast disappearing, the river falling, and the little streams upon which the miners depend for their supply of water are falling rapidly.

North America

LIFE INSURANCE CO.,

No. 240 Montgomery Street,

SAN FRANCISCO.

The Most Liberal Company

IN THE UNITED STATES.

All Policies Non-forfeitable and Indisputable.

No Extra Charge for Residing in the Territories, or for Traveling to and from the Eastern States.

J. A. EATON & CO.,

Managers of the the Pacific Branch.

Wanted.

GOLD QUARTZ

Suitable For Cutting Jewelry,

By **FRONTIER & DEVIERCY,**

19v10-2m 437 Pine street, San Francisco.

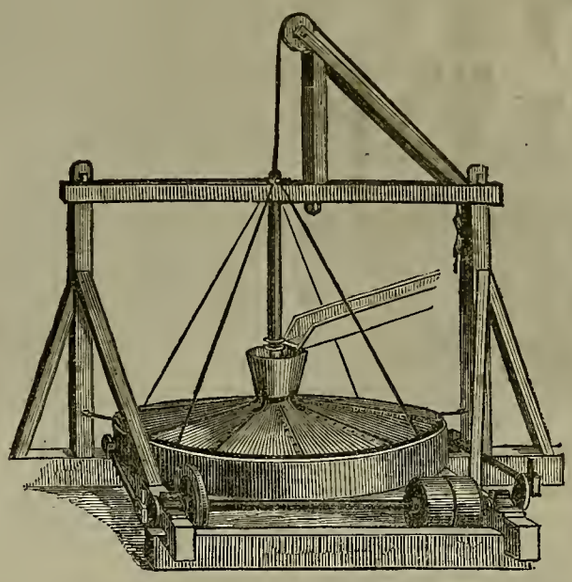
GOLD AND SILVER ORES.

UNDENIABLE FACTS FOR THE MINING PUBLIC.

At the Exhibition in the Fall of 1864, the Mechanics' Institute awarded a Premium to

E B. PRATER,

FOR THE BEST CONCENTRATOR.



The proprietors of this Concentrator feel satisfied that IT HAS NO EQUAL IN USE. Large numbers of these Machines are now in successful operation in all parts of this State, Arizona, Nevada, Colorado and Mexico. The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use.

One of these Concentrators can be seen in operation at Messrs. Kimble & Murphy's Metallurgical Works, Bryant street, between Third and Fourth, San Francisco.

Circulars sent free, giving description and reference as to working, etc., on application to

HUNGERFORD & HENDY, Proprietors,

2v11-1am **Express Building, Room No. 3 (fourth floor) San Francisco.**

MECHANICS' FAIR.

DAILY PRESS.

The Proprietors of the MINING AND SCIENTIFIC PRESS having been granted the privilege of printing the DAILY PRESS at the Pavilion, during the approaching Exhibition, are making complete arrangements to publish a full and faithful record of the Grand Exhibition, and will present gratuitously to all visitors and exhibitors the LARGEST, most ATTRACTIVE and VALUABLE paper ever issued at a public fair.

Its Free and Extensive Circulation will render it a peculiarly desirable journal for advertising. From SEVEN TO EIGHT THOUSAND individuals visited the exhibition last season in a single day and evening.

Our printing press, in active operation, rapidly throwing off an interesting sheet into the very hands of the anxious throng, presents an attractive scene, affording one of the most novel and effective modes of advertising ever offered through the columns of a newspaper. Many persons being eye-witnesses to the printing of the paper, preserve copies as reminiscences of their visit to the Fair, while others procure bound volumes to be retained as a permanent record of the Exhibition, giving a further benefit to advertisers in addition to its wide circulation.

Those wishing to secure space for advertising in the MECHANICS' FAIR DAILY PRESS, will do well to make early application to the proprietors.

DEWEY & CO.,

Patent Agents, Publishers of the Mining and Scientific Press, and Job Printers, 505 Clay street, San Francisco.

Trades and Manufactures.

EDWARD BOSQUI & CO.,

PRINTERS,

Book-Binders, Paper-Rulers,

And Blank Book Manufacturers.

No. 517 Clay street, between Clay and Sansome streets, SAN FRANCISCO. 24v10

GUSTAVUS MEYER,

(LATE MEYER & SEIFERTH)

Maker of Models for Inventors and Mining Tools.

MANUFACTURE Assayers' Scales, Weights, and all articles used by Assayers; Mathematical, Optical, and Mining Instruments repaired and adjusted; Patterns, Small Steam and Air Engines (of the newest construction), and Hydraulic Pressure Pumps, made to order.

No. 531 Market street, opposite Sansome, San Francisco. 21v9-tfq

BUSWELL & CO.,

Book-Binders, Paper-Rulers,

And Blank-Book Manufacturers,

No. 509 Clay street and 508 Commercial street, between Montgomery and Sansome, San Francisco. 4v8-tf

JOHN DANIEL,

(SUCCESSOR TO O. GORI)

MARBLE WORKS,

No. 408 Pine st. bet. Montgomery and Kearny, San Francisco.

Mantels, Monuments, Tombs, Plumbers' Slabs, Etc., On hand and Manufactured to order.

☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

NATHANIEL GRAY,

General Furnishing Undertaker,

641 Sacramento St., corner of Webb, San Francisco.

Barstow's Metallic Burial Caskets and Cases.

1tf

THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

No. 418 Market street, San Francisco. n7-tf

Palmer's Patent

ARTIFICIAL LEG,

Manufactured in Philadelphia, Penn.

JARVIS JEWETT, AGENT.

629 Washington Street, San Franc l. 10v8-1m

Professional Cards.

WM. L. DUNCAN,

Stock Broker,

No. 605 Montgomery Street, San Francisco.

Mining Shares and Legal Tender Notes bought and sold strictly on commission. Liberal cash advances made on stocks consigned for sale. 1v11 3m

S. C. BUGBEE & SON,

ARCHITECTS.

DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.

74 and 75 Montgomery Block,

SAN FRANCISCO. 25v10-3m

DR. H. AUSTIN,

DENTIST,

No. 634 Washington Street,

Between Montgomery and Kearny Streets,

[OVER SAN FRANCISCO BATHS]

SAN FRANCISCO. 20v10-qy

To Mining Companies.

A gentleman who has had many years experience in Mining Superintendence, wishes employment in a first-class mine as Superintendent. The most satisfactory references given. Enquire at this office. 16v10-tf

N. LOMBARD INGOLS,

Accountant and General Factor,

No. 32 Montgomery Block.

Address, Box 2128, Postoffice, San Francisco. 9v10

A. S. EDWARDS. JAMES N. OLNEY.

EDWARDS, OLNEY & CO.,

Real Estate, Stock, and General

Auction & Commission House.

No. 626 Montgomery Street, Montgomery Block.

JAMES N. OLNEY—Auctioneer.

SECRETARIES of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

AUGUST KUNAST,

Stock Broker,

Member of the

San Francisco Stock and Exchange Board,

Buys and Sells Stocks, Bonds, Etc.

Office, No. 540 Washington Street, San Francisco. 2v10

G. F. DEETKEN,

Mining Engineer and Metallurgist,

Address - - - - - San Francisco. 25v9

W. O. ANDREWS,

NOTARY PUBLIC,

—AND—

Commissioner of Deeds for the State of Nevada and the Territory of Arizona,

AND FOR THE

STATES OF MASSACHUSETTS AND MAINE.

Office, Montgomery Block, 626 Montgomery Street, 10v8-2m SAN FRANCISCO.

FREDERICK MANSELL.

Mechanical & Architectural Draughtsman,

No. 422 California street, corner of Leidsdorff.

Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

GEORGE H. BAKER,

Lithographer & Engraver,

No. 522 Montgomery St., San Francisco.

MINING STOCK CERTIFICATES LITHOGRAPHED IN MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.

10v8-tf

SHERMAN DAY,

Mining Engineer,

No. 56 Montgomery Block, San Francisco,

Will examine, survey and report upon mines, and consult and advise concerning investments in mining property, or the machinery management and expenditures of mines. 22q*

LEANDER RANSOM,

Civil Engineer and Surveyor,

Having been connected with the public works of the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also STATE LOCATING AGENT, and as such having the sale of

600,000 Acres of State School Lands,

At the low price of $1.25 per Acre. Terms: Twenty per cent in cash and the balance on a credit of several years.

7v9-tf Office, 328 Montgomery street.

DENIS WHELAN,

Fashionable Boot Maker.

REPAIRING NEATLY DONE, AT SHORT NOTICE.

No. 17 Fourth Street,

Near Market street, San Francisco.

15v10-1m*

The funeral procession of Abraham Lincoln in the length of its passage, in the number of mourners, in solemnity, depth and extent of grief, surpassed all that had preceeded it. The one that came nearest to it in previous history was that of Alexander the Great. whose body was borne on a golden chariot from Babylon in Asia to Alexandria in Egypt.

If good people would but make their goodness agreeable, and smile instead of frowning, in their virtue, how many would they win to the good cause.

Moses Frank Convicted.—The jury in the case of The People *vs.* Moses Frank, for forgery, brought in a verdict of conviction finding him guilty as charged in the indictment.

A Cargo of California Minerals.—The British iron ship Viscata cleared on Thursday with a cargo of minerals for Swansea, including 1,000 flasks of quicksilver, 20 cases and 610 bags of silver ore, 24,976 bags of copper ore, and 10 bars of silver lead—the entire cargo is valued at $115,000.

Work either of the muscles or of the brain, is one of the conditions of human happiness. Without it there can be no wholesome enjoyment.

It has now been ascertained by measurement, that, during the bombardment of Charleston, shells were thrown into it, which did terrible execution, from batteries stationed seven miles and a quarter from the lines of the city.

Gen. Grant did not stir from his seat or remove his cigar from his lips when the powder boat exploded at City Point. "Military men ought never to be excited," he said.

Steam Engines, Etc.,

AT AUCTION,

On Wednesday, July 19th, 1865,

At No. 39 Fremont street, San Francisco,

AT 11 O'CLOCK A. M.,

TO CLOSE AN ACCOUNT.

1 Steam Engine, 5-horse Power.

1 Steam Engine, 10-horse Power.

2 Steam Engine, 15-horse Power.

1 Steam Engine, 25-horse Power.

1 Steam Engine, 80-horse Power.

1 Mortising Machine.

1 Brogardus' Grinding Mill.

The above will be sold complete and in working order. They can be examined at the above place on the day of sale. 1v11-2w

BLASTING POWDER.

EDWARD H. PARKER,

No. 224 California Street,

Agent of the

Hazard Powder Company.

PREMIUMS.

1st Premium, at Sacramento Fair.....1862

1st Premium, at S. F. Bay District....1862

1st Premium at Sacramento.....1863

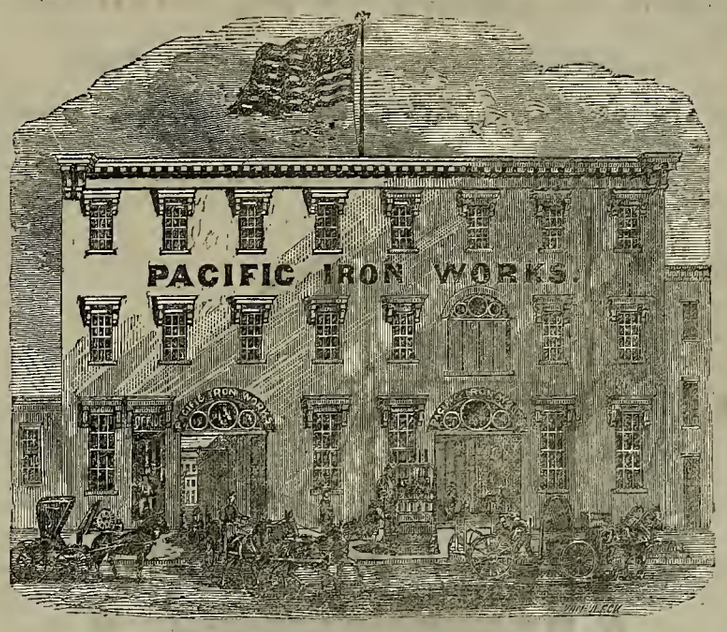
1st Premium, at San Francisco.....1864

1st Premium, for Cordials.....1864

1st Premium, for Hygienic Bitters....1864

Awarded to

23v9 **V. SQUARZA.**



THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting machinery of the most approved construction, Flour, Saw and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully solicited.

GODDARD & COMPANY.

Machinists and Foundries.

FULTON

FOUNDRY AND IRON WORKS.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

MINERS' FOUNDRY

—AND—

MACHINE WORKS,

First St., between Howard and Folsom Streets,

SAN FRANCISCO.

EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as

Steam Engines and Boilers, Flour, Saw and Quartz Mills,

Machinery, Mining Pumps, Amalgamators,

Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.

All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.

tf HOWLAND, ANGEL & KING.

JOHN LOCHHEAD'S

STEAM ENGINE WORKS,

Beale Street, near Mission Street,

SAN FRANCISCO.

Steam Engines of every description built to order—Marine, Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer.

JOHN P. GALLAGHER. JOSEPH WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to. Prices moderate. ☜

No. 125 First street, opposite Minna, next door to Pacific Foundry. 12tf

[Removed from Oregon street, between Front and Davis.]

Vulcan Iron Works Company

[ESTABLISHED 1850.]

First, Natoma and Fremont Streets.

IRON FOUNDERS,

Steam Engine and Locomotive

BUILDERS,

Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as

Mining, Steamship, and Steamboat Machinery,

Railroad Machinery, Locomotives, Car Trucks, Car Wheels, Housings and Irons; and Flouring Mills, Quartz Mills, Sugar Mills, Saw Mills,

Manufacturing Machinery of Every Kind.

Sole Manufacturers of

HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR

BETHUNE'S AMALGAMATOR;

HERSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;

BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;

FAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;

JONVAL'S IMPROVED WATER WHEEL;

STEVEN'S PISTON PACKING RINGS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.

Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, San Francisco. qy29-t

GEORGE T. PRACY,

Machinist and Blacksmith.

FAM ENGINE, FLOUR AND SAW MILL

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

qy-3 SAN FRANCISCO.

LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.

UNION IRON WORKS!

Corner First and Mission streets,

SAN FRANCISCO.

ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.

Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter.

Boilers.

Locomotive, Flue, Tubular, Upright, Cylinder and Cornish.

Amalgamating Machinery.

Wheeler & Randall's Improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Behlin's pan, Veatch's tubs, Prater's concentrators, Waklee's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills, Coleman's Crushers, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

Quartz Screens.

We are prepared to furnish both punch and slotted, from the finest to the coarsest numbers, of the best quality Russia Iron.

All work done in the best manner at the lowest cash prices. 21v10 **H. J. BOOTH & CO.**

PALMER, KNOX & CO.,

Golden State Iron Works,

Nos. 19, 21, 23 and 25 First Street,

SAN FRANCISCO.,

MANUFACTURE ALL KINDS OF

MACHINERY,

STEAM ENGINES AND QUARTZ MILLS,

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S

NEW GRINDER AND AMALGAMATOR,

HEPBURN & PETERSON'S.

AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies.

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

IDAHO MACHINE SHOP

—AND—

IRON WORKS,

D. C. HALL.....PROPRIETOR.

No. 9 First Street, San Francisco.

MANUFACTURE TO ORDER

STEAM ENGINES, BOILERS,

FLOUR AND SAW MILLS,

And every description of Machinery, including

ALL KINDS OF BRASS AND IRON WORK

Adapted to every department of Mining and Mechanics.

N. B.—The manufacture of QUARTZ MILLS are made a specialty, and all work done at the above Works guaranteed of the best material and workmanship.

☞ DON'T MISTAKE THE PLACE.

13v10 No. 9 First street, San Francisco.

UNION IRON WORKS,

Sacramento.

WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Front Street, between N and O streets,

6v10 SACRAMENTO CITY.

NOVELTY IRON WORKS,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY*. Send for a Circular.

E. T. STEEN.

39 and 41 Fremont, and 42 and 44 Beale Sts.,

SAN FRANCISCO 21v9tfq

TRUE AND BEAUTIFUL.—Some one has remarked, with equal truth and beauty, that education does not commence with the alphabet. It begins with a mother's look, with a sister's gentle pressure of the hand or a brother's noble forbearance. With handsfull of flowers in green daisy meadows, with creeping and almost imperceptible earnets, with humming bees, and glass bee-hives, with pleasant walks in shady lanes, with thought directed, in sweet and kindly tones and words, to nature and acts of benevolence, to deeds of virtue and to the source of all good, to God himself.

BATS.—Don't destroy the bats. They do an untold amount of good in catching the night-flying moths, some of which are the parents of the most destructive worms and insects. Nor do they do any harm. There was a time when we, in common with most other boys, made a practice of striking down every bat we saw, with a sort of feeling that we were doing a good thing. It was a mistake, and we are sorry to have a single bat on the conscience. Bats do good and only good, and the farmer and the farmer's boy should be the last to harm them.

PROFANITY.—The vice of profanity wears its own inroad into the minds of the young, if they are not properly guarded in the commencement of their young career. The people of this land are certainly distinguished, to an extent unknown in other countries, by profaneness. A stranger might infer from the tone of popular conversation, from the exclamations of excited individuals, from the clamors of anger and passion, that we acknowledge the Almighty for no other purpose than that we might have a name to swear by, or a convenient expletive to fill up the chasms of discourse.

LUCKY OLD MAN.—Amos Kendall, who in his old age, amassed a fortune by investing in telegraphic stocks, has devoted the sum of $50,000 to the erection of a Baptist Church in Washington city, as a memorial to his deceased wife, who was a member of that denomination. Mr. Kendall retired from General Jackson's administration poor but now, at the age of eighty, enjoys, an income of $40,000 a year.

VALUABLE GUINEA.—Not long since, a boy in Boston found a guinea dated 1676—just a hundred years before the Declaration of American Independence. Shortly after the discovery, a New York numismatologist offered the boy's father one thousand dollars for the old guinea.

THE same person who owned the farm on which the fighting commenced at the first battle of Manassas, also owned the house in which General Grant and General Lee drew up the articles of surrender.

A BRONZE statue of President Lincoln, to cost $20,000 is to be placed in Capitol Square, Albany, N. Y.

MINING LAWS AND FORMS.

Third Edition revised and enlarged.

Compiled by H. B. CONGDON.

THIS Edition contains all the laws of the *STATE OF CALIFORNIA* and *NEVADA TERRITORY*, relative to Mining Corporations together with the Mining Ordinances of Mexico, complete; Digest of Decisions of the Supreme Court; Forms etc. 16 mo. flexible cloth, 192 pp. $2 50.

Published by H. H. BANCROFT & CO.

REMOVAL!

R. WEGENER,

Accountant and Mining Secretary,

Has removed to

No. 415 Montgomery Street—west side,

Between Sacramento and California sts.,

6v10 SAN FRANCISCO.

LEHIGH COAL.

200 Tons Large Lump Lehigh Coal

Now on Hand.

I am also in constant receipt of

LEHIGH COAL.

And will be able to supply it always

At the Lowest Market Price.

JAMES R. DOYLE,

2v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

NOTICE TO MINERS.

THE UNDERSIGNED WILL SELL

MINING STOCK

In Incorporated Companies and Unincorporated Mines, in San Francisco District and in El Dorado District, Arizona Territory. It is confidently asserted and believed by most practical miners that Arizona is the richest mining country in the world. Recent developments of these mines are now attracting the attention of capitalists, who have already erected several mills, and more are going there soon. Now is the time to invest to advantage, and obtain the rise that must soon follow. Those wishing to purchase soon can do so, on most liberal terms, by calling on MR. RODNEY CLARK, 338 Montgomery street (room No. 11), San Francisco, or on H. C. SKINNER, San Jose, California.

N. B.—Freight all the way by water at a cost of 4½ cents per pound.

H. C. SKINNER,

San Jose, California.

San Francisco, April 27, 1865. 17v10

THE

WHEELER & RANDALL

Grinder and Amalgamator.

In the engraving herewith exhibited, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Plates.

The attention of the Public is respectfully called to these facts:

1st. That the Mechanical work accomplished by differently formed grinding plates, having the same diameter, weight, hardness, and revolving at the same velocity, is as follows, to wit:

The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory-formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

2d. That as a whole, the Wheeler & Randall Grinder and Amalgamator is one of the most simple, compact, substantial, convenient and efficient pans in use.

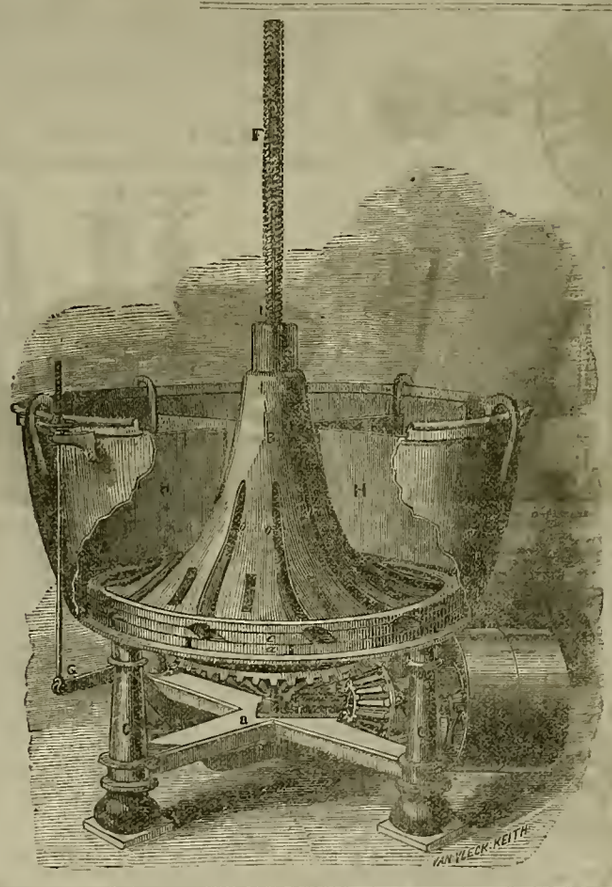
☞ Patent applied for.

MANUFACTURED AT

GOLDEN STATE IRON WORKS.....San Francisco.
UNION IRON WORKS..... "
MINERS' FOUNDRY..... "
SAN FRANCISCO FOUNDRY..... "
PRESCOTT & SCHEIDEL.....Marysville.
OREGON IRON WORKS.....Portland, Oregon.

WHEELER & RANDALL, Inventors.

SAN FRANCISCO, JUNE 13, 1865.



THE EXCELSIOR

GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings.

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity, "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

Union Iron Works and Golden State Iron Works.

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.

SAN FRANCISCO CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at TUBBS & CO.'S,

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14v10

QUICKSILVER

FOR SALE BY

S. F. BUTTERWORTH,

Northwest cor. Battery and California sts.

v9 19 SAN FRANCISCO.

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSIT ON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery, or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street, above First (opposite the Oriental Hotel), San Francisco

2v10

WE ARE NOW OFFERING OUR IMMENSE STOCK

—OF—

FINE CUSTOM MADE CLOTHING

—AND—

Gents' Furnishing Goods

AT PRICES THAT DEFY COMPETITION.

Our Stock of Clothing Consists of

ALL THE LATEST STYLES

BOTH OF MATERIAL AND FINISH.

A Large Assortment of

Trunks, Valises, Carpet Bags, Blankets, Etc.,

AT EXTREMELY LOW PRICES.

J. R. MEAD & CO.,

8v10 Cor. of Washington and Sansome streets.

Let it be Known.—When any of our readers respond (by letters of inquiry or by the purchase of articles) to advertisements found in our columns, they will confer a favor, not only upon us, but upon the advertiser, by mentioning the fact of having seen the notice in our paper

MISSED FIRE.—The preparations made to get up a big bonfire on the top of Mount Davidson, on the night of the 4th, missed fire—cause, the person whom was entrusted the match to fire it, and five dollars, in cash, as pay for the trouble, found his way into a drinking saloon and forgot his errand.

FILTH THE CAUSE.—Since the Union army occupied New Orleans, there has been no yellow fever there. Ben. Butler says that the only reason why that city was ever so afflicted was on account of its unnecessary filth. In this opinion Surgeon-General Barnes concures. Probably Savannah and Charleston and Norfolk will be safe summer residences hereafter, under the healthful municipal rule that will hereafter be introduced into those cities.

As the moon, whether visible or invisible, has power over the tides of the ocean, so the face of the loved one, whether present or absent, controls the tides of the soul.

THE largest aqueduct in the world is the Croton Aqueduct in New York. Its length is forty miles and a half, and it cost twelve and a half millions of dollars.

Pacific Mail Steamship Co.

The following Steamships will be dispatched on the following named days.

July 18th—COLDEN CITY.....Capt. W. F. Lapidge.
August 3d—COLORADO.....Capt. ———

From Folsom street Wharf

At 11 o'clock A. M., punctually to the hour,

For Panama.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A Baggage Master will be sent through each trip.

Cabin passengers will be berthed for Atlantic steamer.

OLIVER ELDRIDGE, Agent.

Corner Sacramento and Leidesdorff sts.

WATCH REPAIRING AT NEW YORK PRICES.

C. E. COLLINS,

No. 602 Montgomery street, San Francisco.

— FOR THE —

EXCLUSIVE AGENT

AMERICAN WATCH FACTORY.

A large assortment of these

Superior Watches,

In Gold and Silver Cases,

Constantly on hand, and sold at Factory prices. Also,

ENGLISH AND SWISS WATCHES,

Imported directly from the Manufacturers.

The American Company are now making VERY FINE WATCHES FOR LADIES.

☞ A large assortment of Gold Chains and Jewelry. ☜

WATCH REPAIRING AT NEW YORK PRICES.

NEW YORK PRICES.

NEW YORK PRICES.

Machinery.

McCOMB'S

CUMULATIVE POWER PRESS

AND

ARROW TIE.

E. C McCOMB, Agent.

No. 1 Government House, cor. Sansome and Washington sts.
23v10 3m

NOTICE.

The undersigned having purchased the EXCLUSIVE RIGHT in and for the State of California, for the

Manufacture and Sale of

WINHAM'S

PATENT HOSE COUPLING,

Hereby caution all parties against the manufacture or purchase of the above Hose Couplings, except through us, as any infringement will be prosecuted to the full extent of the law.

PRESCOTT & SCHEIDEL,

Marysville Foundry.

March 31st, 1865. 13v10 3m

HANSCOM'S CRUSHERS,

Made in sizes suitable for Breaking Quartz for Batteries; Rock for macadamizing or concrete; Copper Ore for sacking, sampling, or concentrating; also, for crushing Quartz for Arastras and Orhiders. The small sizes make a most efficient Crusher for Prospectors, and are arranged to be run by Hand, Horse, Water, or Steam Power. For further information address W. W. HANSCOM,

1 Golden State Iron Works, San Francisco.

THE HAMMER QUARTZ MILL.

[PATENT APPLIED FOR.]

This Machine is now complete and ready for sale. In constructing it, our aim has been to produce a light, cheap and economical Crusher—one adapted to mining on a small as well as on a large scale.

The elementary principle on which it operates is that of the stamp—the only one really reliable and economical.

But the stamp has many serious disadvantages, among which are its great weight and small velocity; the great power required to run it; difficulty in feeding properly; imperfect discharge, and the necessity of crushing wet, or the annoyance from dust in crushing dry.

All these difficulties are obviated in our machine, and the percussive blow of the stamp retained, with the further advantage of its being a drawing or grinding one.

We give to our hammers such absolute or relative weight and velocity as we choose—just such as to effect their purpose and no more—thus securing the qualities of the natural hammer blow.

The feed is self-adjusting and uniform, and as fast as the ore reaches the required degree of fineness (which depends upon the fineness of the screen or sieve used), it is instantly discharged, so that there is no packing of the ore under the hammers.

The mill crushes dry, with no more dust than that incident to feeding, which is trifling.

As the only support of the mortar is a single post set into the ground, the machine can be put in place at slight expense.

The size now being built weighs about 1,800 pounds complete; the heaviest piece not weighing over 275 pounds. It is driven by half a horse-power, and crushes from three to ten tons per day of twenty-four hours per day, according to the character of the rock and the fineness to which it is reduced.

PRICE,.....$800.

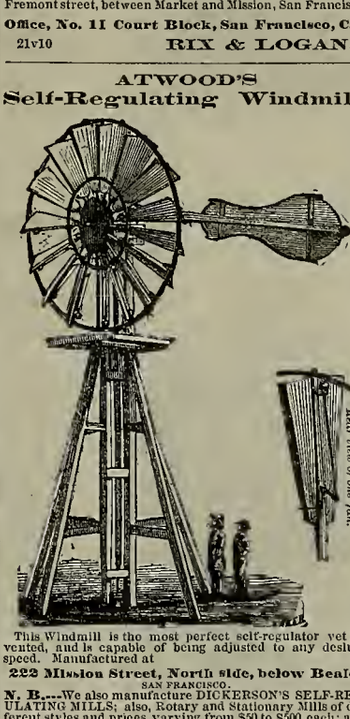
Larger ones will be furnished if desired.

We invite an inspection of the Mill now in operation adjoining the Foundry of DEVOE, DINSMORE & CO., on Fremont street, between Market and Mission, San Francisco.

Office, No. 11 Court Block, San Francisco, Cal.

21v10 **RIX & LOGAN.**

ATWOOD'S
Self-Regulating Windmill.



Rear view of one fan.

This Windmill is the most perfect self-regulator yet invented, and is capable of being adjusted to any desired speed. Manufactured at

222 Mission Street, North side, below Beale,

SAN FRANCISCO.

N. B.—We also manufacture DICKERSON'S SELF-REGULATING MILLS; also, Rotary and Stationary Mills of different styles and prices, varying from $50 to $500 each; also round and square Water Tanks made to order.

222 Mission street, below Beale. 5

HUNT'S
IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN

HORSE POWER

For Sawing Wood.

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,

No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

HUNT'S PATENT
Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,

7v10 28 Second street, San Francisco.

SALMON'S
PROPELLER AMALGAMATOR.

The proprietors and inventors of this machine, after fourteen years of practical experience in mining in California and Nevada Territory, and having a thorough knowledge of the wants of Miners and Mill men, have succeeded in making an Amalgamator, which, for the purposes intended, far surpasses any other yet presented to the public, and which can be furnished at less than one-half of the expense of any other Amalgamator, now in use, besides requiring less labor to clean and keep it in running order. The Amalgamator is simple in its construction, consisting of a pan or tub constructed of wood and adapted to either a Stone or Iron bottom. Opposite each other, and on the inside of the tub, are two flanges, from two to four inches broad, reaching from the top to near the bottom, with room for the mullers to pass under. These flanges are for the purpose of preventing the pulp from forming a circular current, and together with a number of wings placed like a screw-propeller on the muller-shaft, force a current continually on the quicksilver at the bottom and under the grinding surface of the mullers. This peculiarity of propeller-screw and side wings, in combination with a deep tub, are what the proprietors claim as new and for which a patent has been applied for. The undersigned are now manufacturing three different sizes of this machine, and the attention of the public is respectfully called to the following results obtained, from the working of Reese River rock, by this amalgamator, and assayed by Miller & Lunbaum, at Austin, Nevada:

	No.	Fine		No.	Fine
Assay	250	913	Assay	300	930
Assay	285	941	Assay for Czotman		980
Assay	286	940	Assay Water Rock		966
Assay	291	950	Assay Water Rock		998
Assay			St. Helena Ledge, W. D.		966

These, including a hundred other batches, were all worked to within fifteen per cent., and some to within ten per cent., of the assay. Parties interested will find it to their advantage to call and see the above machine in operation.

Manufactured at the San Francisco Foundry, San Francisco, California, by

J. & W. C. SALMON,

To whom all orders should be addressed. 15

TO QUARTZ MINERS.

Hinkle's Centrifugal Pulverizer and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUCAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steen, Nos. 37 & 39 Fremont street, between Market and Mission streets.

This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine, made entirely of iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

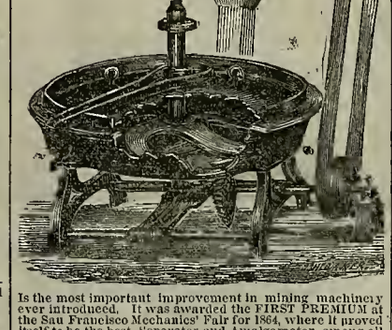
Mr. Hanson, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 60 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to

PHILIP HINKLE,

At the Novelty Iron Works, Nos. 37 & 39 Fremont street.
15-1m

BAUX & GUIOD'S
Separator & Amalgamator



Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; its small cost; its portability; The large quantity of pulp it can operate upon in a given time: it may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

Lavadaries' refuse, Refiners' ashes, Jewelers' sweepings, purchased or worked for a percentage. Ores and tailings worked or assayed at reasonable rates.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Hough & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,

Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8

FARRAND'S
Oscillating Amalgamator,

RECEIVED THE

ONLY PREMIUM

AWARDED FOR AMALGAMATORS

At the Recent Industrial Fair

OF THE

Mechanics' Institute of San Francisco.

Committee of Awards,

O. BELDEN,	W. T. GARRATT,	H. P. WAKELEE,
O. GORI,	GEO. JOHNSON,	C. M. RADCLIFF.

This Premium Amalgamator was placed on trial, at the Mechanics' Pavilion, with the Varney, Wheeler & Randall and Hepburn & Peterson Pan, each working eight hundred pounds of crushed rock.

This Unrivaled Amalgamator possesses many advantages over all others now in use.

1st. It is capable of doing double the amount of work of the ordinary Pans, at a saving of more than one-half of the power.

2d. It reduces the pulp finer, thereby producing a better result.

3d. It requires less quicksilver by one-half at a charge, whilst the loss by trituration is comparatively nothing.

4th. As an Amalgamator of gold contained in sulphurets as also for very fine or flour gold, it has no equal.

5th. This Amalgamator involves no complicated machinery, and is less liable to get out of order than any of the pans.

Manufactured at the MINERS' FOUNDRY.

W. D. FARRAND, Inventor,

R. L. OGDEN, Agent, SAN FRANCISCO,

S. E. corner Montgomery and California streets.
19v9

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Crocodile Quartz Crusher; his Pulverizer; and his Improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

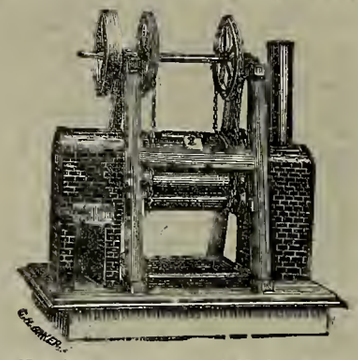
B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast, amalgamate, assort, enpelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, **B. FAUCHERY,**
Metallurgist. **Engineer,**

24v9

WM. BRUCKNER'S
Furnace for Roasting Ores.



Now in Operation at 416 Market street.

This Furnace, which is portable, and can be carried on mulebback, undertakes to roast without employing any labor whatever for the operation of stirring, which is accomplished by machinery that may be driven by steam or any other motor. It consists of an iron cylinder, which, being suspended by chains, in rotating mixes and stirs the ore, by an internal apparatus, quicker and more perfectly than can be done in any other furnace hitherto known in metallurgy. It can be applied to any kind of ore, and the rapidity and perfectedness of its operation, the great saving in fuel, and the entire saving of the labor usually required for stirring the ore, together with the small cost of constructing it, renders this furnace a most

Economical and Practical Invention.

The Furnace may be had of two sizes—one being nine feet in length and holding fourteen hundred pounds, and the other six feet in length, and holding eight hundred pounds. One horse power is required to drive the machinery of the larger sized furnace, and three-fourths of a horse-power for the smaller size. Parties wishing to erect such furnaces will please communicate to

W. BRUCKNER,

5v10 No. 416 Market street, San Francisco.

BLAKE'S
QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA,
WASHOE,
ENGLAND, FRANCE,

— AND —

THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,

Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.
4v10

VARNEY'S
PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Sellers made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and sotlers for themselves, at the **PACIFIC FOUNDRY,**

1v10 San Francisco.

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th.

Illustrated in the Mining and Scientific Press, April 9th, 1864.

HEPBURN & PETERSON.

nov8 3m*

CALIFORNIA SILVER MINES.—The Markleeville *Chronicle*, refers favorably to a new mining district in Alpine county, a short distance south of that city, known as the Raymond district. Among the more promising claims therein, the *Chronicle* names the General Grant, Sacramento, Great Eastern, Great Western, La Chili, Genessee, Wyoning and Silver Cloud—and speaks of the probability of capitalists from Nevada and tho East aiding in the development of the mineral riches of Alpine.

FLOUR DOWN AND UP.—The Stockton *Independent* anticipates a great fall in the price of flour, and says that if the speculators can run flour and wheat down to a very low figure they will be able to buy in all the crop, and next winter run up prices again to starvation rates. We think this is their plan, and we warn the farmers to be in no haste in selling from the new crop.

NEW DISCOVERY

FOR DESULPHURIZING AND DECOMPOSING

METALLIFEROUS ORES,

—SUCH AS—

Auriferous Sulphurets, Arsenites or Antimonial Telluric, Gold and Silver Ores.

By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by

DANIEL ROSS,

Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me.

EDWARD ARNOLD,
Inventor and Patentee.

Monitor, Alpine county, Cal.

W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11

KELLOG CREEK

PETROLEUM AND MINING COMPANY.

INCORPORATED JULY 11TH, 1865,

Under the Laws of the State of California.

NO. SHARES.....10,000

Par Value.....$50 00

W. F. BRANDRETH.....President

J. M. BUFFINGTON.....Secretary and Treasurer

OFFICE—Room No. 10 Government House, corner of Sansome and Washington Sts., San Francisco.

The claims of this Company consists of SIX HUNDRED AND FORTY (640) ACRES, situated on Kellog Creek, in the Marsh Creek Mining District, Contra Costa county, Cal.

One thousand (1,000) shares of the contingent fund is offered at the low price of ONE ($1.00) DOLLAR per share, full paid, all the stock being unassessable. All who wish to purchase, or make any enquiry concerning the Company, will please call on the Secretary,

J. M. BUFFINGTON,
2v11 Corner of Sansome and Washington streets.

GISBORNE'S

Anti-Fouling and Anti-Corrosive Patent Paint,

For Covering Ships' Bottoms and all Iron Work.

T. B. SHERMAN & CO.,

Sole Agents for California and Pacific Coast,

Corner of Market and First street, San Francisco,
19v10 With MARSU, PILSBURY & Co.

New Mining Advertisements.

☞ *Continued Mining Advertisements to be found on other pages.*

Caledonia Tunnel and Mining Company, Gold Hill District, Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 9th day of June, 1865, the several amounts set opposite tho names of the respective shareholders as follows:

Names.	No. Old Certificates.	No. Shares.	Amount.
L B Adsit	1220	10	$30
L B Adsit	1222	10	30
L B Adsit	1223	10	30
L B Adsit	1224	10	30
L B Adsit	1262	20	60
L B Adsit	1275	20	60
E Ayers	1176	10	30
J W Burnham	45	10	30
J W Burnham	48	10	30
J T Brennan	256	5	15
T W Birdsell	686	5	15
T W Birdsell	946	5	15
Joseph Bassett	786	10	30
A Buetell	1226	2	6
H B Brooks	1279	10	30
A E Crane	1119	9	27
A E Crane	1121	5	15
A E Crane	1238	10	30
A E Crane	1241	10	30
J E Clark	1163	10	30
Cantin & Evorett	1190	5	15
J C Collius	1062	10	30
J C Collins	1066	3	9
J C Collins	1177	20	60
J C Collins	1242	10	30
J C Collins	1235	6	18
R Z Clement	260	5	15
R Z Clement	261	5	15
E David	984	10	30
Gilbert Douglass	163	10	30
Gilbert Douglass	166	10	30
Gilbert Douglass	642	30	90
H C Douglass (balance)	643	2	6
T R Diehl	657	16	48
E M Derby	1214	10	30
F M Derby	1215	10	30
E M Derby	1216	10	30
Edward Farnum	1282	10	30
J Holland	1227	5	15
Thos Hill	1111	10	30
Thos Hill	1112	10	30
Thos Hill	1113	10	30
Thos Hill	1114	10	30
H Harris	474	5	15
W H Harnden	684	10	30
W H Harnden	1091	5	15
A A Harris	726	9	27
J G Dodge	1169	20	60
J Johnson	1241	10	30
J Johnson	1245	10	30
A Linden	1205	15	45
W L Mead	78	25	75
W L Mead	70	25	75
Catherine McCallin	280	10	30
Catherine McCallin	1183	10	30
Peter Malley	515	3	9
C G Moxley	680	5	15
J W Mackay	808	10	30
J W Mackay	1057	5	15
J W Miller	1251	25	75
F A Munroe	1201	20	60
F A Munroe	1202	10	30
F A Munroe	1203	5	15
R B Owen	1257	5	15
E J Parker	145	10	30
S J Pattel	227	10	30
J Parrish	461	10	30
J Parrish	646	5	15
F L A Ploehs	1281	7	21
A Pichion	1205	10	30
J D Ryan	1076	10	30
J D Ryan	1228	10	30
E Stevens	1229	10	30
E Stevens	1231	10	30
E Stevens	1234	10	30
E Stevens	1235	30	90
B Sheldon	334	10	30
J B Sutherland	373	6	15
H Schmedell	1156	10	30
H Schmedell	1252	5	15
E L Smith	1255	10	30
E L Smith	1256	10	30
Peter Taylor	688	10	30
E Tomlinson	1261	10	30
N N Tilden	546	10	30
N N Tilden	677	15	45
A C Teitman	1267	20	60
A C Teitman	1268	20	60
A C Teitman	1269	20	60
A C Teitman	1272	10	30
Joseph Tilden	1276	10	30
G A Weed	206	2	6
L & E Wertheimer	787	14	42
L & E Wertheimer	918	5	15
F H Woods	1134	10	30
Henry Wilson	1258	6	15

No New Certificates.	No. Shares.	Amount.
J P Atkinson 35	5	$15
J M Boffington 108	30	90
C S Bowden 31	3	9
C S Bowden 131	10	30
C S Bowden 132	10	30
C S Bowden 133	10	30
C S Bowden 134	5	15
C S Bowden 140	10	30
C S Bowden 141	20	60
C S Bowden 142	20	60
C S Bowden 143	10	30
C S Bowden 144	10	30
C S Bowden 145	5	15
C S Bowden 146	2	6
Bosworth & Russell 33	10	30
Henry Barrett 76	10	30
Michael Burke 86	15	45
Wm Bird 89	5	15
J S Burgess 138	15	45
J S Burgess 139	5	15
Chas D Coon (Trustee) 67	10	30
Chas D Coon (Trustee) 60	10	30
J W Epley 82	10	30
J W Epley 83	10	30
J W Epley 84	10	30
J W Epley 85	10	30
J W Epley 106	10	30
J W Epley 107	10	30
J W Epley 123	10	30
J W Epley 124	10	30
J R Fitch 93	10	30
J R Fitch 94	10	30
C Green 36	5	15
Wm M Graham 74	10	30
Anna Garrity 87	10	30
W J Gunn 95	10	30
W J Gunn 96	10	30
W J Gunn 98	10	30
W J Gunn 99	10	30
M Heineman 19	10	30
M Heineman 28	7	21
D Hardy 112	30	90
J Martenstein & Co 60	10	30
J Martenstein & Co 61	10	30
Henry McCary 111	10	30
F A Munroe 126	10	30
F A Munroe 128	10	30
F A Munroe 129	20	60
F A Munroe 130	5	15
John Maloney 119	5	15
E S Morrisson 122	20	60
Levi May 135	20	60
A Pichion 113	5	15
A Pichion 114	1	3
J G Perkins 103	5	15
J G Perkins 104	5	15
M Quinn 147	4	12
A B Samson 2	10	30
A B Samson 3	10	30
Isaac Swain 10	20	60
Isaac Swain 12	10	30
Isaac Swain 13	10	30
Isaac Swain 14	10	30
Isaac Swain 15	10	30
Isaac Swain 16	10	30
Isaac Swain 25	10	30
Isaac Swain 55	10	30
Isaac Swain 125	10	30
Z W Sparks 18	10	30
A G Soule 81	10	30
W P Taylor (Trustee) 78	10	30
W P Taylor (Trustee) 79	10	30
Isaac Tabor 116	10	30
Isaac Tabor 117	10	30
John Johnson 54	10	30
R Kavanaugh 88	10	30
F W Winne 53	10	30
F W Winne 80	20	60
J C Whitaker 40	20	60
J C Whitaker 50	10	30
J C Whitaker 51	10	30
Wm. N. Wade. 1005	75	225

And in accordance with law, and an order of the Board of Trustees, made on the 9th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the salesroom of Maurice Dore & Co., at No. 327 Montgomery street, San Francisco, on Saturday, the 29th day of July, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. M. BUFFINGTON, Secretary.

Office, 10 Government House, corner Sansome and Washington streets, San Francisco. jy15

Chloride Ledge Gold and Silver Mining Company. Location of Mine: Blue Mountain District, Calaveras county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 11th day of July, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, No. 606 Montgomery street, San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. H. SMITH, Secretary.

Office, No. 606 Montgomery street, San Francisco. jy8

Good Hope Gold and Silver Mining Company, Alpine District, Alpine County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on or before the 7th day of August, 1865, in United States gold and silver coin, to the Secretary, at his office, or to H. MORRIS, in Markleeville. [*Delinquents will be held for accruing costs after that date.*]

Any stock upon which said Assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

PRESTON MORRIS, Secretary.

Office, 526 Montgomery street, San Francisco. jy15

George Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

ASSESSMENT No. 6.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, or to S. A. HAWKINS, Superintendent, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, 410 Montgomery street, San Francisco. jy15

Hallock Gold and Silver Mining Company—Location of Works: Great Mogul Mining District, county of Alpine, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of July, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 311 Commercial street, San Francisco, or to M. Scott, Mogul, Alpine county, Cal.

Any stock upon which said assessment shall remain unpaid on the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 26th day of August, 1865, to pay the delinquent assessment, together with the costs of advertising and expenses of the sale.

H. B. FORESTER, Secretary.

Office, 311 Commercial street, San Francisco. jy15

La Victoire Copper Mining Company, of Hunter's Valley, Mariposa county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of three ($3) dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, 606 Merchant street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 28th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

G. FRANCIS PETRARCHI, Secretary.

Office of La Victoire C. M. Co., 606 Merchant street, San Francisco. jy15

Marathon Gold and Silver Mining Company, Keyes District, Mono county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 12th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Milo Page	1 2 3 4	178	$89 00
Milton Dodson	7 9 10 12	138	69 00
Daniel Darragh	28	198	99 00
Mrs W H Graham	31	10	5 00
W T Sharp	32	10	5 00
P B Green	33	10	5 00
Myron Lafever	34	20	10 00
J B White	35 36	30	15 00

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Cobb & Sinton, No. 406 Montgomery street, San Francisco, on Saturday, the 20th day of July, 1865, at 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

E. C. McCOMB, Secretary.

Office, Room No. 1, northwest corner Washington and Sansome streets, San Francisco. jy15

Paragon Petroleum Company, Manttole Mining District, Humboldt county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 1st day of July, 1865, an assessment of thirty cents per share was levied upon the assessable stock of said Company, payable on the third day of July, 1865, in United States gold and silver coin, to D. S. CUTTER, Secretary, room 28 Government House, corner Washington and Sansome streets, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 6th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 19th day of August, 1865, at 10 o'clock A. M., to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

jy15 D. S. CUTTER, Secretary.

Smoky Valley Gold and Silver Mining Company, Smoky Valley District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of one dollar and fifty cents per share was levied upon the capital stock of said company, payable on the 15th day of July, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, or to T. W. BRADLEY, Superintendent, at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 30th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. W. KNIGHT, Secretary.

Office, 36 Exchange Building, corner Washington and Montgomery streets, San Francisco. jy15

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander Co., Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of fifty (50c) cents per share was levied on the 15th day of July, 1865, upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, E. J. DRINKHOUSE, No. 228 Front street, San Francisco, or to GEO. T. TERRY, Austin, Lander county, Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 6th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

E. J. DRINKHOUSE, Secretary.

Office, No. 228 Front street, San Francisco. jy15

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine county, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 8th day of July, 1865, an assessment of sixty cents per share was levied upon the capital stock of said company, payable on the 10th day of July, 1865, in United States gold and silver coin, to the Secretary, at the company's office, No. 55 Montgomery Block, city and county of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

T. R. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, S. E. corner of Montgomery and Washington streets. Office hours: 10 A. M. to 4 P. M. San Francisco, July 8, 1865. jy15

Sierra Nevada Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

ASSESSMENT No. 3.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of seventy-five cents per share (being 25 cents per month for the months of May, June and July, 1865) was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, or to S. A. HAWKINS, Superintendent, at Silver Mountain

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of A o pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.

Office, 410 Montgomery street, San Francisco.

NOTICE.—At the above meeting of said Sierra Nevada Co., Assessment No. 1, levied July 8, 1863, for ten cents, and Assessment No. 2, levied November 1, 1864, for twenty-five cents per share, were and are hereby declared rescinded, and stockholders having paid said assessment, or any portion thereof, will be credited on above Assessment No. 3 accordingly.

jy15 J. WARREN CLARK, Secretary.

Vulcan Mining Company, Santa Fe Mining District, Lander county, Nevada.

NOTICE.—The Annual Meeting of the stockholders of this Company will be held at Room No. 4, northwest corner of Clay and Front streets, San Francisco, Cal., on Saturday, August 5th, 1865, at 1 o'clock P. M.

jy15-td ALPHEUS BULL, President.

ATTENTION, MINERS!

LINSCOTT'S PATENT CHAMBER DRILL.

Great Improving in Blasting.

Having the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole, as will be understood on reference to explanation of cut, giving more than double the effect in blasting.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

Metallurgy.

ASSAYERS

Desirous to commence an ASSAY OFFICE in the mines may buy, at a very low figure, in a prosperous mining county, A complete set of Assaying Apparatus, Scales, Chemicals, and everything necessary to carry on said business. Apply to Lock Box No. 752, Postoffice, San Francisco, stating name and where an interview may be had. 17v10

FIRST PREMIUM
FOR REFINING COAL OIL,

At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,
17v10 613 Third Street, bet. Brannan and Townsend.

EUROPEAN
METALLURGICAL WORKS,
—AND—
Practical Mining School,

Bryant Street, Between Third and Fourth,

SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. KIMBALL, J. R. MURPHY.
10v10

To Prospectors.

THE Directors of the San Francisco PACIFIC METALLURGICAL WORKS offer the following inducements to Prospectors:

NOTICE.—Knowing it will benefit our country to have it well prospected, we agree, if any party will forward us samples of minerals of any kind for assay, express paid, inclose TWO DOLLARS for the same, to return them a correct assay, with the best method of working, and feasibility of having the same worked in this city.

WORKS—North Beach. OFFICE—511 Sacramento street.
Box 511, Post Office, San Francisco. [v9-20tf

S. W. HOWLAND,
COPPER CRUSHER AND SAMPLER.

All Work done at the Shortest Notice.

No. 24 California Street,

Between Davis and Drumm,

In the Rear of Thomas' Planing Mill,

16-q SAN FRANCISCO.

WILLIAM PENROSE,

Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,

Is prepared to buy in any quantity

COPPER, SILVER, GOLD, LEAD

AND OTHER VALUABLE ORES;

Also Lead Bars Containing Gold and Silver,

☞ Full value paid on delivery in this City.☜
Address Lock Box No. 992, P. O., San Francisco. 25v10

Copper, Lead, Gold, Silver,
Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,

Agent for Townshend, Wood & Co., Swansea,

No. 416 Battery Street, San Francisco.
15v10-3m

ORES WANTED.

Gold, Silver and Lead Ores Purchased,

OR WORKED BY SMELTING OR AMALGAMATING,

At my Metallurgical Works in the City

Assay Charges for Ore.....Only $2.50

Apply to **J. MOSHEIMER,**
14v10-1m 338 Montgomery Street, San Francisco

MARTIN & CO.,

Office, Stevenson House,

Corner California and Montgomery streets (up stairs).

WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES,

Assaying eight per cent. and upwards of Copper to the ton.

We will make advances upon Ores of Copper.
San Francisco, Post Office Box 1259, 22v10

BY AUTHORITY OF THE STATE OF CALIFORNIA

Having fully complied with the law by a deposit of $525,000 bonds of the State of California and the United State

BIGELOW & BROTHER,

GENERAL INSURANCE AGENTS,

FIRE, MARINE AND LIFE INSURANCE,

Capital Represented.....$15,000,000.

California Deposit..... $525,000

Office Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.

LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets	$1,500,000
HOME INSURANCE COMPANY, of New York, Assets	3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets	2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets	1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets	600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets	600,000
CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.	

Policies issued on Freights, Cargoes, and Treasure, from and to All Parts of the World. Voyage War Risks taken on Hulls.

Fire Insurance Policies issued on all kinds of Insurable Property in the Country or City. Losses Payable in Gold Coin of the United States.

We represent the Oldest and Best Companies in the United States, and offer as favorable terms as any agency on this Coast.

Losses paid immediately on adjustment.

BIGELOW & BROTHER,

17-6m **General Agents.**

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp), Belgium) their superior.

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 16, 1865. 11v10-tf

SAN JOSE INSTITUTE

—AND—

COMMERCIAL COLLEGE,

LOCATED AT SAN JOSE, CAL.

MALE AND FEMALE.

The next session of this Institution will commence on

Monday, July 31, 1865.

An experienced and competent BOARD OF INSTRUCTION is engaged, and every facility will be afforded for a thorough course of study, both in the Academic and Commercial Departments.

Catalogues, containing full particulars, furnished upon application to F. GATES, Director,
25v10-3m San Jose, Cal.

NOTICE OF APPLICATION OF MARRIED WOMAN TO become a Sole Trader.—Notice is hereby given, that JANE C. SMITH, of the city and county of San Francisco, intends to make an application to the District Court of the Fifteenth Judicial District of the State of California, in and for the city and county of San Francisco, on the twenty-ninth day of July, A. D. 1865, for an order of said Court, permitting her to carry on business in her own name and on her own account, pursuant to an act of the Legislature of the State of California, passed April 12th, 1852, entitled "An Act to authorize married women to transact business in their own name," and of the Act amendatory and supplementary thereto, passed April 18th, 1862. The business she intends to carry on is that of the purchase and sale, leasing and mortgaging of real estate, the cultivation of lands, and all matters therewith, or with either of them connected, and of a general trader, in the city and county of San Francisco and the county of Contra Costa.

JANE C. SMITH.
June 29th, 1865. jy1-4w

PARAGON PETROLEUM COMPANY.

Incorporated June 2, 1865,

Under the Laws of the State of California.

CAPITAL STOCK,

$600,000.

NO. SHARES.....6,000

Par Value.....$100

OFFICERS:

President.....ROBERT KIRK
Treasurer.....WM. H. TOBEY
Secretary.....D. S. CUTTER

TRUSTEES:

ROBERT KIRK, T. G. DUFF, WM. H. TOBEY.

OFFICE:

At WM. H. TOBEY & CO.'S Petroleum Agency, Room No. 28 Government House, corner of Sansome and Washington streets, SAN FRANCISCO.

The claims of this Company consist of ONE HUNDRED AND SIXTY (160) ACRES of oil land, favorably located on the North Fork of the Mattole river, adjoining the grounds of the Union Mattole Company, Mattole District, Humboldt county, California. The Company are now actively engaged in the development of the claims.

San Francisco, June 14, 1865. 24v10

CAPITALISTS

OF THE

PACIFIC COAST,

And others interested in the

NEW GOLD FIELDS OF COLORADO,

And the Western Territories, will do well to subscribe for the

Colorado Miner's Register.

PUBLISHED DAILY AND WEEKLY, AT CENTRAL City, in the heart of the great mineral belt of the Republic.

ITS CORRESPONDENCE from all parts of the country will be interesting to all Western men.

TERMS:

Daily—One Year	$25 00	Weekly—One Year	$7 00
" Six Months	13 00	" Six Months	3 50
" Three Months	7 00	" Three Months	2 00

Address,

COLLIER & WALLS,
Publishers "Miner's Register,"
22v10tf Central City, Colorado Territory.

Our Patent Agency.

The PATENT AGENCY of the MINING AND SCIENTIFIC PRESS has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of LETTERS PATENT from the United States and foreign Governments cannot be over-rated, and the Proprietors of the PRESS, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

TEETH

☞ Extracting Without Pain. ☜

Drs. Whitcomb & Dyer,
DENTISTS,

[Successors to W. H. Irwin.]

No. 205 Third Street, near Howard,

v9 SAN FRANCISCO.

Mining Notices--Continued.

☞ *New Mining Advertisements to be found on another page.* ☜

Bella Vista Gold and Silver Mining Company, Cacachilas District, Lower California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 26th day of June, 1865, an assessment of twouty-five conts per share was levied upon the capital stock of said company, payable on the 27th day of June, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, No. 326 Clay street, San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 29th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 12th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and exponses of the sale. By order of the Board of Trustees.

J. FULLER, Secretary.
Office, 326 Clay street, San Francisco. jy1

Bolinas Petroleum Company, Marin County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of June, 1865, an assessment of 25 cents per share was levied upon the capital stock of said Company, payable on the 1st day of July, 1865, in United States gold coin, to the Secretary, at the office of the company, No. 611 Clay street, Room 8, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 19th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. L. KIRBY, Secretary.
Office, 611 Clay street, room 8, San Francisco, jy1

Cherokee Gold and Silver Mining Company, Echo District, Humboldt County, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 23d day of June, 1865, an assessment of seventy-five (75) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at his office, northeast corner Montgomery and Jackson streets, San Francisco.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 29th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 12th day of August, 1865, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

L. FRANCONI, Secretary,
Office, northeast cornor of Montgomery and Jackson streets, San Francisco. je24

Emilia Mining Company, State of Guerrero, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 26th day of June, 1865, an assessment of fifty cents per share was levied upon the assessable stock of said Company, payable on the 27th day of June, 1865, in United States gold coin, to the Secretary at the office of the Company, No. 55 Montgomery Block city and county of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 29th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 12th of August 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.
Office, No. 55 Montgomery Block, southeast corner of Montgomery and Washington streets.
San Francisco, June 26, 1865. jy1

El Alamo de San Antonio Mining Company, San Antonio Mining District, Lower California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 6th day of December, 1864, (re-advertised May 27th, 1865,) the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Susan Sweetser	5	10	$10 00
W R Hughes	20	10	10 00
W R Hughes	33	15	15 00
James E Freeman	48	20	20 00
S D Stone	63	15	15 00
G H Chase	58	25	25 00
E Schlatt	66	10	10 00
Albert A Muller	67	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of May, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by John Middleton & Son, No. 404 Montgomery street, San Francisco, Cal., on Saturday, the 15th day of July, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

THOMAS RUTHERFORD, Secretary.
Office, 514 Bush street, San Francisco. jy1

El Dorado Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

ASSESSMENT No. 5.—Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 5th day of June, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 15th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 31st day of July, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.
W. D. ROOT, Deputy Secretary.

Office, No. 410 Montgomery street, San Francisco.

NOTICE.—At the above meeting, assessment No. 1, levied July 8th, 1863, assessment No. 2, levied August 4th, 1863, and assessment No. 3, levied October 15th, 1863, of ten cents per share each; also, assessment No. 4, levied September 24th, 1864, of fifty cents per share, were rescinded, and stockholders having paid said assessments will be credited on the above assessment, No. 5, accordingly. Also, notice is given, that the additional amount of twenty cents per share (being properly assessment No. 5), was levied for the month of June, 1865.

J. WARREN CLARK, Secretary.
jel0 W. D. ROOT, Deputy Secretary

POSTPONEMENT.—The advertisement of stock delinquent on the above assessment is hereby postponed until Saturday, July 22d, 1865, and the sale thereof until Monday, August 7th, 1865. By order of the Board of Trustees.

jy15 J. WARREN CLARK, Secretary.

Hancom Copper Mining Company, Low Divide District, Del Norte county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 19th day of June, 1865, an assessment of fifteen (15) cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 22d day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 5th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

S. S. SWEET, Secretary.

Office, 609 Market street, San Francisco. je24

Jewett Gold and Silver Mining Company, Works located at Gold Hill, Storey county, State of Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the the 22d day of May, 1865, the several amounts set opposite the name of the respective shareholder, as follows:

Name.	No. Certificate.	No. Shares.	Amount.
A H Houston	61	50	$50 00

And in accordance with law, and an order of the Board of Trustees, made on the 22d day of May, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on the 15th day of July, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

G. M. BURNHAM, Secretary.

Office, 509 Clay street, San Francisco. jy1

Kelsey Gold and Silver Mining Company, Kelsey District, El Dorado county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 30th day of May, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Wm Searle	140	30	$9 00
Wm Searle	not issued	10	3 00
John W Gould	251	20	6 00
Edward Franklin	307	10	3 00
Edward Franklin	457	10	3 00
Edward Franklin	485	83	bal 14 90
Daniel Crouin	460	10	3 00
Daniel Crouin	461	10	3 00
Daniel Crouin	462	10	3 00
E Alexander	471	10	3 00
Henry Von Poser	487	10	3 00

And in accordance with law, and an order of the Board of Trustees, made on the 30th day of May, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the salesroom of Cobb & Sinton, 406 Montgomery street, San Francisco, on the 15th day of July, 1865, at 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

S. C. GARDNER, Secretary.

Office, No. 15 Drumm street, San Francisco. jy1

Lord Byron Gold and Silver Mining Company, Devil's Gate District, Nevada.

Notice is hereby given, that the annual meeting of the stockholders of said company, for the election of Trustees and for the transaction of other business, will be held at the office of the company, No. 629 Washington street (room 5), on Wednesday, July 19th, 1865, at 7 o'clock P. M.

H. B. CONDON, Secretary.

San Francisco, July 1, 1865. jy1-3w

La Libertad Gold and Silver Mining Company, Cacachilas District, Lower California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 27th day of June, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 14th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. VALE, Secretary.

Office, 36 Exchange Building, San Francisco. jy8

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible.

Lady Franklin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 3, levied on the 16th day of July, 1863, and assessment No. 4, levied on the 3d day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Assessment No. 3, levied July 16th, 1863.

Names.	No. Certificate.	No. Shares.	Amount.
Wm Fido (locator)	not issued	12	$3 00
J G McCauley "	not issued	12	3 00
W T Turner "	not issued	25	6 25
Wm Mercer "	not issued	40	10 00
J H Jacobs "	not issued	25	6 25
Jno Bardsley "	not issued	15	3 75
Crowson Smith "	not issued	11	3 75
Estate of H'y Mercer	not issued	15	3 75

Assessment No. 4, levied June 3d, 1865.

Jno G McCauley (loc.)	not issued	12	6 00
Wm Fido "	not issued	12	6 00
W T Turner "	not issued	25	12 50
Wm Mercer "	not issued	40	20 00
C Larson "	not issued	82½	41 25
James H Jacobs "	not issued	25	12 50
Crowson Smith "	not issued	11	5 50
Estate of H'y Mercer	not issued	15	3 75
John Bardsley (loc.)	not issued	15	3 75
John G McCauley	98	7	3 50
T K Wilson	49	3	1 50
T K Wilson	50	2	1 00
Wm Mercer	cer 57, 20 shs		
	cer 58, 10 shs; cer 59, 10 shs		
	cer 60, 10 shs; cer dl, 5 shs		
	cer 63, 5 shs; cer 04, 5 shs		
	cer 65, 5 shs	70	35 00
A J Field	178, 5 shs; 181, 2½ shs	7½	3 75
Mrs M A Harris	73, 5 shs; 74, 5 shs	10	5 00
Josiah Legro	117, 5 shs; 157, 5 shs		
	107, 10 shs; 169, 2 shs	22	11 00
Thomas Odgers	139	4	2 00
Henry Odgers	152	4	2 00
Daniel Odgers	174	4	2 00
T G Burns	175	6	3 00
J P Davis	102	1	50
Mirth Silverberg	161	3	1 50
G C McAllister	150	3	1 50
G C McAllister	160	2	1 00
A H Powers	174	10	5 00
Jas Porteous	75, 5 shs; 76, 5 shs	10	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 3d day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the office of the Company, 305 Montgomery street, corner of Pine, San Francisco, on the 28th day of July, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, San Francisco. jy8

Napa Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.—Assessment No. 5.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of June, 1865, an assessment of sixty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the company, or to S. A. HAWKINS, Superintendent, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 14th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.

Office, No 410 Montgomery street, San Francisco.

NOTICE.—At the above meeting it was ordered that Assessments No. 1, 2, 3 and 4, levied July 1st, 1863, of 10 cents; August 24th, 1863, of 10 cents; October 27th, 1863, of 10 cents, and October 17th, 1864, of 30 cents, be and the same are rescinded, and stockholders having paid said assessments, or any portion, to be credited on Assessment No. 5 accordingly. (jy8) J. WARREN CLARK, Secretary.

Pennsylvania Silver Mining Company, Reese River District, Lander county, State of Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 29th day of May, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Aitken, Robert	11	25	$31 25
Aitken, Robert	12	25	31 25
Aitken, Robert	30	15	18 75
Bowley, S C	27	10	12 50
Bryan, Wm J	16	10	12 50
Campbell, T Jr	1	25	31 25
Campbell, T Jr	2	25	31 25
Campbell, T Jr	4	10	12 50
Campbell, T Jr	5	10	12 50
Campbell, T Jr	7	5	7 25
Coleman, Wm T	29	25	31 25
Ensign, Geo H	32	150	187 50
Forbes, Wm H	6	10	12 50
Forbes, Wm H	not issued	140	175 00
Hunsaker, J C	not issued	200	400 00
McKee, D R	26	25	31 25
Nutting, C Jr	17	25	31 25
Nutting, C Jr	18	25	31 25
Nutting, C Jr	not issued	50	62 50
Pease, E T	9	25	31 25
Steele, J G	25	5	6 25
Ten Eyck, Samuel	13	25	31 25
Ten Eyck, Samuel	14	25	31 25
Ten Eyck, Samuel	15	25	31 25
Ten Eyck, Samuel	31	20	25 00
Watsou, Wm C	not issued	65	81 25

And in accordance with law, and an order of the Board of Trustees, made on the 29th day of May, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, Cal., on Monday, the 17th day of July, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

T. B. CUNNINGHAM, Secretary.

Office, 55 Montgomery Block, southeast corner Montgomery and Washington streets, San Francisco.

San Francisco, July 1, 1865 jy1

Our Advertising Circular Will be furnished free on application to this office. Its contents are as follows:

Corporation Assessment Law of California.
Economy in Mining Advertising.
Table for Advertising Assessments on Saturdays.
Calendar for 1865-1866.
Information about Obtaining Patents.
Table of Distances on the Pacific Coast.

Rose Gold Mining Company, Location, Mariposa County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 8th day of June, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the company, No. 338 Montgomery street, (Room No. 12,) San Francisco.

Any stock upon which said assesment shall remain unpaid on Saturday, the 22d day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 5th day of August, 1865, to pay the delinquent assessment thereon, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. M. PECK, Secretary.

Office, No. 338 Montgomery street (Room No. 12), San Francisco. je24

St. Paul Gold and Silver Mining Company, Amador District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of June, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 22d day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. DUPERU, Secretary.

Office, No. 710 Sansome street, San Francisco. jy8

San Rafael Mining Company, Ranchita, Lower California.

Notice is hereby given, that at a meetiug of the Board of Trustees of said company, held on the 29th day of June, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable on the 1st day of July, 1865, in United States gold and silver coin, to the Secretary, EDWARD A. HAWLEY, at the office of the Company.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 29th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 15th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

EDWARD A. HAWLEY, Secretary.

Office, corner California and Battery streets, San Francisco, Cal. jy1

Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 29th day of June, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, in San Francisco, or to J. M. PIKE, Superintendent, at Copperopolis.

Any stock upon which said assessment shall remain unpaid on the 28th day of July, 1865, will be advertised on the 29th day of July, 1865, as delinquent, and unless payment shall be made before, will be sold on Monday, the 14th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

EDWARD C. OVELL, Secretary.

Office, No. 436 Jackson street, San Francisco jy1

Office of the United States Gold and Silver Mining Company, San Francisco, Cal.—Location of Mines: in Santa Fe and Raveuswood Mining Districts, Lander county, Nevada.

Notice is hereby given, that in accordance with a resolution of the Board of Trustees of the above named Company, passed on Wednesday, the fifth day of July, 1865, and in accordance with the by-laws of said Company, a meeting of the stockholders of the above named Company will be held at the office of the Company, No. 505 Clay street, in this city, on Thursday, the tenth day of August next, at 7½ o'clock P. M., for the purpose of authorizing and empowering the Trustees of said Company to sell one or more of the mines belonging to the said United States Gold and Silver Mining Company, and for the purpose of changing the by-laws of the same, and for the transaction of any and all business that may legally come before the meeting. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

San Francisco, July 5, 1865. jy8 5w

Vulcan Mining Company, Santa Fe District, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of August, 1864, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 22d day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 5th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room No. 4, northwest corner Clay and Front streets, San Francisco, Cal. je24

"Say, why should man for thirst be given
If not for wine bestowed by Heaven
To quench such drought as mine?
Without it, I'm a fish on land,
A barren heap of parching sand—
Then give me joyous wine."—*Trinklied.*

Delicacy of flavor, exhilaration without intoxication, and every other desirable property belonging to the rightly fermented Juice of the Grape, are to be found in the "Gerke Wine," from the celebrated Bosquejo Vineyard, Tehama county.

There is no wine produced in California that can bear comparison with this, and it would be difficult to find a European wine, of the same class, that can surpass it.

The vintage of 1862 is now offered for sale, in quantities to suit, by the Agent of the vineyard,

A. S. LOWNDES,

Basement of the New York Hotel, southwest corner Battery and Commercial streets, San Francisco. 20v10-qy

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

Whitlach Yankee Blade Silver Mining Company, Lander county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 20th day of May, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
T B Bruffey	1	5	$50 00
T B Bruffey	2	5	50 00
T B Bruffey	3	10	100 00
T B Bruffey	4	10	100 00
T B Bruffey	5	10	100 00
T B Bruffey	6	10	100 00
Asaph Gray	8	11½	115 00
Asaph Gray	11	4	40 00
P C Lander	27	20	200 00
A B Gayle	33	5	50 00
W B C Harker	35	10	100 00
Mulford Nickerson	38	12½	125 00
John A Work	45	5	50 00
John A Work	55	5	50 00
H F Cutter	47	5	50 00
H F Cutter	52	5	50 00
H F Cutter	53	6	60 00
Mrs L W Eckley	49	1	10 00
Dr O P Warren	63	2½	25 00
Dr O P Warren	54	2½	25 00
James Camp	65	3	30 00
James Camp	70	1	10 00
S Knox	81	20	200 00
S Knox	82	20	200 00
S Knox	85	10	100 00

And in accordance with law, and an order of the Board of Trustees, made on the 26th day of May, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Company, 402 Front street, on the 15th day of July, 1865, at the hour of 3 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. jy1

Yosemite Silver Mining Company, Oro Fino District, Humboldt county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 3d day of July, 1865, an assessment of one dollar and twenty-five cents ($1.25) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to D. H. CROWE, No. 402 Front street (up stairs), San Francisco, or to JAS. T. MACLEAN, Superintendent, at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 19th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

S. O. PUTNAM, Secretary,

San Francisco, July 3, 1865. jy8

Yankee Blade Tunnel and Colossal Silver Mining Companies, Reese River District, Lander county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 1, levied on the 12th and 15th day of January, 1864, and assessment No. 2, levied on the 1st day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

YANKEE BLADE TUNNEL COMPANY.

Assessment No. 1—levied January 15th, 1864.

Names.	No. Certificates.	No. Shares.	Amount.
C B Harwood	not issued	200	$100 00
T F Gould	not issued	200	100 00
M H Farley	not issued	15	7 50
W Holt	16 39-100 ca	200	100 00
A Strobridge	20 21 23 24		
	25 26 27 29 31		
	32 33 34 35 36-5 ea	70	35 00

Assessment No. 2—levied June 1st, 1865.

C B Harwood	not issued	200	$20 00
C B Harwood	8 10-50 ca	100	10 00
W E Greenwell	5 6-150 ca	300	30 00
J F Derkin	not issued	100	10 00
W Holt	16 39-100 ca	200	20 00
H H Moore	12 13-150 ca	200	30 00
J B Munn	14 15-20 ca	40	4 00
M H Farley	not issued	15	1 50
A Strobridge	20 21 23 24		
	25 26 27 29 31		
	32 33 34 35 36-5 ea	70	7 00
John A Cook	not issued	300	30 00
T F Gould	not issued	200	20 00

COLOSSAL SILVER MINING COMPANY.

Assessment No. 1—levied January 12th, 1864.

Names.	No. Certificates.	No. Shares.	Amount.
C B Harwood	not issued	80	$40 00
W Holt	cert. 22, 100 shares		
	cert. 29, 138 shares	238	119 00
H H Moore	not issued	268	134 00
Samuel Moore	not issued	5	2 50

Assessment No. 2—levied June 1st, 1865.

W E Greenwell	cer. 6, 68 shs		
	cer. 4 and 5-100 shs ea	268	20 80
W Holt	cer. 22, 100 shs		
	cer. 29, 138 shs	238	23 80
T F Gould	18	30	3 00
A Grimm	1	25	2 50
F V Medina		25	2 50
J B Roberts	3	100	10 00
H A Harding	cer 10, 100 shs		
	cer. 11, 50 shs; cer. 12, 30 shs	180	18 00
C H S Williams	9	180	18 00
Torner Cowing	cer 13, 100 shs		
	cer. 14, 5 shs; cer. 15, 30 shs	180	18 00
J B Munn	20 21 20 ca	40	4 00
John Whalea	28	5	50
John A Cook	not issued	268	26 80
Samuel Moore	not issued	5	50
C B Harwood	not issued	80	8 00
C B Harwood	7 8 50 ea	100	10 00
H H Moore	not issued	268	26 80

And in accordance with law, and an order of the Board of Trustees, made on the 1st day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the office of said companies, No. 305 Montgomery street, San Francisco, on the 20th day of July, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, San Francisco. jy1

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

Agent Wanted.

A good Canvassing Agent can secure permanent and remunerative employment by calling at the office of the MINING AND SCIENTIFIC PRESS, 505 Clay street.

Printer Boy Wanted.

An active and reliable boy, about sixteen years of age, who wishes to learn the printing business thoroughly, in all its branches, can obtain a situation at this office upon presenting suitable recommendations.

U. S. 7-30 LOAN.

By authority of the Secretary of the Treasury, the undersigned has assumed the General Subscription Agency for the sale of United States Treasury Notes, bearing seven and three-tenths per cent. interest per annum, known as the

SEVEN-THIRTY LOAN.

These Notes are issued under date June 15th, 1865, and are payable three years from that time in currency, or are convertible, at the option of the holder, into

U. S. 5-20 Six Per Cent.

GOLD BEARING BONDS.

These Bonds are now worth a premium of nine per cent. including gold interest from November, which makes the actual profit on the 7-30 loan, at current rates, including interest, about ten per cent. per annum, besides its EXEMPTION FROM STATE AND MUNICIPAL TAXATION, WHICH ADDS FROM ONE TO THREE PER CENT. MORE, according to the rate levied on other property. The interest is payable in currency, semi-annually, by coupons attached to each note, which may be cut off and sold to any bank or banker.

The interest amounts to

One cent per day on a $50 note,
Two cents per day on a $100 note,
Ten cents per day on a $500 note,
Twenty cents per day on a $1,000 note,
One dollar per day on a $5,000 note.

Notes of all the denominations named will be promptly furnished upon receipt of subscription. This is

The only Loan in Market

now offered by the Government, and it is confidently expected that its superior advantages will make it

THE GREAT POPULAR LOAN OF THE PEOPLE.

Less than $300,000,000 of the loan authorized by the last Congress is now on the market.

This amount, at the rate at which it is being absorbed, will all be subscribed for within four months, when the notes will undoubtedly command a premium, as has uniformly been the case on closing the subscriptions to other Loans.

In order that citizens of every town and section of the country may be afforded facilities for taking the Loan, the National Bank, State Banks, and Private Bankers throughout the country have generally agreed to receive subscriptions at par. Subscribers will select their own agents, in whom they have confidence, and who only are to be responsible for the delivery of the notes for which they receive orders.

JAY COOKE.
Subscription Agent, Philadelphia.

March 25, 1865. 17v19.3m

ADDENDUM.

PER OVERLAND TELEGRAPH:

PHILADELPHIA, May 17, 1865

Second Series all sold. Commenced on Third Series. Two Hundred and Thirty Millions (230,000,000) precisely like other two Series, except dated 15th July, and Government reserves the right to pay six per cent. in Gold instead of 7-30 Currency.

JAY COOKE,
Subscription Agent, Philadelphia.

MEXICAN

TEN PER CENT.

SIX YEAR LOAN.

The undersigned, having a full Power of Attorney from Gen. GASPAR SANCHEZ OCHOA, Commissioner for the REPUBLIC OF MEXICO, as Agent for the sale of the Bonds of this

POPULAR LOAN,

These Bonds will be sold at

Fifty Cents on the Dollar, Gold Coin.

They bear date July 1st, 1865, and are now ready to be furnished in sums to suit, in denominations from $50 to $1,000.

The principal and interest are payable in United States gold coin.

Interest payable semi-annually at the PACIFIC BANK, in the city of San Francisco.

The payment and redemption of these Bonds and Coupons are secured by the transfer to the undersigned, as Trustee, of one-half of the fiscal proceeds of all the

Revenues and Duties

Derived from the Custom Houses of

MAZATLAN,
GUAYMAS,
MANZANILLO,

And all the Ports in the States of

Sinaloa, Sonora and Colima,

AND FROM THE MINES OF SAID STATES,

Which Revenues and Duties, so soon as collected, are to be deposited and held by the undersigned in the

Pacific Bank, San Francisco,

And employed exclusively for the payment of said

BONDS AND INTEREST.

General OCHOA has made an assignment to the undersigned of one-half of all the duties received at the above Custom Houses, for the payment of said Loan and Interest, and also to appoint Agents to receive the above Revenues.

☞ SUBSCRIPTION BOOKS are now open at our Office, Room No. 3, third floor, Masonic Building, No. 420 MONTGOMERY STREET, San Francisco.

SAMUEL BRANNAN,
AGENT.

San Francisco, Cal., July 1, 1865. 1v11-1m

HELMBOLD'S

FLUID EXTRACT BUCHU

For Non-Retention or Incontinence of Urine, Inflammation or Ulceration of the Bladder or Kidneys, Diseases of the Prostrate Gland, Gravel, Brick Dust Deposits, Dropsical Swellings, Organic Weakness, Debility, Female Complaints, Etc.

H

HELMBOLD'S

FLUID EXTRACT BUCHU

—AND—

Improved Rose Wash

Will radically exterminate from the system Diseases arising from Habits of Dissipation, *at little expense, little or no change of diet, no inconvenience or exposure;* completely superseding those *unpleasant and dangerous remedies, Copaiba and Mercury,* in curing these diseases.

U

USE HEMBOLD'S

FLUID EXTRACT BUCHU

In all Diseases of the Urinary Organs, whether existing in MALE OR FEMALE, *from whatever cause originating, and no matter of how long standing.* It is pleasant in its taste and odor, IMMEDIATE in action, and more strengthening than any of the preparations of *Bark or Iron.*

Those suffering from *Broken Down or Delicate Constitutions, procure the Remedy at once.*

The reader must be aware that however slight may be the attack of the above diseases, it is certain to affect his *Bodily Health, Mental Powers and Happiness.* If no treatment is submitted to, Consumption or Insanity may ensue.

All the above diseases require the aid of a diuretic.

Hembold's Extract Buchu
IS THE GREAT DIURETIC.

L

HELMBOLD'S

HIGHLY CONCENTRATED

Compound Fluid Extract Sarsaparilla,

For purifying the Blood, removing all diseases arising from excess and imprudence in life, chronic constitutional diseases arising from an impure state of the blood, and the only reliable and effectual known remedy for the cure of Scrofula, Scald Head, Salt Rheum, Pains and Swelling of the Bones, Ulcerations of the Throat and Legs, Blotches, Pimples on the Face, Tetter, Erysipelas, and all scaly eruptions of the skin, and beautifying the COMPLEXION.

M

NOT A FEW

Of the worst disorders that afflict mankind arise from the corruption that accumulates in the Blood. Of all the discoveries that have been made to purge it out, none can equal in effect HELMBOLD'S CONCENTRATED EXTRACT OF SARSAPARILLA. It cleanses and renovates the Blood, instills the vigor of health into the system, and purges out the humors which make disease. It stimulates the healthy functions of the body, and expels the disorders that grow and rankle in the Blood. Such a remedy, that could be relied on, has long been sought for, and now, for the first time, the public have one on which they can depend. Our space here does not admit of certificates to show its effects, but the trial of a single bottle will show to the sick that it has virtues surpassing anything they have ever taken.

B

Two tablespoonsful of the Extract of Sarsaparilla, added to a pint of water, is equal to the Lisbon Diet Drink, and one bottle is equal to a gallon of the Syrup of Sarsaparilla, or the decoction as usually made.

The above Extracts are prepared on purely scientific principles—in *Vacuo*—and embody the full strength of the ingredients entering into their composition. A ready and conclusive test will be a comparison of their properties with those set forth in the U. S. Dispensatory.

O

HOW TO USE THE REMEDIES.

In Diseases of the Blood, Humors on the Face, or any and every part of the body, use Extract of Sarsaparilla, applying to Pimples and all external Humors or Eruptions the Improved Rose Wash.

Use the Extract Buchu for all diseases requiring the aid of a diuretic, except those of the Urinary Organs, such as Gonorrhœa and Gleet; in these use the Extract Buchu, and inject with the Improved Rose Wash.

L

☞ THESE EXTRACTS HAVE BEEN ADMITTED TO USE IN THE UNITED STATES ARMY, and also are in very general use in all the STATE HOSPITALS AND PUBLIC INSTITUTIONS throughout the land, as well as in private practice, and are considered as invaluable remedies.

MEDICINE DELIVERED TO ANY ADDRESS.

Direct letters to—

HEMBOLD'S DRUG AND CHEMICAL WAREHOUSE,
594 Broadway, New York, next Metropolitan Hotel,

—OR TO—

HEMBOLD'S MEDICAL DEPOT,
104 South Tenth street, Assembly Buildings, Philadelphia.

D

Describe Symptoms in all Communications.

SOLD BY ALL DRUGGISTS EVERYWHERE.

Beware of Counterfeits!

ASK FOR HELMBOLD'S.

TAKE NO OTHER.

HOSTETTER, SMITH & DEAN,
Sole Agents for the Pacific Coast,
Nos. 401 and 403 Battery street, San Francisco.

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W. T. GARRATT,

City

BRASS AND BELL FOUNDER,

Cor. Market and First Sts., opposite Oriental Hotel,
SAN FRANCISCO.

Manufacturer of Brass, Zinc, and Anti-Friction or

Babbet Metal Castings;

CHURCH AND STEAMBOAT

BELLS,

TAVERN AND HAND BELLS AND GONGS,

FIRE ENGINES, FORCE AND LIFT PUMPS,

Steam, Liquor, Soda Oil, Water and Flange Cocks, and Valves of all descriptions, made and repaired. Hose and all other Joints, Spelter, Solder, and Copper Rivets, &c. Gauge Cocks, Cylinder Cocks, Oil Globes, Steam Whistles,

HYDRAULIC PIPES AND NOZZELS

For Mining purposes, Iron Steam Pipe furnished with Fittings, &c. Coupling Joints of all sizes. Particular attention paid to Distillery Work. Manufacturer of "Garratt's Patent Improved Journal Metal."

☞ Highest Market price paid for OLD BELLS, COPPER AND BRASS. 6tf

QUARTZ OPERATOR'S HAND BOOK.

A Book for Every Intelligent Prospector, Shareholder, Miner and Machinist.

ZENAS WHEELER AND P. M. RANDALL,
Authors and Publishers.

BOUND IN CLOTH—144 PAGES, DUODECIMO.

THE QUARTZ OPERATOR'S HAND BOOK is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

The work also contains an original and highly interesting discussion of the tractory and differeatly formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Belshaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, concisenese, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on page 415 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865.

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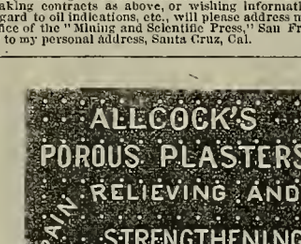

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RETURN OF DR. JACKSON AND PROF. TORREY.—The U. S. steamer Shubrick, with Dr. Jackson, Professor Torrey and Hon. Levi Parsons, has returned to this port. The distinguished scientific gentlemen who accompanied Mr. Parsons express the highest satisfaction at the result of their explorations. The Doctor has written out his report, with regard to the oil, asphaltum, etc., which is accompanied with several spirited illustrations, which we hope to have the pleasure of publishing in fall so soon as the engravings can be prepared.

Prof. Torrey enriched his portfolio with a large number of rare and beautiful botanical specimens, some of which, we believe, are new. The Professor will take a view of the botanical riches of the Sierras and the western portion of the Great Basin before he leaves for the East. It is to be hoped that his time and convenience will allow him to make his homeward trip overland. His observations and discoveries on such a trip would be of inestimable value to the country and the cause of science.

The report of Dr. Jackson, with regard to the oil deposits of Santa Barbara, will be read with much interest not only in California, but at the East and throughout Europe, where his reputation as a scientific man and a close and accurate observer, will carry conviction, and do much to eradicate many false and crude ideas which have recently gained circulation. The report is addressed to the Hon. Levi Parsons, who is doing more than any other man in California to develop the great and growing oil interest on this coast.

THE MIDSUMMER RAIN.

A midsummer rain, on or about the 1st of July, appears to be one of the regular weather features of the Pacific coast. These rains, generally very light, but often heavy, are an almost sure recurrence. This year it commenced on the 3d, on the afternoon of which day a rainbow of remarkable brilliancy was observed throughout this portion of California. During that night, and at intervals for several subsequent nights, we had a slight fall of rain in this city, and generally throughout the interior. At Strawberry Valley, and all along the elevated portion of the western flank of the Sierra, it rained quite heavily. In Virginia City, and along the eastern slope, it poured down in torrents during nearly the entire of the day previous to the Fourth. According to the *Enterprise*, "Streams of water, several inches in depth, rushed down the streets" of that city, while the water poured out of the roof spouts in torrents. At Reese River, according to the Austin *Reveille*, a heavy rain fell, almost without intermission, for six or seven consecutive days. From eight o'clock on the evening of the 6th instant, to five o'clock on the morning of the 7th, not less than two inches of water fell at Austin. The streets were flooded, and the water, in some instances, rushed with violence through stores and into basements. The floor of the billiard room of the National Exchange was covered several inches deep with water. Rain was accompanied on the evening of the 8th with brilliant flashes of lightning and frequent peals of thunder; the whole western horizon being at times "one splendid sheet of lambent flame." The storm which appeared simultaneously at Virginia City, Reese River and Humboldt, on the 3d, traveled slowly eastward and reached Salt Lake on the 5th, where it scattered its blessings promiscuously upon both saint and gentile. There was another shower at Austin on Saturday, the 15th inst. Quite a fall of rain was experienced in Grass Valley and vicinity, on the morning of Tuesday last; the weather in the meanwhile being quite cool.

A NEW GOLD EXCITEMENT IN IDAHO.—The Lewiston (Idaho) *Radiator* of July 1st, gives the particulars of a reported gold discovery, of fabulous richness, on the east side of the Bitter Root mountains, to the northward and eastward of Lewiston. These mines are supposed to be on a small creek thought to be a tributary of the Clearwater. The party who discovered it are said to have obtained from fifty cents to $1.50 per pan at the point where they first struck the creek, the gold increasing in quantity as they followed up the stream, until they could get from $8 to $10 to the pan of coarse gold. They claim to have prospected the country sufficiently to satisfy them that the diggings cover an area of fully six miles in length by half a mile in width. Large numbers were wending their way to the "new diggings," which, whether good or indifferent, will be pretty well occupied ere many days have elapsed. There are too many idle and poorly employed men, in Idaho, at this time, to render it of much use for Californians to rush thither, even though the evidence was unquestionable of the truth of all that is claimed for the new diggings.

THE SANTA BARBARA METEOR.

We have been allowed to make the following extracts from the notes of Dr. C. T. Jackson, with regard to the meteor which passed over this State on the evening of the 12th instant:

"July 12th, Wednesday. Bivouac at Mupu, on the Ojai ranch, Santa Barbara county, Cal. This evening, at 7 o'clock. 29 minutes, a magnificent meteorite fell, passing along in the western sky at an angle of 21° altitude, and towards the northeast. The time of its transit, so long as it was seen, being about eight seconds, while it left a trace of illumination and distinct sparks in its whole path, which train remained visible for the space of ten or twelve minutes. Its apparent magnitude was that of a 6 lb cannon ball.

No stars were visible at the time, so that the angle of elevation had to be observed by such an instrument as was at hand, which was a clinometer, and owing to the long continuance of its train it was easy to obtain the observation above noted. It was also observed that the portion of the train, where the sparks were most abundant, sunk more rapidly than the other portions of the illuminated train, and made quite a distinct bow with its curved arch downward. The whole train was observed to waver, as if from currents of air, and therefore it is presumed the meteorite passed through a portion of the atmosphere which is comparatively dense. Hence it could not have been very far from the earth, and must have fallen at no very great distance.

If persons who saw this meteor, in other parts of the country, noticed its angle of elevation, and will publish their observatinns, perhaps some approximation may be made to an estimate of its hight, the distance of the places of observation being the base of the triangle."

REMARKS.—We notice by paragraphs in the Grass Valley *National*, and the Nevada *Gazette*, that the same meteor was seen from a point about thirty miles east of Virginia City, by passengers on the overland stage. These two points of observation must have been about 350 miles apart, on an almost due north and south line. It would be very interesting to learn from the stage passengers referred to, as near as may be, the following particulars: 1st the point of observation; 2d, the point of compass in which the meteor was seen by them; 3d, the angle of elevation, and 4th, the apparent direction of its motion, and any further particulars which they may be able to communicate, with regard to its appearance, etc. If either of the editors of the papers mentioned would again confer with their informants, and forward such particulars as they may obtain, to our address, they will much oblige us.

A MOUNTAIN OF SALTPETRE.—Dr. Harrison, the original discoverer of the gold, silver, copper and lead mines of the Crystal Peak mining district, located near where the Henness Pass road first strikes the Sierra, in coming this way from Virginia City, has recently added to his other discoveries, a "mountain of saltpetre." This mountain is said to exist about six miles northeast of Crystal Peak, and it is claimed that there is no mistake as to either the genuineness or quantity of the article. If it occurs in such quantities as described, its location must soon render it of great commercial value.

☞ New Mining and Miscellaneous Advertisements on page 45 ☜

AMERICA AND GREAT BRITAIN.

The recent labor movement in England has developed the fact that the masses of Great Britain are and have been heartily disgusted with the course pursued by the rulers and money-eyed interest of that country, in relation to the recent struggle for the sustainment of our institutions, and the suppression of the rebellion. The words of sympathy which are now coming up from the middle and laboring classes of that country, are truly grateful to the hearts of the American people; and not even the hypocritical tears of our late enemies and traducers there, which have been shed so freely since our final triumph, can induce us to abate one jot or tittle of the value which we place upon the generous and honest sympathy of those masses. The American people have never, for a moment, doubted that the intelligent, middle classes of Great Britain, have all along felt an honest sympathy with us in our terrible struggle; nor do we now entertain the least particle of doubt that the recent and new-born manifestation of her ruling classes is simply a force put, which they cannot avoid—their own people *demand* it at their hands. With a few honourable exceptions, we owe *them* no gratitude.

It is this friendly feeling—this *entente cordiale*—with the British producing classes, which is now filling up our depleted workshops at the East with the best skilled labor in the world; and England will yet witness the most convincing proof that its unfriendly haste in according the right of belligerents to American traitors, was one of the most unfortunate steps which that proud government ever initiated. It will be the means of developing on this continent a system of protection which will effectually bar Great Britain from one of her best customers, and deplete her own realm of the very life-blood of her industrial skill. Such, and nothing less, must grow out of the high duties which must hereafter rule on importations to this country, and the consequent demand of our manufacturers for skilled laborers to bring out the productions of our own looms and our own forges. Perhaps this is one of the means which an over-ruling Providence has devised for developing this great country. But, at all events, it may be set down as one of the necessities of the future, that hereafter America and Great Britain must be and continue manufacturing and commercial competitors; and *our* unchanging policy must be to import all the British men we can, and as little of British merchandise, as will possibly answer our necessities.

THE NEVADA HISTORICAL AND SCIENTIFIC SOCIETY, located at Virginia City, has adopted articles of incorporation. The following officers have been elected: A. F. White, President; W. F. B. Lynch, Vice President; C. L. Andersou, Recording Secretary; Thomas Wells, Corresponding Secretary, and W. B. Lawlor, Treasurer.

NAPOLEON never smoked; and Goethe says that a man of true genius cannot cultivate both science and his pipe together. There may be a few illustrious exceptions; but they only prove the correctness of the rule.

Communications.

IN THIS DEPARTMENT we invite the FREE DISCUSSION of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

The "Alta California" vs. Mining.

BY DON AUGUSTIN.

"We recently noticed a project of an Eastern paper for the National banks to subscribe $50,000,000 paper money, to be sent to Nevada, for the purpose of putting in operation 500 mills, which were to earn $500,000 net silver per day. The results of the calculation may be disturbed in relation to the Nevada mines, if we may judge by example. Thus, the 'Bullion'—auspicious name! glittering cognomen! suggestive of brilliant profits and a bright future—had 2,500 feet, (feet of what?) They said there was a mine, and they raised money, and they digged and drifted. They hollowed the mountain and excavated the stockholders by assessments. In September, in January and in March, they assessed $60 per share, say $150,000. They sunk the money 600 feet, and drifted in all directions, and the more they drifted the less they found. At each assessment a greater number of shares were delinquent, until June 6th they levied $40 on the whole 2,500 shares. This was a shaft sunk into the stockholders for $100,000, but unfortunately like the shaft sunk into the mountain, it realizes nothing. The results are as follows:

Levied on shares.....	2,500 shares ...	$40....	$100,000
Delinquent shares.....	2,390 shares....	40....	95,600
Sound stock.....	110 shares.....		$ 4,400

So says the *Alta* in its financial column of the 17th July. Truly a Daniel come to judgment. After committing that, we confess that almost any quantity of similar bosh may be expected from the same source in the future, provided the immense effort of judging "by example" as above, does not cause such a number of sleepless nights and profound study as to entirely upset the reasoning faculties of the poor mortal who was guilty thereof.

The *Alta* is read in the East, and has often argued that Eastern capital could be profitably invested in mines on this side. It professes to labor for the welfare of the people here, who support it. It publishes mining advertisements, charges a round price—but seems incapable of discriminating between the profits of mining and the stock gambling transactions of Montgomery street. Whenever, by some skillful movement of stock gamblers, mining shares depreciate, the *Alta* heralds that so many millions, during the last few months, were lost at *mining*, and goes into figuring to show it, on the principle, as A. Ward would say, that "Facks and figures won't lie."

Did it ever occur to the *Alta* that if they wanted to show the world the profits made by mining by any particular company, that the correct way so to do, is to take first the amount paid in by the shareholders; then show how much it cost to develop the mine, and how much were the company's expenses aside from mining and milling. This gives a true basis from which to calculate loss or gain.

Eastern capitalists, anxious for profitable investments, on reading such bosh and not being conversant with the facts, would hesitate about investing in even the best of mining undertakings. Stupid ones would refuse entirely. Mr. Emptihed, who sold goods to miners, and in a few years retired on a million, knew when he bought for so much and sold again at a certain advance, that he had made a profit. He never could exactly comprehend the true basis of his transactions. The miner had money, paid his bills, and Mr. E. comprehended no more. He also reads, pulls his purse strings tighter, looks as wise as an owl, and never undertakes any mining adventures. Unfortunately the family of Mr. Emptihed, in its many relations by blood and marriage, is very numerous, and they all see passing events through the same spectacles.

The intelligent miner also reads it. He throws down the paper in disgust; is perplexed, thinks of swindling incorporations and all such stuff. He has seen and examined silver mines in Germany and elsewhere, knows that ores that are profitably worked in Europe are cast away as worthless in Nevada. He knows that there are many rich ledges that would yield millions on the touch of Capital. He knows that Nevada was but a few months ago one vast desert. That now it is a State with incorporated cities. He knows that the people who built those cities were mostly poor men, who brought but little with them, and he also knows that many came poverty-stricken to Nevada, and left with handsome fortunes. He knows that comparatively little foreign capital helped Nevada, and that many mines were developed by poor men, who subsisted by working their select lots of very rich ores by hand mills. He knows that the ordinary ores of silver are only profitable when worked by machinery. He wonders why foreign capital does not come and reap the harvest.

Mr. Stockoperator, however, is not so easily perplexed. He reads and wonders if the writer "did it" for any particular reason or if he has gone crazy. He soliquises as follows:

"Bullion—2,500 shares—sold at $140, assessment $40, delinquent—selling at $180 @190—carries assessment—delinquent sale, August 7th—pleoty of time to pay in, before then—all will be paid in full—all assessments have been—good claim—title may be bad—started mining on poor ground—good ground in dispute—several years at law—wins suit, recovers about 800 feet of best ground in Gold Hill—sues Alpha Co. for more—will probably win—has spent about $19 out of every $20 in legal and other expenses, and about $1 in mining—Imperial Co. own on same ledge as Bullion, just recovered—Imperial pays about $20 per month to the inch of ground—and sells for about $5,000 per foot—Bullion has similar feet—writer must be operating."

The next time the *Alta* goes to "judge by example," it would be advisable to take a company that has spent its money in mining, and not in Washoe litigation. The sum of $100,000 expended on a silver vein is seldom unprofitable; but picked at by hungry lawyers it goes but a little way in a mining suit; and moreover whenever figures are used just place them properly, in conjunction with the actual facts of the case, and they may be counted upon.

It is not intended in any manner to defend the action of the Bullion company in this article. The management seems to have a greater desire for litigation than mining, and all such doings can only prove disastrous to mining in general.

If the National banks invest their $50,000,000 in actual mining and milling as proposed, their investment will prove one of the most profitable ever undertaken on this continent; and it is to be hoped that Eastern capital may never be prevented from such investment by the flagrant stupidity of a few scribblers who cannot comprehend that the community of this coast was built up, flourishes and subsists mainly from the profits of its mines; and that if the mines were to fail to-day, that in less than a twelve month the city of San Francisco would be almost entirely depopulated.

The English Parliamentary Election.

The next general election for members of the British House of Commons is expected to take place in July. That body consists of 645 members, of whom England and Wales send from counties 159, from the Universities 4 and from the towns 333. Scotland sends 30 members from the counties and 23 from the towns. Ireland returns 64 members for counties, 39 for towns, and 2 for the University of Dublin. The canvass has been in active progress since April. Candidates are not nominated as with us, by any political committee, convention or caucus, for parties there have no outward organization, the term "party" being as vague as that of "constitution," and being a thing of ideas, not a palpable machinery. The candidates announce themselves, or are invited by prominent citizens who favor their known views on public questions, who admire their characters, or who wish to testify their regard for some service they may have done the country. Every candidate, as his name is announced, or as he accepts an invitation, "defines his position," as we say in America. Some simply declare themselves in favor of reform, or opposed to radicalism, and the like, which safe generalities may be acceptable enough to either the Liberal or Conservative parties to whom they are addressed, but convey little information to readers at this distance. A few are more explicit, and state in detail what measures they favor or oppose. The canvass is a spirited one, and engages the attention of the whole British press. Perhaps the leading question is that of Parliamentary Reform, which has been in English politics for the last 40 years what Abolition was in American politics during the same period—the one irrepressible topic that will not down. It involves an extension of the elective franchise, and the adoption of a more equable and democratic system of representation. Bright is perhaps the most liberal advocate of the Liberal side on this issue, though an illustrious convert is reported in the person of Disraeli, who is said by the telegraph to be in favor of universal suffrage; but this is no doubt a mistake.

[Written for the Mining and Scientific Press.]

Letter from Esmeralda.

EDITORS OF MINING PRESS:—A few items from our camp may not be uninteresting to the many readers of your truly valuable journal, and therefore by your permission, I will occupy a small place in its columns for that purpose. No building, and but little work, has been done since the first of last January. All of the mills have closed down since that time, with the exception of Bodie, Winters' and Union mills. These have been, and are now, running upon custom rock. During the Winter and Spring a large number of our citizens have left for Reese River, Owens river, Colorado river and Clear creek. The Empire and Golden Age Company have been at work on their mine during the past Winter and Spring. On Monday, July 3d, they commenced, in connection with the Citizens Prospecting Association, to sink their deep shaft, which is now down to the depth of 230 feet, and the joint association propose to continue the work until the shaft shall have reached the depth of at least 600 feet.

The Del Monte has been, for the last three months, and is now, working from four to six hands in their mine. They have a small number of men re-sorting their old dump piles, and refuse, or third-class quartz, from which they have selected about one hundred tons of splendid *ore* that will pay at least $50 per ton. Some of the ore that is now being taken out of the mine will pay $200. I have seen a few pieces that will work one dollar per pound.

The Antelope and Utah companies have been doing less than the Del Monte. A good deal of work is being done by individuals in taking out small lots of ore from their claims. No one has realized by this method of working less than $40 per ton, and in a majority of cases it has reached as high as $100.

BODIE DISTRICT

Has taken the lead of all other camps in this part of the State during the present year. The Empire G. & S. Mining Co. (whose office and principal place of business is in New York city,) commenced work about the first of May in their several shafts and tunnels. They have now employed about 65 or 70 men. The New Mexico shaft has now reached to the depth of 180 feet, and ore is now being mined from the second level, at a distance of 120 feet from the surface, at which point the ledge is found to be from three to five feet wide, and pays, by a working test, $225 per ton; while in custom mills only $40 to $50 is realized per ton. The Osceola shaft is down to the depth of 215 feet; first level or chamber, 100 feet from the surface. The ledge has been opened out and tested for the distance of 300 feet, and is from four to six feet wide, all pay ore, with well defined casings. The ore from this shaft, by test, works $160 per ton. There is now in sight at least 10,000 tons of splendid ore.

Westerly from the last mentioned shaft, is the Isabella. The main shaft of this mine has been sunk to the distance of 154 feet. A large amount of ore has been furnished from this mine, to certain mills, from its first level; 50 feet more will be sunk before running the second level. Easterly from the *Isabella* is situated the *Magnet*, which is the most easterly location of all of the company's claims, and a shaft is now being put down to open out the ledge. The *Orion*, below the Isabella ledge, is being also prospected. The company has some 23 other ledges, several of which are now being developed by shafts being sunk from 50 to 200 feet in depth. They all show more or less pay ore, and can be worked at any time. The first above named mine will more than supply ore sufficient to keep their new mill constantly running. At the base of the northeast slope of Bodie Bluff, the company are now erecting a large, first-class brick mill, being the most solid and compact, as well as complete in all of its complicated details, of any mill in the State of Nevada or California. It will run sixteen large stamps, eight Wheeler pans, three separators, four concentrators, and four shaking tables—one to each battery of four stamps. The foundation of the mill is built of stone, in the most solid and substantial style. The main building is 55 feet front and 80 deep, two stories high, and will be in running order about the first of August. The opening of the mine and the erection of the mill has been during the past Spring under the management of Mr. Sanchez, the company's able and energetic superintendent, to whom is due the credit for the early completion of the latter, and the opening out of the former. To the north of the Empire company is situated the San Antonio claim, upon which has been sunk a shaft to the distance of 120 feet, Mr. F. K. Becktel, the proprietor. The ledge at the above depth, is found to be five feet thick, with a pay streak of three feet. The Bunker Hill company's shaft is situated on the south east side of Bodie Bluff and Hi Peak hills. They have now reached to the depth of 180 feet, and are taking out some splendid ore from the first level.

The High Peak Tunnel is situated on the west side of the hill. It is a fine location, and in time, when further advanced into the pe will become a valuable piece of mining property. The Crescent location was made about one year ago, and beyond a doubt is one of the most valuable in the district. It is favorably situated between the High Peak and Bunker Hill ledges. The proprietors of this splendid property have made two locations or claims on the same ground, so as to cover any and all possible contingencies of a dispute or counter claim that might arise. Location No. 1 claims one surface claim of two hundred feet square to each location, claiming all the gold and silver quartz veins, and all other minerals with all their dips, spurs, angles, stringers and feeders; also all cross ledges that may be found in said piece of ground. The area of said plat of ground is 400 feet wide and 1,000 feet long. Location No. 2 is on the same ground, and claims a ledge for the distance of 2,000 feet, with all its dips, spurs, angles and variations. The company have had both claims recorded in the county clerk's office at Bridgeport; also in the mining district recorder's office, Bodie. They have sunk a shaft 50 feet near the center of the claim. The size of shaft is 5 by 4½ feet, which is timbered in the most substantial manner. A new contract is about being let to continue the shaft down to the depth of 300 feet, at which point the great mother ledge of the district will be found. The owners are E. F. Mitchell, E. Rhoads, F. K. Becktel, D. G. Frances, E. B. Dickinson, D. W. Hastings and John S. Mayhugh. The last on the list, though by no means the least, is the Homestake and Stonewall Consolidation, situated on the south west slope of High Peak close up to the Potosi claim. This claim was discovered in the month of January last, by John W. Biderman, one of the principal owners, and was consolidated with the Stonewall to prevent litigation, thereby increasing the number of feet from 1,000 to 2,000. The thickness of the ledge is from 20 to 24 inches and it increases in size as the workmen descend upon it. Its general course is north and south. A recent crushing was made, and from 39¼ tons of ore the following amount was realized: Gold, $2,338.32; silver, $147.73. Total, $2,486.05. The value per ounce was $10.76. The company paid for mining $8 per ton; for hauling to mill, $5 per ton; crushing at mill, $15; making the total cost of bullion, independent of assaying and refining, $28 per ton. The company, a few days ago, let a contract to Brown & Co. for taking out 500 tons of ore—100 tons per month until the contract is finished. A good house has been erected over the mine, so as to enable the company to work their claim during all kinds of weather. The control is held by Biderman and Gibson. Cheering accounts are daily received from Columbus, Montgomery, Masonic and Kearsarge districts.

J. M. S.

PETROLEUM BRANDY.—Mr. Eli Bowen, professor of geology, in his work on "Coal and Coal-oil, or the Geology of the Earth," says that in a lecture which he delivered five years ago he said:—"No doubt we can and will distil from coal and oils very *good brandy, excellent camphene, gin*, and old, oily, nuctions *Monongahela Whisky!* * * * Singular as it may appear, brandy is now actually distilled, on a somewhat extensive scale, from the coal-oils of Pennsylvania." During the grape-vine disease in France, the dealers raised the price of brandy, alleging the disease as a reason for it. The journalists did not see the relation between grape-vines in France and the price of brandy in America. Probably they flattered themselves that they were making funny stretches of truth; but Mr. Bowen sobers down their conceits to mere matter-of-fact. We were informed, on *near* authority, that the champagne wine drunk at the dinner given in honor of the Russian naval officers, two years ago, was made in William street, and that there was not a drop of grape juice in it. Let France boast of grapes; but we will beat her with brandy and wine made scientifically from petroleum and other native materials.—*N. Y. Artisan.*

A WATER BOTTOM.—A Cincinnatian, at the Venango, Penn., oil regions, is stated to have become short of barrels to secure the fluid. His ingenuity was set to work, and he immediately put a bottomless tank into the water and directed the stream from his flowing well into it. The lighter quality of the oil kept it above the water, and when the receptacle became filled, the enterprising miner cut loose his moorings and floated down the river to the refinery.

[Written for the Mining and Scientific Press.]

Letter from the Santa Clara Oil Region.

EDITORS PRESS:—I have been spending a few days in the hills above Lexington, and thinking that perhaps you would like the facts in regard to the oil interests of this county, I have written the following, which, if you deem it of public interest, you are at liberty to use:

A ride of two hours, along grain fields, contradicting the oft repeated assertion of "poor crops," found us at the Forest House, sixteen miles from San Jose, and one and a half above Lexington. This is the headquarters of the "oil men," of whose presence we were soon made conscious, by their oily looks and talk, and their bottles of dark liquid, which they were convincing the crowd was almost as clear as mud; though they affirmed it was "*very pure*," and though it might smoke a little, it was a *very superior article*, etc.

We soon caught the oil fever, and found ourselves "smelling round" like the others; so, after lunch, we started for a tour of inspection of the various oil lands in the vicinity. The first claim visited is being worked by Messrs. Shaw & Weldon, and is near the Santa Cruz road, about one and a half miles above the Forest House. It is at an elevation of 1000 or 1100 feet above tide water, and not far from half way up the ridge, in a narrow cañon, which widens, however, at this place, and makes room for the saw mill of the Moody Brothers. Messrs. Shaw & Weldon had no surface indications of their own, but were induced to sink a shaft by the indications upon the ground of the Santa Clara Oil Co., some 350 yards above them. Their shaft is down 124 feet; is three by four feet inside the timbers; they have passed shals, limestone and sandstone, alternately, and are now working in sandstone, which is saturated with petroleum. The first indications were found at 30 feet, where they passed a stratum smelling like a "lamplighter;" at 105 feet another, and from 115 to 124 feet, the water, after standing a little, is covered with oil. This company purposes to sink as far as practicable, their open shaft, and then to put on steam or horse power and bore a 5-inch hole. They have the boring machinery on the ground.

THE SANTA CLARA COMPANY.

The superintendent of the Santa Clara Co's. works, is G. B. McClaren. This company had fine surface indications, and commenced work with a small engine, putting in a 7-inch tubing. At the depth of fifty feet they found a strutum which yielded about three gallons per day; at 93 feet another, of the same yield; at 117 feet another, yielding a little more, and at 140 feet, one yielding 40 gallons per day. After the work had been suspended one day, the company commenced with a 7-inch pipe, but at the depth of 70 feet, they struck hard rock, and supposing they would have to put no more pipe in, they drilled a little smaller hole, and soon pierced the rock and had to put in a 6-inch pipe, and went down 119 feet, where the same thing was repeated, and they put in a 5¼-inch pipe to the depth of 136 feet. Now, at 143 feet, they find themselves obliged to put in a 4½-inch pipe. The country seems much broken by volcanic action, and they may have to go to a great depth. The experience of this company is a valuable lesson to the others.

GOULD & CO'S. CLAIMS.

Nearly one and one-half miles due north from here, Gould & Co. found indications, and have commenced boring a 4-inch well; they expect to use horse or steam power soon,

THE AURORA DE LOS GATOS COAL COMPANY,

In prospecting their claim for coal, in this same neighborhood, have also caught a "sniff at the stuff" in their shaft, which is down 180 feet. Going south from here, until the ridge is crossed, we gradually descend for two miles to the head-waters of Soquel creek, where we find

HALEY & CO.

At work, and confident of "striking it." The sand here upon the hill side is impregnated with oil, as I found the soil in the valley, some six or seven miles below, at one of my camping places. This company have an engine, and are putting in 4½-inch pipe, but have just commenced work. The country upon this slope towards the bay of Monterey, does not present so broken an appearance as it does upon this side, and I expect to hear, ere long, of "strikes."

The most of those who are developing this branch of mining here, are men from the oil regions of the East, and they seem to be quite willing to invest their money, and think they will succeed in astonishing the nations before long, and convincing the world that California is an oil-producing State, not inferior to her sister States of the Atlantic slope.

Santa Clara, July 12, 1865. E. T. B.

[Written for the Mining and Scientific Press.]

Markleeville Correspondence.

MESSRS. EDITORS:—From the midst of towering mountains, roaring streams and sighing pines, I again drop you a few lines.

There is something romantic in the thought of "living in the mountains," and I have often wondered how some persons can be contented to settle down upon some vast plain, and behold only flocks and herds, sage-brush and sand, all their days; or on some sea-shore, and spend their lifetime, with little else to be seen save the "waste of waters." To the mountaineer, who is accustomed to a variety of mountain scenery, there is scarcely any association that is more saddening to the mind than to come in close proximity with "wind and wave;" and although he may be acquainted with frequent perils and storms in the mountains, yet the howling tempest and the roaring sea afford no music to his ear. He loves not to hear the deep murmur, the requiem of the vast number whom it has entombed, and fears, lest perchance a storm may rush forth from his hiding place, at some unsuspected hour, and awaken the deep in all its "fearful power." But he ever loves to behold the huge, old, heaven-towering peaks around his own mountain home, and to reflect that the storms of centuries have spent their strength against them, but still they stand as everlasting monuments of the Almighty's power.

In the immediate vicinity of Markleeville are two noted peaks, which rise several hundred feet above the tops of their surrounding brethren. Carson peak is in the rear of the city, and although it looks to be only a few miles away, yet a person would have to travel a distance of nearly eight miles to reach its summit. On the 4th of July, 1864, a party from this place visited the top of this mountain, taking with them an Indian, provisions and blankets. They had a grand view of the surrounding country; for from its summit can be seen the greater portion of Carson valley, Carson cañon, the valleys of Faith, Hope and Charity, besides a world of mountain scenery. After feasting their eyes to their heart's content, they planted there that glorious old banner which shall continue to "wave o'er the land of the free and the home of the brave;" and then giving three hearty cheers for every thing they could think of, they pitched their tents, and lodged in the region of the clouds.

But a better view can be obtained from the summit of Mount Pisgah, which lies in full view of the city, in Great Mogul District. I had often thought that I should like to visit the top of this mountain, so as to take a view of "the promised land;" and only a few days ago I set out for that purpose, in company with a good looking *hombre*. We had a hard old tramp up the rugged sides of the mountain, climbing over precipices, tumbled rocks, and creeping through bushes, without a drop of water to cool our parched tongues, save here and there a patch of snow, into which we plunged, like the thirsty ox. But the summit once gained, I was abundantly rewarded by a magnificent prospect—a prospect surpassingly grand and impressive. I felt that I was above the rest of mankind; the world was beneath my feet, and I knew not which way to look first. I found myself entirely fascinated, charmed and spell-bound, with nothing to break the solemn silence, while there was a spiritual existence so intense—a dreamy enchantment, so inexpressibly beautiful—that I was reminded of naught but Nature and Nature's God. I stood upon one of the hoary monarchs of earth, over whose summit the storms of centuries have swept, and while nations have arisen, flourished and passed away, this summit has stood firm as the everlasting hills, and will continue to stand till time shall be no more. In this relation I found a solitude, which to be realized, must be felt. It is in such a place as this that a man can think without an effort; for thoughts crowd upon him thick and fast, there being a voice in Nature, solemn, but grand. He can retire into the depths of his own spirit, and hold converse with self, and feel that he is immortal. It was not in vain that the early Persian made the everlasting mountains of our earth his altars, and thus sanctified an unwalled temple to the worship of the Eternal Spirit.

Compared with Nature's realms of worship—the bosom of the deep, the clear, cold atmosphere, the summit of the mountains, and the glades of the forests—how utterly insignificant are all the temples of earth, reared by the hands of man! And if this beautiful world, with all its flowers and sweets, its lakes and rivers, its broad plains and fertile valleys, and its towering mountains that overlook half the world, be only the "foot-stool" of the great Creator, what must His throne be? When we are permitted, from an eminence like this, to behold the beautiful works of creation; to gaze upon the handi-work of the great Creator, and to reflect that millions of planets, of greater magnitude than our earth, are revolving through unlimited space, and all obeying the fixed laws of the Almighty, it is saddening to remember, "The fool hath said in his heart, there is no God."

It has been often said that the beauties of an ocean sunset, or a storm at sea, cannot be fully described on paper, and it is equally true that a correct description of the surroundings from such a place as this cannot be told with pen and ink. The great Carson valley is spread out like a panorama at my feet; the bed of the valley reposing at a depth of fully three thousand feet below. The large ranches, containing several hundred acres, look like mere corrals, while dwellings, barns and hay-stacks dwindle away nearly to the size of ant-hills, and numerous herds of flocks are hardly discernable. The center of the valley is entwined by the crystal waters of the Carson river, winding its serpentine course to meet the foaming surge that breaks upon the sand beach at its—tut! tut! my pen—no sentimental thoughts here—the Carson sinks under a lot of sage-brush 'way out toward Reese.

Mt. Davidson and the mountains of Washoe lie in the "regions beyond," and look to be only a few miles away, while the Ophir grade is plainly seen without the aid of a glass. The whole range of the Sierras, with their snow-capped peaks, lie to the west. The tall peak in the rear of Silver Mountain, whose snow-capped summit towers aloft, reminds one of the "frosts of many winters." The city of Markleeville looks but a rifle shot distant, and the deep gorge of the Carson's bed is readily traced for miles away towards its source. Some of the principal mines of this region are also seen from this "stand-point of silence." The stars and stripes are seen fluttering over the Good Hope works in Alpine. The pink-colored hill, on which is situated the Lord Byron and Great Republic claims, is also in full view, and so is the Morning Star claim, with its massive croppings.

On looking around for something on which to cut my name, I saw a sign-board nailed to a tree, with simply the words "Mt. Pisgah," and near by a pile of rocks, with the corner of an envelope exposed to view. I hastened to obtain items of the adventurer before me. It contained a sheet of letter paper, written with a pencil, and had the appearance of having been written and exposed to, at least, two winters, as some of the writing was almost illegible. Some sentimental individual had doubtless visited this peak in the year 1863, to take a view of the promised land, prior to his exit from the country. The document had neither signature or date, but read as follows:

"This peak shall be known as Mt. Pisgah, and as Moses was enabled to behold from Pisgah's top the land of Canaan—a land flowing with milk and honey—so we can behold from this lofty summit a land of promise, filled with gold and silver, and big with future prospects; for the time is not far distant when mines shall be opened in all these mountains, and thousands of claims shall produce an abundance of the one thing needful. Then this solitary place shall be a delight, and the wilderness shall blossom as the rose. The mountains, also, shall rejoice with the music of mills, they shall echo abundantly with the sound of the whistle, even with the sound of the steam-whistle shall the mountains awake, and the clatter of ten thousand stamps shall be music in the land. Then shall be seen the glory of Alpine, and the excellency of Mogul. Monitor and Silver King shall strengthen the feeble knees (of capitalists). Silver Mountain, also, shall say to them that are of a fearful heart, behold our mines are good; only invest thou, and you shall find silver bricks in your hats. Then shall the eyes of the blind be opened and they shall see for themselves and not another. The ears, also, of the deaf shall be unstopped, and they shall hear and believe. Then shall the poor man be lifted up, and the desponding soul shall sing for joy, because the time foretold has come, and thousands from the ends of the earth shall behold the richness of our mines. And a highway shall be opened, and it shall be called a toll-road. The strapped shall not pass over it, but it shall be for those who have the spondulix; and teamsters shall bear merchandize thereon. No jackass shall be there, nor pack-train go up thereon. They shall not be found there; but miners shall ride there, and they shall return to the Bay with joy upon their heads, and the everlasting rhino in their pockets, and the blues shall flee away."

I wondered how the adventurer got down from the mountain, and thought, perhaps, he sat down and took a slide; but then would he not desire to change his base? and I saw no place where he could make a flank movement, and thus reach level ground. As for myself, I found it quite difficult to reach the regions below, and after visiting several mines in the course of my travels, I reached my domicil at a late hour, hungry, foot-sore and tired.

PROTECTION AGAINST THE TERREDO.

An officer of the Imperial Navy of France, Lieut. Mariot, being in Cochin China, learned that the natives possess a secret for protecting wooden vessels against the depredations of the terredo, an insect which does immense damage to ships and timber on the shores of the Black Sea, the Mediterranean, the Asiatic, and other waters. The Cochin Chinese refuse to tell the secret; but Lieut. Mariot, by diligent inquiry, ascertained that it consists in the employment of a mixture of resin and oil obtained from trees in that country. He further ascertained that it is so effective as a preservative, that junks—so old that the precise year of their construction is forgotten—are, though constantly plying in waters in which the insects abound, still sound and strong. He has communicated his discovery to the French Emperor, who has manifested great interest in it; and, at his majesty's request, Lieut. Mariot is to return to China to make further inquiries, and to bring back some of the wood steeped in the mixture.

REMARKS.—It is more than likely that the "mixture" above referred to may be either the crude petroleum, which abounds in that region, or the residuum after a partial evaporation or distillation thereof. It is well known that both petroleum and bituminous coal contain a large quantity of carbolic or phenylic acid, which is death to all animal life. We are told that the terredo has been gradually disappearing from the harbor of San Francisco since the establishment of the gas works on Howard street. The cause is no doubt rightly attributed to the fluid refuse from those works which is discharged into the harbor, and which contains a large quantity of this acid. It may often be seen in still weather, upon the surface of the water, in the vicinity of the gas works, and, as the tide falls, it adheres to the piles, forming a coating, which by repeated applications, penetrates the wood sufficiently to render it extremely unpleasant, if not absolutely impossible for these pests of our harbor to pursue their accustomed work upon the piles. The extraordinary antiseptic power of this acid is well known, and largely employed to preserve railroad sleepers and other timber from decay. Probably a creosoting or kyanising process might be externally applied to piles, before being placed in the water, which would also completely prevent all trouble from the ravages of the terredo.

THE PITCH LAKE OF TRINIDAD.—This lake covers an area of ninety-nine square miles, and is of very great depth. "The bitumen is solid and cold near the shores of the lake, and gradually increases in temperature and softness toward the center, where *it is boiling*. The ascent from the lake to the sea, a distance of three-quarters of a mile, is covered with a hardened pitch, on which trees and vegetables flourish, and about Point la Braye, the masses of pitch look like black rocks among the foliage." Mr. G. P. Wall describes the lake as yielding three kinds of asphaltum: "1. Asphaltum glance, which is hard and brittle, of an intensely black, brilliant lustre, and conchoidal fracture. 2. Ordinary asphaltum, of a brownish-black color, containing from 20 to 35 per cent. of earthy admixture and a considerable proportion of water and possessing the property of plasticity, which it gradually loses on long exposure to the sun and atmosphere. 3. Asphaltic oil, occurring associated and diluted with water, but appearing, when concentrated, as a dense black fluid with a powerful bituminous odor. If collected in an open vessel, the more volatile part of this oil evaporates after a few months, leaving a solid black substance, of similar appearance and analagous properties to asphaltum glance."

A COTTON MILL, it is said, is about to be erected at North Beach, in this city. This is the second cotton mill projected in this State.

City Stock Reports---San Francisco Stock and Exchange Board.

From the "Weekly Stock Circular" of the Associated Brokers.

SAN FRANCISCO, SATURDAY MORNING, July 22d, 1865.

The money market continues to be well supplied with capital and rates are easy. Accommodations in bank are readily obtained at 1¼@1½ ℔ cent. per month, and upon the street negotiations are made at 1½@2½ ℔ cent. per month, according to circumstances. At the present moment we have the prospect of an easy money market throughout the Summer and Fall.

Receipts of treasure from the interior, since Saturday last, amounted to $950,000, making an aggregate of $3,150,000 thus far the current month.

Sales of gold bars were made for the Panama steamer at 820@830, and silver ruled at about par for round parcels. The total coinage of the U. S. Branch Mint, in this city, during the past fiscal year (ending June 30th) amounted to $19,000,000; of which sum $18,500,000 was in double eagles. The total coinage of gold and silver at that establishment during the previous fiscal year, reached an aggregate of $19,400,000.

Legal Tender notes have been dull and inactive this week and small sales were made at 73⅝@73⅜, closing at 73½ bid, 73¾ asked. Our latest telegraphic advices from the East quote gold at about 143½ on the 18th inst.

No important changes have taken place in the share market, and some leading stocks are tolerably well maintained. A number of shares of less intrinsic value have revived a little, and some transactions were made at a slight improvement over former quotations. There is, however, not much disposition to invest in these fancies as yet.

Gould & Curry has met with no sales, but is freely held at about $1,760. The drift now 300 feet distant from the D street shaft, at a depth of 200 feet below the lower tunnel, has penetrated what is supposed to be the clay seam of the ledge, but no tangible evidence of the existence of a pay vein at this point has been found thus far. The deliveries of ore from the upper levels are averaging about 90 tons per day, and will amount to some 2,800 tons for the current month. Receipts of bullion from this mine, last month, amounted to $168,000, but a larger yield is anticipated for the month of July. The dividend is likely to be the same, however—$50 per foot.

Alpha continues apathetic, but strongly held. Small sales were made at $1,460, and$1,500, closing at $1,470 bid. Some good ore is now being taken from the lower and upper levels of this mine.

Savage is in less favor, declining from $1,415 to $1,340, then selling at $1,310, and closing at $1,325. The product of the mine is now averaging about 65 tons per day, but the ore is of poor quality. From the annual report of the officers of this company, made to the stockholders yesterday, we glean the following items: During the past year, ending July 1st, the total product of the mine amounted to 51,680 tons, 1,941 tons of which was first class ore, 49,303 tons second class, and 199 tons third class. The total yield of this ore in bullion (exclusive of some small shipments to Europe) amounted in the aggregate to $2,256,285. The reduction of all the ore has cost $1,115,000, and $520,000 were disbursed in dividends. The expense of reducing first class ore was $47.46, and second class $20.76—an average of $21.76 per ton. The yield of first class ore amounted to $119.92; second class $41, and third class $14.94—an average product of $43.87 per ton. The cost of mining, and other operations incident thereto, have averaged $10.22 per ton for all the ore raised to the surface.

Yellow Jacket was dealt in to the extent of 163 feet, advancing from $1,090 to $1,200, receding to $1,090 again, then selling at $1,015, and closing at $1,040. The company are now hoisting about 100 tons of ore per day, the quality of which is said to show some improvement.

Crown Point has been in better favor, and 103 feet were sold, advancing from $810 to $920, receding to $910, and changing hands yesterday at $900@970. A new deposit of good ore has been found in sinking from the 230-feet level. A late crushing of ore yielded some $58 per ton.

Belcher is in fair request and well maintained. Some 50 feet were sold, receding from $840 to $810, rallying to $850 and closing at $825 @830. There is no new development in this mine. Hale & Norcross fell from $582½ to $565, and sold yesterday at $560@565. Drifting has re-commenced toward the east.

Ophir rose from $480 to $540, then sold at $492@450, some 37 feet in all changing hands. The second trial of the Burning Moscow *vs.* this company, has resulted, as before, in a disagreement of the jury. The yield of the Ophir mine for the first half of this month amounted to 512 tons of ore, averaging $50@75 per ton. Receipts of bullion thus far the current month have been about $37,000. Drifting continues east and south from the Mexican shaft.

Chollar dropped from $400 to $380, advanced to $412, and sold yesterday at $415@425, some 145 feet changing hands. Potosi fell from $390 to $375, rose to $405, and closed at $400@,412½ within which range 271 feet were sold. The joint product of these two mines now amounts to some 40 tons per day. The new cross-cut from the fifth station of the Potosi penetrated a small vein of good ore last week, and a drift will now be continued to the fifth level of the North Chollar mine. There is no change in any other portion of either mine.

Uncle Sam has been active, and nearly 500 shares were dealt in, opening at $335, declining to $295, rallying to $325, dropping to $302 and selling yesterday at $295@290. Overman fell to $292½, rose to $310, receded to $300, and closed at about $290 asked. A new body of good ore has been disclosed in the east cross-cut of the third level near the north line of this mine. The company are now hoisting considerable ore to the surface, and propose to commence crushing at once.

Imperial receded from $237 to $233, rose to $240, declined to $218, then sold at $210, seller 30, and closed yesterday at $229@227. Active operations in this mine have been suspended for a few days in order to perfect some improvements to the main shaft; meanwhile a sufficient reserve of ore gives full employment to both mills. The second "clean up" this month is said to have been favorable, realizing some $20,000, and the entire receipts of bullion for July, from the company's two mills, are likely to exceed $70,000, exclusive of some $40,000 worth of first-class ore now being treated at Dall's mill. The ordinary expenses for the current month will amount to about $35.000.

Bullion has been dull and inactive at $190@182½, closing at $185. North American fell from $40 to $37½, rose to $51, buyer 30, receded to $42, and closed at $41. Burning Moscow fell from $31 to $26, rallied to $28½, fell to $25, and sold yesterday at $29. Sierra Nevada rose to $18, fell to $14, and closed at $15 asked. Lady Bryan rose from $6¼ to $8½, fell to $6¼, and sold at the close at $6½. Daney was sold at $13; De Soto at $8@10; Baltic at $17@13, and Golden Rule at $7½@8.

The aggregate sales of Stocks and Legal Tender notes since Saturday last, amounted to $938,134.

FEDERAL, STATE, CITY AND COUNTY BONDS.

NAME.	Bid.	Asked.	Amount Outstanding.	Interest, When Payable.	Interest, Where Payable.	Principal, When due.	Remarks.
United States Notes, 7 3-10	74	74½		Feb. Aug. April and Oct	U. S. Treasury		
Legal Tender Notes	73½	73¾					
California State Bonds, 7s, 1857	80	82	3,620,500			1867	
San Francisco Bonds, 10s, 1851		105	1,352,600	May and November	San Francisco	1871	
San Francisco Fire Bonds, 10s, 1854		105	170,500	January and July	New York	1866	
San Francisco City Bonds, 6s, 1855	65	—	529,000	January an July	New York	18-5	
San Francisco City and County Bonds, 6s, 1858	63	65	1,133,500	January and July	San Francisco	1888	
San Francisco School Bonds, 7s, 1854			42,000	May and November	New York	1866	
San Francisco School Bonds, 10s, 1860		100	59,500	January and July	New York	1870	
San Francisco School Bonds, 10s, 1861		100	20,000	January and July	New York	1870	
San Francisco City and County Bonds, 7s, 1862	73	75	300 000		San Francisco		Subscribed to S. F. & S. J. R. R.
Sacramento City Bonds		80	1,416,000				
Sacramento County Bonds, 6s	45	50	440,000				
Marysville Bonds, 10s	75	77					
Stockton City Bonds	72	80	220,000		New York		
Yuba County Bonds, 10s	80	90	200,000				
Santa Clara County Bonds, 7s	65	75	200,000				
Butte County Bonds, 10s, 1860	69	80	200,000				
San Mateo County Bonds 7s	60	70	100,000	January and July	Oroville	1880	Issued to Northern California R. R.

SAN FRANCISCO AND MISCELLANEOUS STOCKS.

NAME	Bid.	Asked.	No. of Shares.	Incorporate Val. ℔ share.	Amount Paid per share.	Dividends.	Remarks.
California Steam Navigation Co	75	76	2,500	$1,000	Full Paid	2 ℔ ct. ℔ month on capital stock.	Last Dividend July 15.
State Telegraph Co	30	34	25,000	100	Full Paid	$1 ℔ share quarterly	Last Dividend July 12.
San Francisco Gas Co	90	93	20,000	100	Full Paid	1 ℔ ct. ℔ month on capital stock.	Last Dividend July 1.
Sacramento Gas Co		63	1,000	500	Full Paid	12 ℔ ct. ℔ annum on capital stock	Last Dividend July 1.
Spring Valley Water Co	50½	51	60,000	100		½ ℔ ct. ℔ month on capital stock.	Last Dividend July 10.
Virginia and Gold Hill Water Co		90	2,000	250		$5.50 ℔ share ℔ month	Last Dividend June 5.
Sacramento Valley Railroad Co	—	—	8,000	100	$100		
Omnibus Railroad Co	—	—	10,000	100	41 ℔ cent,—$41	½ ℔ ct. ℔ month on capital stock	Last Dividend March 1.
Central Railroad Co			5,000	100		Assessment of $3 levied July 12.	
North Beach and Mission Railroad Co	37	38	10,000	100	38 ℔ cent,—$38	½ ℔ cent ℔ mnth on Capital Stock	Last Dividend July 1.
San Francisco and San Jose Railroad Co			20,000	100	Full Paid		
California Building, Loan and Savings Society			2,500	100	Full Paid	1½ ℔ cent ℔ month	Dividend payable May and Nov:
South San Francisco Homestead and R. R. Ass'n	—	—	500	600			
Fireman's Fund Insurance Co	—	105	50,000	10			
Pacific Insurance Co	142	145	7,500	100	Full Paid	$6 ℔ share paid quartly	Assets July 1, $984,619, Div. July 5
San Francisco Insurance Co	—		300	500	Full Paid	Paid since Jan. $34,000	Assets July 1, $258,725, Div July 1.
Merchants' Mutual Marine Insurance Co			100	5,000	10 ℔ cent		Cash Capital $183,380
California Insurance Co			200	1,000	50 ℔ cent		Assets $243,047—Surplus $21,583
Bank of Pacific Accumulation Loan Company			50,000	100		1½ ℔ cent ℔ mo. on am't paid in	
Pittsburg Coal Mining Co. (Mt. Diablo)			200	500			
Black Diamond Coal Mining Co. (Mt. Diablo)	—		5 000	100			
Eureka Coal Mining Co			4.000	25			
Bellingham Bay Coal Co			10,000	$100	Full Paid	½ ℔ ct. ℔ month on capital stock	45th dividend paid.

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, July 15.

25 shs Uncle Sam at 335 per foot.
1 sh Uncle Sam at 325 per foot.
8 shs Uncle Sam at 320 per foot.
2½ shs Uncle Sam at 315 per foot.
5 shs Uncle Sam at 317½ per foot.
3 shs Uncle Sam at 319 per foot.
1 sh Uncle Sam at 318 per foot, cash.
10 shs Uncle Sam at 330 per foot, b 30.
9 shs Uncle Sam at 312½ per foot.
5 shs Uncle Sam at 312¾ per foot, cash.
6 shs Uncle Sam at 310 per foot.
23 shs Overman at 300 per foot.
15 shs Overman at 305 per foot.
3 shs Belcher at 840 per foot.
3 shs Belcher at 825 per foot.
3 shs Belcher at 825 per foot, b 5.
3 shs Belcher at 815 per foot.
3 shs Belcher at 810 per foot.
8 shs Crown Point at 910 per foot
40 shs Chollar at 410 per foot.
40 shs Chollar at 400 per foot.
20 shs Chollar at 380 per foot, s 30.
3 shs Potosi at 390 per foot, s 3.
50 shs Potosi at 390 per foot.
2 shs Potosi at 385 per foot.
5 shs Potosi at 380 per foot.
16 shs Hale & Norcross at 580 per foot.
2 shs Hale & Norcross at 582½ per foot.
2 shs Yellow Jacket at 1090 per foot.
20 shs Imperial at 253 per share.
90 shs Imperial at 237½ per share.
5 shs Imperial at 237 per share, cash.
20 shs Imperial at 239 per share.
10 shs De Soto at 8 per share.
10 shs Wide West at 8 per share.
15 shs Wide West at 7 per share.
5 shs Baltic at 17½ per share.
10 shs Baltic at 14 per share.
20 shs Baltic at 13 per share.
3 shs Bullion at 190 per share.
35 shs Lady Bryan at 6¼ per share.
102 shs N. American, Ex Sam, at 40 per sh.
10 shs N. American, Ex Sam, at 39 per sh.
5 shs North American, Ex Sam, 39½ pr sh
20 shs Burning Moscow at 31 per share.
25 shs Burning Moscow at 30 per share.
20 shs Burning Moscow at 29¾ per share.
10 shs Burning Moscow at 29 per share.
10 shs Burning Moscow at 28¾ per share.
10 shs Caledonia Tunnel at 6 per share.
20 shs Caledonia Tunnel at 4½ per share.
10 shs Golden Rule at 7¼ per shnre.
$20,000 Legal Tender Notes at 73⅞ per cent.
$10,000 Legal Tender Notes at 73¾ p ct, s 30.
Amount of salea.....$136,905 00

Monday, July 17.

40 shs Uncle Sam at 305 per foot.
73 shs Uncle Sam at 300 per foot.
1 sh Uncle Sam at 295 per foot, s 3.
17 shs Uncle Sam at 300 per foot, r w.
9 shs Belcher at 820 per foot.
6 shs Belcher at 825 per foot.
9 shs Belcher at 835 per foot.
9 shs Belcher at 830 per foot.
1 sh Yellow Jacket at 1090 per foot.
5 shs Yellow Jacket at 1100 per foot.
1 sh Yellow Jacket at 1110 per foot.
20 shs Chollar at 395 per foot.
4 shs Chollar at 390 per foot.
8 shs Chollar at 385 per foot.
4 shs Chollar at 383¾ per foot.
36 shs Ophir at 485 per foot.
1 sh Savage at 1375 per foot, s 30.
1sh Savage at 1415 per foot.
1 sh Savage at 1410 per foot.
5 shs Confidence at 130 per share, s 3.
2 shs Overman at 392½ per foot, r w.
2 shs Overman at 292½ per foot.
24 shs Potosi at 375 per foot.
10 shs Potosi at 80 per foot.
10 shs Golden Rule at 8 per share.
10 shs Imperial at 235 per share.
5 shs Imperial at 235½ per share.
5 shs Imperial at 234 per share.
45 shs Imperial at 233 per share.
10 shs Imperial at 230 per share, s 30.
110 shs Lady Bryan at 6¾ per share.
45 shs Lady Bryan at 6¾ per share.
40 shs Lady Bryan at 7 per share.
21 shs De Soto at 7¾ per share.
15 shs N. American, Ex Sam, at 37½, s 3.
20 shs N. American, Ex Sam, at 37¾ per sh.
23 shs N. American, Ex Sam, at 39 per sh.
70 shs Burning Moscow at 30 per share.
5 shs Spring Valley W W Co at 51 per cent.
5 shs Cal. Steam Nav. Co. at 75 per cent.
2 shs Cal. Steam Nav. Co. at 75 p ct, r w.
$ 4,500 Legal Tender Notes at 73¾ per cent.

AFTERNOON SESSION.

1 sh Yellow Jacket at 1150 per foot.
1 sh Yellow Jacket at 1175 per foot, r w.
3 shs Yellow Jacket at 1185 per foot.
10 shs Potosi at 390 per foot.
5 shs Uncle Sam at 300 per foot.
5 shs Uncle Sam at 295 per foot, s 3.
2 shs Uncle Sam at 305 per foot.
5 shs Uncle Sam at 310 per foot, s 3.
3 shs Belcher at 820 per foot.
12 shs Ophir at 490 per foot.
16 shs Crown Point at 810 per foot,
5 shs N. American, Ex Sam, at 39 per sh.
80 shs N. American, Ex Sam, at 38 per sh.
10 shs N. American, Ex Sam, at 37¼ per sh.
5 shs Imperial at 238 per share.
87 shs Imperial at 240 per share.
5 shs Nevada, J. G. at 25 per share.
40 shs Lady Bryan at 7½ per share.
55 shs Lady Bryan at 8 per share.
10 shs Lady Bryan at 8¼ per share.
10 shs Lady Bryan at 8 per sharo, s 3.
10 shs Burning Moscow at 29½ per share.
20 shs Burning Moscow at 30 per share, r w
25 shs Burning Moscow at 30 per share.
Amount of sales.....$133,150 00

Tuesday, July 18.

12 shs Ophir at 485 per foot.
48 shs Chollar at 440 per foot.
12 shs Chollar at 400 per foot s 3.
8 shs Chollar at 400 per foot, 15 ds.
2 shs Potosi at 390 per foot.
14 shs Potosi at 390 per foot, r w.
6 shs Potosi at 390 per foot, b 3.
1 sh Savage at 1350 per foot, s 30.

2 shs Uncle Sam at 310 per foot.
17 shs Uncle Sam at 315 per foot.
3 shs Uncle Sam at 316 per foot.
4 shs Uncle Sam at 315 per foot, b 5.
3 shs Uncle Sam at 312 per foot.
2 shs Uncle Sam at 312½ pe foot.
4 shs Yellow Jacket at 1200 per foot, s 3.
1 sh Yellow Jacket at 1195 per foot.
1 sh Yellow Jacket at 1185 per foot.
2 shs Overman at 330 per foot.
10 shs Overman at 325 per foot.
24 shs Hale & Norcross at 575 per foot.
21 shs Belcher at 82 per foot.
3 shs Belcher at 817½ per foot.
8 shs Crown Point at 870 per share.
30 shs Imperial at 240 per share.
62 shs Imperial at 238 per share.
5 shs Imperial at 238½ per share.
68 shs Lady Bryan at 8½ per share.
20 shs Lady Bryan at 8¾ per share.
25 shs Lady Bryan at 7¾ per share.
40 shs Lady Bryan at 8 per share.
5 shs Bullion at 182½ per share.
3 shs Bullion at 185 per share.
5 shs Bullion at 190 per share.
5 shs Nevada J. G. at 28 per share.
138 shs N. American, Ex Sam, at 41 per sh.
35 shs Burning Moscow at 27½ per share.

AFTERNOON SESSION.

20 shs Chollar at 400 per foot.
20 shs Chollar at 405 per foot, s 3.
8 shs Potosi at 398 per foot.
4 shs Potosi at 400 per foot.
10 shs Potosi at 410 per foot, b 3.
4 shs Potosi at 398 per foot.
1 sh Yellow Jacket at 1150 per foot.
1 sh Yellow Jacket at 1135 per foot.
1 sh Yellow Jacket at 1120 per foot.
2 shs Yellow Jacket at 1105 per foot.
5 shs Yellow Jacket at 1105 per foot, s 3.
2 shs Yellow Jacket at 1110 per foot, s 3.
1 sh Yellow Jacket at 1115 per foot.
1 sh Yellow Jacket at 1125 per foot.
1 sh Yellow Jacket at 1120 per foot, s 3.
48 shs Ophir at 490 per foot.
12 shs Crown Point at 830 per foot.
8 shs Crown Point at 825 per foot.
4 shs Hale & Norcross at 582½ per foot.
26 shs Uncle Sam at 316 per foot
10 shs Uncle Sam at 316 per share, b 3.
8 shs Uncle Sam at 315 per foot.
6 shs Alpha, G H, at 1460 per foot.
10 shs N. American, Ex Sam, at 41 per sh.
81 shs N. American, Ex Sam, at 43 per sh.
20 shs N. American, Ex Sam, at 41 per sh.
15 shs N. American, Ex Sam, at 133½ per sh.
10 shs Sierra Nevada at 16½ per share.
10 shs Sierra Nevada at 16 per share.
30 shs Sierra Nevada at 17 per share.
5 shs Imperial at 236 per share
22 shs Imperial at 235 per share.
20 shs Burning Moscow at 28 per share.
200 shs Burning Moscow at 26 per share, s 15.
10 shs Burning Moscow at 28½ per share.
10 shs Lady Bryan at 7¼ per share.
Amount of sales.....$152,665 00

Wednesday, July 19.

21 shs Uncle Sam at 322 per foot
9 shs Uncle Sam at 320 per foot.
20 shs Uncle Sam at 323 per foot.
8 shs Uncle Sam at 322½ per foot.
2 shs Uncle Sam at 319 per foot
6 shs Uncle Sam at 316 per foot.
1 sh Uncle Sam at 318 per foot.
10 shs Potosi at 401 per foot.
2 shs Potosi at 395 per foot, r w.
3 shs Potosi at 395 per share.
2 shs Potosi at 390 per foot.
40 shs Chollar at 407½ per foot.
4 shs Crown Point at 827 per foot.
32 shs Crown Point at 830 per foot.
12 shs Ophir at 495 per foot.
24 shs Ophir at 497½ per foot.
12 shs Yellow Jacket at 1100 per foot.
5 shs Yellow Jacket at 1095 per foot
40 shs Dancy at 13 per share
4 shs Hale & Norcross at 600 per foot, b 30.
2 shs Hale & Norcross at 580 per foot, r w.
4 shs Hale & Norcross at 580 per foot.
2 shs Hale & Norcross at 570 per foot, s 3.
6 shs Hale & Norcross at 570 per foot.
2 shs Hale & Norcross at 565 per foot.
2 shs Hale & Norcross at 575 per foot.
1 sh Savage at 1340 per foot.
1 sh Savage at 1310 per foot, s 10.
5 shs Overman at 310 per foot.
3 shs Belcher at 800 per foot
3 shs Belcher at 825 per foot, b 30.
9 shs Belcher at 830 per foot.
10 shs De Soto at 7¼ per share.
5 shs Imperial at 237 per share.
10 shs Imperial at 236 per share.
1 sh Imperial at 235 per share.
20 shs Sierra Nevada at 15 per share.
24 shs Burning Moscow at 30 per share, b 30.
19 shs Burning Moscow at 28 per share.
10 shs Burning Moscow at 28½ per share.
15 shs Burning Moscow at 27½ per share.
20 shs Burning Moscow at 27 per share.

AFTERNOON SESSION.

5 shs Wide West at 8 per share.
10 shs N. American, Ex Sam, at 45 per sh.
12 shs N. American, Ex Sam, at 46 per sh.
12 shs N. American, Ex Sam, at 47 per sh.
10 shs N. American, Ex Sam, at 47½ per sh.
50 shs N. American, Ex Sam, at 48 per sh.
10 shs N. American, Ex Sam, at 49, b 5.
3 shs Cal. Steam Nav. Co. at 75 per cent.

AFTERNOON SESSION.

4 shs Crown Point at 850 per foot.
8 shs Crown Point at 835 per foot.
4 shs Crown Point at 880 per foot.
4 shs Crown Point at 895 per foot.
4 shs Crown Point at 885 per foot, s 3.
4 shs Crown Point at 895 per foot.
36 shs Crown Point at 900 per foot.
16 shs Crown Point at 910 per foot.
4 shs Crown Point at 910 per foot, s 3.
2 shs Uncle Sam at 325 per foot.
34 shs Potosi at 400 per foot.
10 shs Potosi at 395 per foot.
4 shs Potosi at 395 per foot, s 3.
36 shs Potosi at 397½ per foot.
26 shs Potosi at 3 6 per foot.
24 shs Ophir at 500 per foot.
3 shs Belcher at 820 per foot.
8 shs Chollar at 405 per foot.
30 shs Sierra Nevada at 14 per share.
15 shs Imperial at 235 per share.
5 shs Imperial at 234 per share.
12 shs Imperial at 233 per share.
23 shs N. American, Ex Sam, at 48 per sh.
129 shs N. American, Ex Sam, at 51 per sh.
40 shs N. American, Ex Sam, at 51, b 30.
15 shs N. American, Ex Sam, at 49 per sh.
5 shs Bullion at 180 per share, r w.
10 shs Bullion at 190 per share.
20 shs Lady Bryan at 6½ per share.
2 shs Burning Moscow at 28 per share.
25 shs Burning Moscow at 29 per share.
10 shs Burning Moscow at 28 per sh, s 10
60 shs Spring Valley Water Co at 50½ per cent.
Amount of sales.....$143,880 00

Thursday, July 20.

14 shs Potosi at 400 per foot.
6 shs Potosi at 395 per foot.
20 shs Chollar at 405 per foot, r w.
28 shs Chollar at 407½ per foot.
64 shs Chollar at 412½ per foot, b 15.
33 shs Belcher at 840 per foot.
3 shs Belcher at 850 per foot.
41 shs Crown Point at 915 per foot.
12 shs Crown Point at 920 per foot.
12 shs Crown Point at 916 per foot.
24 shs Crown Point at 910 per foot.
18 shs Yellow Jacket at 1100 per foot, s 3.
14 shs Yellow Jacket at 1100 per foot.
1 sh Uncle Sam at 320 per foot.
16 shs Uncle Sam at 310 per foot.
10 shs Uncle Sam at 305 per foot.
5 shs Uncle Sam at 305 per foot, b 5.
16 shs Alpha at 1500 per foot.
6 shs Overman at 330 per foot, b 15.
5 shs Overman at 325 per foot, b 15.
35 shs Overman at 315 per foot.
10 shs Overman at 305 per foot.
24 shs Ophir at 5 0 per foot.
24 shs Ophir at 525 per foot.
84 shs Ophir at 527½ per foot.
12 shs Ophir at 530 per foot.
4 shs Gould & Curry at 1730 per foot, s 10.
5 shs Imperial at 230 per share.
55 shs Imperial at 231 per share, r w.
5 shs Imperial at 231 per share, s 3.
5 shs Imperial at 230 per share, r w.
5 shs Imperial at 227½ per share.
5 shs Imperial at 228 per share.
3 shs Imperial at 225 per share.
5 shs Imperial at 229 per share.
10 shs Imperial at 224 per share.
20 shs Imperial at 222 per share.
25 shs Imperial at 223 per share.

WASHOE DISTRICT.

Name of Company.	No. of feet in Mine.	Shares per foot.	Total No. of Shares.	Incorporate Value.	B I D Per foot.	A S K E D Per foot.	Last Mon'thly divid'd P ft.	Recent Assessments Per foot	Total Ass't prft
Alpha	278	4	1,200	$1,000 00	$1,450 00	$1,500 00		March 29, $100	$300 00
Bacon M. & M. Co	35	2	80	800 00	—	250 00		$10 per sh	
Baltimore American	2,600	1	2,600	500 00	22 00	25 00		May 4, $5	24 75
Baltic	1,800	1	1,800	200 00	12 00	13 50			45 00
Best & Belcher	224	4	896	500 00	—	200 00		Sep 21, $30; Dec. 23	580 00
Burning Moscow	4,100	1	4,100	500 00	29 00	30 00		May 18, $5; July 6, $10.	86 24
Burnside	2,800	1	2,800	500 00	5 00	6 00		Feb 1, 50c ; May 5, $1.	11 50
Belcher	1,040	3	3,120	1,000 00	825 00	830 00		$51	
Buckeye	3,000		2,800	100 00	—	7 50		Dec 18, 2.50 ; April 3, $5.	30 70
Bullion, G. H	2,500	1	2,500	200 00	180 00	185 00		Mar 11, $30; June 6, $40.	
California	300	12	3,600	300 00	—	—			
Central	150	12	1,800	300 00	—	300 00			
Caledonia Tunnel	6,000	1	6,000	400 00	—	9 00		Dec 24, $4, Mar 11, $5	22 50
Crown Point	600	4	2,400	1,000 00	950 00	975 00			190 00
Confidence	130	12	1,560	500 00	140 00 pr sh	145 00 pr sh		$100	
Chollar	1,400	4	5,600	400 00	425 00	430 00		$40	May 8, $50 ; June 28, $60. 420 00
Dancy	2,000	4	8,000	50 00	—	16 00		Nov 7, $8 ; Mar 21, $10.	76 00
Desert	2,200	1	2,200	100 00	—	—			8 00
El Dorado	1,000	1	1,000	500 00	—	—			27 00
Empire M. & M. Co.	75	10	1,500	833 00	400 00 pr sh	480 00 pr sh		$320	
Gould & Curry	1,200	4	4,800	500 00	1,730 00	1,160 00		$60	
Grass Valley	4,200	1	4,200	500 00	—	—			
Hale & Norcross	400	2	800	500 00	560 00	565 00		April 5, $50 ; May 19, $50	675 00
Imperial	184		4,000	600 00	227 00 pr sh	238 00 pr sh		$10 per sh	270 00
Iowa	1,200	1	1,200	1,000 00	—	12 00			27 00
Lady Bryan	5,000	1	5,000	100 00	6 50	7 00		Nov. 1, $5 ; April 0, $2.	23 25
Lucerne	1,800	1	1,800	500 00	—	—			35 00
Minerva	890	4	3,600	500 00	135 00	150 00		May 3, $100; Jun 28, $100	
Michigan	1,500	1	1,500	100 00	—	15 00			
Nevada, J. G	2,100	1	2,100	500 00	20. 00	22 00		Oct 28, $10; Dec. 19, $15.	57 00
North Bowers	2,000	1	2,000	250 00	—	10 00		Aug 6, $12½; Oct 18, $12½	140 00
North American	4,100	1	4,100	500 00	—	31 00		Sept 2 $2 ; Dec. 7, $2.	
North Ophir	1,500	1	1,600	500 00	—	—			
Norton	1,000	1	1,600	50 00	—	8 00			11 50
Ophir	1,400	12	16,800	500 00	490 00	500 00			
Overman	1,200	1	1,200	500 00	800 00	805 00		Nov. 19, $50; June 29, 50.	
Potosi	1,400	2	2,800	500 00	400 00	405 00		May 8, $50 ; June 27, $50	162 00
Porter	600	1	600	500 00	—	30 00			10 00
Pride of the West	1,400	1	1,400	100 00	—	5 00		Oct, Nov, Dec 16, $9.	9 00
Savage	800	1	800	2,000 00	1,325 00	1,340 00	$75		135 00
Sacramento & Meredith	3,600	4	14,400	100 00	—	12 00		June 20, 50c	
Sides	500	2	1,000	500 00	50 00	80 00		Feb 7, $20; May 12, $20.	
Sierra Nevada	3,000	1	3,000	500 00	12 00	15 00		Feb 4, $7½	103 50
Spanish No. 2	1,600	1	1,500	500 00	—	10 00			
Uncle Sam	1,200	1	2,000	200 00	299 00	300 00		Dec 20 $60 ; June 29, $50.	278 00
Whitman	1,800	1	1,800	1,000 00	—	—		Mar 25, $10; Jun 18, $7½	27 50
White & Murphy	210	4	840	150 00	—	60 00		Oct 6, $18 ; Dec. 31, $6.	231 00
Yellow Jacket	1,200	1	1,200	1,000 00	1,035 00	1,045 00	$100	July 21, $30; Aug 4, $110.	250

ESMERALDA DISTRICT.

Antelope	1,200	1	1,200	500 00	8 00	20 00			152 50
Bamboo	500	1	600	500 00	—	—		Sept 18, $5; June 20, $2.	21 50
Esmeralda	1,600	1	1,600	1,000 00	—	—			12 25
Falls of the Clyde	6,000	1	6,000	100 00	—	—		Nov 20, 50c.	2 72
Golden Age and Empire	2,600	1	2,600	250 00	—	10 00	$5		
Nevada	600	2	1,200	250 00	—	—			
Real del Monte	4,400	1	4,400	400 00	8 00	12 00			44 50
Silver Hill	3,000	1	3,000	500 00	2 00	3 00			8 25
Ural	400	1	400	500 00	—	—		Nov 18, $20.	
Utah	1,600	1	1,600	250 00	4 00	10 00			19 00
Wide West	2,600	1	2,500	500 00	—	—		Mar. 8, $5; May 22, $5.	105 00

COSO DISTRICT.

Coso	26,000		3,500	500 00	—	—			
Josephine	9,600	2	4,800	250 00	—	—		Mar 2. $1	14 00
San Carlos			2,600	100 00	—	—			20 55
Willow Springs	2,700	1	2,700	100 00	—	—			7 50

HUMBOLDT DISTRICT.

De Soto	1,980	1	1,980	100 00	10 00	10 00		Dec. 12, 2½ ; June 17, 2½	26 85
Sheba	1,800	2	3,500	500 00	13 00	13 00		Mar 14, $10 ; May 8, $10.	112 35

REESE RIVER DISTRICT.

Amador	11,200		1,400	1,000 00	—	—		Feb 28, $5	26 50
Coral	1,000	1	1,400	500 00	—	—			8 40
Florida	800	1	800	200 00	—	—			
Oregon	800	2	1,600	300 00	—	20 00			1 00
Union No. 2	1,000	1	1,000	500 00	—	—			2 50
Whitlatch	600	2	1,200	1,000 00	—	—		Dec 29, $10; Apr 29, $10.	56 00
Willow	2,800		1,400	200 00	—	—			
Yankee Blade	1,400	1	1,400	500 00	—	—			
North Star	1,000	1	1,000	500 00	—	60 00		May 1, $5	5 50
Gozr. Seymour	1,000	1	1,000	500 00	—	—			1 50
Diana	1,200	1	1,200	500 00	—	—			1 50
Blue Ledge	1,600	1	1,000	1,200 00	—	—			2 00
Joe Lane	1,000	1	1,000	500 00	—	—			1 50
Honest Miner	1,400	1	1,400	1,000 00	—	—			2 00

MEXICO.

Dios Padre	2,200	1	1,920	500 00	—	40 00		Dec. 18, $8; May 20, $1½	50 00
Mina Pricta	2,200	1	2,200	1,000 00	—	—		Dec. 20, $10.	160 00
Spade Guadelupe	3,000	1	3,000	1,000 00	—	—			9 00
San Marcial	13,200	1	13,200	100 00	—	25 00			
San Nicholas	1,200		1,200	200 00	—	—		Sept 10, $2.	

MISCELLANEOUS.

Blue Ledge	7,800	1	7,800	50 00	—	8 00		Jun 16, $1½ ; Oct 5, $1½	
Fellows	2,500	1	2,500	100 00	—	—			
Melones	3,000	1	3,000	50 00	—	—		Oct 27, 2½ ; Mar 22, $1	
Napoleon	2,700	1	2,700	500 00	—	50 00		Jan 18 $12; June 30, $5.	32 00
Tuolumne	7,860	1	7,860	200 00	—	25 00		May 18. $2.	17 00

Fluctuations in Leading Mining Shares for the past Six Months.

Name of Company.	Jan. 1st.	Jan. 10th.	Jan. 20th.	Feb. 1st.	Feb. 10th.	Feb. 20th.	March 1st.	March 10th.	March 20th.	April 1st.	April 10th.	April 20th.	May 1st.	May 10th.	May 20th	June 1st.	June 10th.	June 20th.
Gould & Curry.....per ft.	$1,590	1,480	1,500	1,550	1,565	1,825	1,750	1,900	1,900	2,010	2,015	1,975	1,800	1,480	1,660	1,525	1,625	1,645
Ophir	375	300	300	325	365	....	385	440	450	530	590	560	500	490	550	485	480	500
Savage	1,600	1,640	1,600	1,650	1,565	1,620	1,615	1,505	1,750	2,000	2,025	2,020	1,600	1,375	1,300	1,190	1,150	1,425
Potosi	700	700	750	710	750	....	750	885	900	1,150	915	870	750	425	337	202	312	467
Chollar	1,050	1,000	1,020	990	810	910	775	885	700	705	1042	820	650	425	375	215	317	473
Hale & Norcross	260	210	220	215	260	235	240	330	350	472	625	640	450	400	455	440	400	650
Sheba	36	30	....	....	....	....	....	20	21	28	....	30	28	....	20	13	15	18
Dancy	....	12	14	....	....	....	10	45	25	16	15	....	20	....	22	15	15	15
Wide West	16	13	8	7	6	....	....	14	25	13	17	16	10	9	7	5	4	3
Burning Moscow	23	22	24	35	66	64	53	49	34	37	38	50	47	41	45	40	46	57
Pride of the West	....	....	....	....	....	....	....	8	5	3	....	....	....	....	....	....	....	....
Bullion	115	105	75	78	60	115	110	115	110	110	135	151	150	155	162	135	130	165
Real del Monte	15	....	12	10	....	....	....	12	16	12	14	....	....	....	....	12	10	....
El Dorado	....	....	....	....	....	....	....	10	5	6	....	....	....	....	....	....	....	....
Overman	120	100	90	....	130	215	200	350	300	305	325	300	245	210	180	115	100	120
Sierra Nevada	20	....	35	23	13	17	18	22	23	18	26	22	16	17	14	13	12	14
Yellow Jacket	765	810	865	970	1,480	1,475	1,780	2,350	2,650	2,570	2,500	2,400	2,070	1,515	1,550	1,400	1,320	1,150
White & Murphy	....	....	....	....	....	....	....	50	25	15	....	....	....	....	....	....	....	....
Sides	....	....	....	....	....	....	....	100	50	25	....	....	....	....	....	....	....	....
Uncle Sam	170	180	210	270	350	275	325	370	325	330	320	285	250	245	200	115	100	155
Baltic	15	....	....	22	....	....	....	20	22	20	15	....	....	....	....	....	....	....
North American	....	....	....	15	15	29	31	44	41	32	34	....	30	....	25	30	28	25
Baltimore American	....	....	....	....	....	....	....	20	20	21	....	....	....	....	....	....	....	....
Melones	....	....	....	....	....	....	....	10	5	3	....	....	....	....	....	....	....	....
Antelope	50	....	....	....	....	....	....	20	15	20	23	....	....	....	....	....	....	....
Napoleon	....	....	....	....	....	....	....	50	55	50	....	....	....	....	....	....	....	....
Sacramento	....	....	....	....	....	....	....	10	5	8	....	....	....	....	....	....	....	....
Utah	5	....	....	....	....	....	....	5	5	3	....	....	....	....	....	....	....	....
Lady Bryan	6	8	8	....	....	....	9	13	8	11	....	....	....	....	....	....	....	....
Imperial	120	120	128	120	135	....	150	145	192	200	213	205	285	282	235	139	175	217
Crown Point	....	650	650	700	720	900	1,070	1,400	1,450	1,400	1,360	1,170	1,000	1,000	885	725	780	760
Belcher	....	....	975	980	1,025	1,180	1,250	1,650	1,600	1,600	1,800	1,620	1,210	1,200	1,105	925	620	695

20 shs Burning Moscow at 29 per share.
20 shs Burning Moscow at 30 per share.
35 shs Burning Moscow at 30½ per share.
10 shs Burning Moscow at 29½ per share.
20 shs Burning Moscow at 29 per share.
150 shs Burning Moscow at 25 per share, s 15.
50 shs Burning Moscow at 23 per share.
10 shs Burning Moscow at 27½ per share.
20 shs Burning Moscow at 27 per share.
10 shs Burning Moscow at 26 per share.
10 shs Sierra Nevada at 14 per share.
10 shs Wide West at 8¼ per share.
60 shs Lady Bryan at 6 per share.
10 shs N. American, Ex Sam, at 48 per sh.
10 shs N. American, Ex Sam, at 45 per sh.
10 shs Spring Valley Water Co at 51 p cent.
10 shs Spring Valley Water Co at 50½ p ct.
$ 2,600 Legal Tender Notes at 73¼ per cent.

AFTERNOON SESSION.

7 shs Yellow Jacket at 1100 per foot.
6 shs Yellow Jacket at 1095 per foot.
1 sh Yellow Jacket at 1090 per foot, r w.
1 sh Yellow Jacket at 1090 per foot, s 3.
3 shs Yellow Jacket at 1085 per foot.
10 shs Potosi at 390 per foot, s 15.
24 shs Potosi at 397½ per foot.
10 shs Potosi at 395 per foot.

4 shs Crown Point at 905 per foot.
20 shs Crown Point at 90 per foot.
12 shs Crown Point at 910 per foot.
3 shs Belcher at 880 per foot.
3 shs Belcher at 850 per foot, s 3.
11 shs Uncle Sam at 305 per foot.
10 shs Uncle Sam at 312½ per share.
9 shs Uncle Sam at 31 per foot.
7 shs Uncle Sam at 305 per foot.
1 sh Uncle Sam at 307½ per foot.
3 shs Uncle Sam at 307 per foot, b 3.
35 shs Ophir at 540 per foot.
24 shs Ophir at 535 per foot.
12 shs Ophir at 530 per foot.
2 shs Hale & Norcross at 570 per foot.
15 shs Imperial at 225 per share.
48 shs Imperial at 220 per share.
27 shs Imperial at 219 per share.
20 shs Imperial at 218 per share.
10 shs Imperial at 210 per share, s 30.
15 shs Imperial at 220 per share, s 30.
20 shs Burning Moscow at 26 per share.
73 shs Burning Moscow at 25 per share.
20 shs Burning Moscow at 20 per share, s 30.
110 shs Burning Moscow at 25½ per share.
20 shs Burning Moscow at 25 per share, s 3.

10 shs N. American, Ex Sam, at 44 per sh.
10 shs N. American, Ex Sam, at 43 per sh.
100 shs N. American (Ex Sam) at 42½ per sh.
80 shs N. American, Ex Sam, at 42 per sh.
24 shs Lady Bryan at 6 per share
60 shs Lady Bryan at 6¾ per share.
21 shs Bullion, G H, at 182½ per share.
Amount of sales.....$181,384 00

Friday, July 21.

10 shs Hale & Norcross at 675@560 per foot.
15 shs Belcher at 825@840 per foot.
32 shs Crown Point at 900 per foot.
8 shs Crown Point at 890 per foot, s 3.
10 shs Uncle Sam at 295 per foot.
140 shs Potosi at 396@397½ per foot.
14 shs Potosi at 400 per foot, b 5.
92 shs Chollar at 410@412½ per foot.
115 shs Imperial at 22@229 per share.
29 shs Yellow Jacket at 1010@1070 per foot.
10 shs Sierra Nevada at 13½ per share.
4 shs Savage at 1312@1310½ per foot, s 30.
1 sh Savage at 1325 per foot.
16 shs Baltic at 17 per share.
80 shs Burning Moscow at 31@29½ per sh.

70 shs N. American, Ex Sam, at 40@41.
60 shs Ophir at 49 ⅝@500 per foot.
8 shs Cal S Nav Co at 75 per cent.
10 shs Spring Valley Water Co at 50½ p et
$12,000 Legal Tender Notes at 73¾@75¾.
$20 000 Legal Tender Notes at 73¾. s 30.
15 shs De Soto at 9½@10 per share.

AFTERNOON SESSION.

50 shs Justis at 17½@20 per share.
10 shs Cal S Nav Co at 75 per cent, b 3.
40 shs Burning Moscow at 3 @29 per share.
30 shs Sierra Nevada at 14 per share.
36 hs Uncle Sam at 295@290 per foot.
56 shs Potosi at 410@412½ per foot.
12 shs Ophir at 500 per foot.
16 shs Yellow Jacket at 1015@1045 per foot.
26 shs Yellow Jacket at 1050 per foot, b 3.
21 shs Crown Point at 900@900 per foot.
35 shs Imperial at 229@227 per share.
1 sh Savage at 1325 per foot.
76 shs Chollar at 425 per foot.
120 shs N. American, Ex Sam, at 40@41.
10 shs Lady Bryan at 6¾ per share.
$40,000 U. S. 7-30 Bonds at 74¾ per cent.
$15,000 Legal Tender Notes at 74¾ per cent.
Amount of sales.....$140,150 00

MECHANICS' FAIR.

DAILY PRESS.

e Proprietors of the MINING AND SCIENTIFIC PRESS having been granted the privi- of printing the DAILY PRESS at the Pavi- during the approaching Exhibition, are ng complete arrangements to publish a nd faithful record of the Grand Exhibi- and will present gratuitously to all visit- id exhibitors the LARGEST, most ATTRACT- nd VALUABLE paper ever issued at a pub- r.

Its Free and Extensive Circulation

ender it a peculiarly desirable journal for tising. From SEVEN TO EIGHT THOU- individuals visited the exhibition last n in a single day and evening.

r printing press, in active operation, rap- hrowing off an interesting sheet into the nands of the anxious throng, presents an ctive scene, affording one of the most and effective modes of advertising ever d through the columns of a newspaper. persons being eye-witnesses to the print- the paper, preserve copies as reminis- s of their visit to the Fair, while others re bound volumes to be retained as a per- nt record of the Exhibition, giving a fur- benefit to advertisers in addition to its circulation.

ose wishing to secure space for adverti- n the MECHANICS' FAIR DAILY PRESS, o well to make early application to the ictors or their agents.

yment will not be solicited until after the tisements appear and are found to be ding to contract or the satisfaction of the tiser.

DEWEY & CO.,

t Agents, Publishers of the Mining l Scientific Press, and Job Printers, 505 y street, San Francisco.

Notices of the Press.

wing are a few of the select compliments paid the lume of the DAILY FAIR PRESS, last season:

SCIENTIFIC PRESS proprietors strike off and give away nds of their little sheet, entitled THE MECHANICS' AILY PRESS. The second issue of this paper, pub- last night, gave the multitude some intelligence of shoo disaster. There were great crowds all the g about the telegraph and the presses, many of had their first sight at the practical working of great motors of civilization.—[S. F. Evening Bul- ept. 7, 1864.

TIFIC PRESS.—A printing office has been established Mechanics' Fair, and Messrs. Dewey & Co., the ca- ing publishers of the MINING AND SCIENTIFIC PRESS, uing from it a handsome double sheet daily, which edit to themselves, its editors, and to the Fair.—[S. ning Call, Sept. 8, 1864.

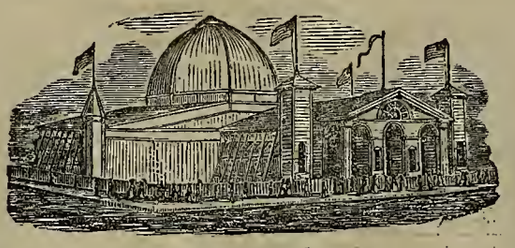
MECHANICS' FAIR DAILY PRESS is the title of a very uarto paper published at the Industrial Fair Pavil- Dewey & Co., of the MINING AND SCIENTIFIC PRESS. ets great credit, as does the weekly upon the en- e and ability of the publishers. We want it rogu- -[Reese River Reveille.

NEW color called "green cinnabar" is l by a foreign cotemporary to be prepared e following manner: Prussian blue is lved in oxalic acid, chromate of potash is d to this solution, which is then precipita- ith acetate of lead. The precipitate well ed, dried, and levigated, gives a beautiful powder. By varying the proportions of hree solutions, various shades of green be procured. Chloride of barium or ni- of bismuth may be used in place of sugar d.—*Mechanics' Magazine.*

PIECE of native copper, weighing 36 ds, was recently found on the farm of Mr. ussell, at Metamora, Lapeer county, Mich., tly imbedded in the soil, and was torn up e plow. A few years ago, a piece larger the one above referred to, was found a distance from where this was exhumed.

LENOIR, the inventor of the gas engine, evised a kneading-trough which is adapted c gas engine, and which any journeyman r can manage after half an hour's instruc- The mechanism performs exactly the of the baker's arms, without the disagree- accompaniments of the human machine.

THE FIFTH INDUSTRIAL FAIR



OF THE MECHANICS' INSTITUTE OF SAN FRANCISCO,

To be Held in the Mechanics' Institute Pavilion in August, 1865.

The Mechanics' Institute having determined to hold their Fifth Industrial Fair during the coming season, the Executive Committee would respectfully invite all persons desirous of exhibiting Machines, Manufactures, Agricultural Implements, Horticultural Products, Minerals, Ores. and Works of Art, to make application immediately, in order that the proper space may be allotted them.

The Exhibition will be open to the public on Thursday, the 10th day of August, at 10 o'clock A. M.

The general management of the Fair is entrusted to an Executive Committee, consisting of the officers of the Institute.

No contracts or agreements will be recognized unless made by the authorized agents of this Committee.

A competent person will be in attendance at the Pavilion to receive and register all goods designed for exhibition, and will receipt therefor.

Contributions of Machinery and other articles that require long time to prepare for exhibition, will be received from the 15th of July to the 2d of August.

Articles for exhibition that require large space may be entered on or before the 20th day of July, and space will be allotted to the exhibitor on or before the 2d of August.

The Picture Galleries will be ready for the reception of Pictures, Embroideries, Wax and Fancy Work of all kinds, on the 1st of August, when space will be allotted.

The Committee will be prepared for the reception of Fruits, Flowers, Agricultural and Horticultural Productions, and design to have the tables so arranged that the best display possible can be made in this department, and every effort will be made and care taken to preserve their freshness, so that exhibitors may receive full credit for their productions. Those wishing space on these tables should engage it at an early day. There will be space reserved for additions in this department during the Fair.

The several transportation companies, as on former occasions, have, with commendable liberality, consented to transport articles intended exclusively for exhibition free of charge, and Messrs. Wells, Fargo & Co., in like manner, will take charge of them.

The Committee have the fullest confidence that the coming Fair will not only be the most complete and varied in its character, but will also be more attractive than any previous exhibition of this kind on this coast.

No pains or expense will be spared to give the contributors satisfactory opportunities in the spacious pavilion of the Institute for the display of their contributions, and to furnish whatever may be necessary to make the Fair an institution where those who frequent it may be both pleased and instructed.

All articles forwarded should be labeled "For the Industrial Exhibition," San Francisco.

All communications to be addressed to C. S. HIGGINS, Corresponding Secretary.

EXECUTIVE COMMITTEE.

CHARLES M. PLUM, President.

JOSIAH MOULTON,	D. A. MACDONALD,
JAMES R. DEANE,	C. S. HIGGINS,
A. A. SNYDER,	DAVID DWYER,
W. W. HANSCOM,	H. K. CUMMINGS,
EDWARD NUNAN,	J. W. REAY.

P. B. DEXTER, Secretary.

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	7 00	@	7 00
Do Superfine	6 00	@	6 00
Corn Meal, ₱ 100 lb	3 00	@	4 00
Wheat, ₱ 100 lb	1 70	@	2 00
Oats, cwdee, ₱ 100 lb	1 75	@	2 00
Barley, ₱ 00 lb	1 25	@	2 50
Beans, ₱ lb	3	@	4 00
Potatoes	1 50	@	2 00
Hay, ₱ ton	12 00	@	15 00
Live Oak Wood, ₱ cord	8 00	@	10 00
Beef, on foot, ₱ lb	8	@	10
Beef, extra, dressed, ₱ lb	16	@	22½
Sheep, on foot	1 00	@	2 00
Hogs, on foot, ₱ lb	8	@	12
Hogs, dressed, ₱ lb	12	@	15
Groceries, Etc.			
Sugar, crushed, ₱ lb	15	@	16
Do China	12½	@	13
Coffee, Costa Rica, ₱ lb	22	@	23
Do Rio	22	@	
Tea, Japan, ₱ lb	85	@	95
Do Green	70	@	90
Hawaiian Rice, ₱ lb		@	10
China do	10	@	
Coal Oil, ₱ gal	1 05	@	1 10
Candles, ₱ lb	20	@	24
Ranch Butter, ₱ lb	40	@	45
Isthmus do	35	@	38
Cheese, California, ₱ lb	20	@	25
Eggs, ₱ doz	45	@	50
Lard, ₱ lb	23	@	25
Ham and Bacon, ₱ lb	23	@	25
Shoulders	15	@	18

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	45	@	50
do pickled ₱ lb	40	@	50
do Oregon	30	@	35
do New York, ₱ lb	35	@	40
Cheese, ₱ lb	20	@	25
Honey, ₱ lb	40	@	50
Eggs, ₱ doz	50	@	55
Lard, ₱ lb	25	@	
Hams and Bacon, ₱ lb	20	@	25
Cranberries, ₱ gal	75	@	
Potatoes, sweet, ₱ lb	6	@	8
do Irish, ₱ lb	4	@	5
Tomatoes, ₱ lb	10	@	10
Onions, ₱ lb	6	@	6
Apples, No. 1, ₱ lb	8	@	10
Pears, table ₱ lb	6	@	10
Plums, dried, ₱ lb	10	@	15
Peaches, dried, ₱ lb	10	@	15
Grapes, Foreign, ₱ lb	25	@	50
Oranges, ₱ 100	2 50	@	3 00
Lemons, ₱ 100	5 00	@	6 00
Chickens, apiece	1 00	@	1 25
Turkeys, ₱ lb	37½	@	
Wild Ducks, ₱ doz	4 00	@	6 00
Oysters, ₱ 100	1 00	@	1 25
Fish, Fresh, ₱ lb	5	@	20

NOTICE.

The co-partnership heretofore existing between John Youngborg, Stephen H. Covert and William B. Gleason, is hereby dissolved by reason of the said Gleason and Covert having left for the East. This is to notify all persons that I shall pay no debts contracted by the said parties from and after this date. JOHN YOUNGBERG.

San Francisco, May 15th, 1865. 20v10-1m

New Volume

—OF THE—

Mining and Scientific Press

Issued every Saturday. Each number contains 16 pages and 64 columns (size of Harper's Weekly).

PUBLISHED BY

DEWEY & CO.,

Patent Agents, Publishers and Job Printers, 505 Clay Street, San Francisco.

THE ELEVENTH VOLUME

Of the MINING AND SCIENTIFIC PRESS commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this journal may be anticipated by its numerous and rapidly increasing readers.

We shall continue to devote a large space in our columns to the various and best methods of treating ores and saving gold and other precious metals in every form, furnishing valuable hints to millmen, prospectors, oil-workers and miners generally, not to be found in any other publication.

New machinery, latest inventions and discoveries, and all matters pertaining to the mechanical, manufacturing and industrial resources of the Pacific States, will receive careful attention.

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Friends pleased with our efforts in the publication of the PRESS can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

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1852. 1865.

Thirteenth Year of Publication.

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GOLDEN ERA BUILDING,

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S. EWER,.....SENIOR EDITOR.

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is Impossible for editors to know all the merits demerits of their correspondence, consequently the er must not receive the opinions of our contributors r own. Intelligent discussion is invited upon all subs the evidence of any error which may appear will be re- ed in friendship and treated with respect.

merican and Foreign Patents.—Letters Patent inventors can be secured in the United States and foreign tries through the MINING AND SCIENTIFIC PRESS PATENT ICY. We offer applicants reasonable terms, and they rest assured of a strict compliance with our obligations, faithful performance of all contracts. For reference, ll furnish the names of numerous parties for whom ave obtained patents during the past two years.

vorable to Inventors.—Persons holding new in- ions of machinery and important improvements, can be same illustrated and explained in the MINING AND ntific PRESS, free of charge, if in our judgment the very is one of real merit, and of sufficient interest to eaders to warrant publication.

yment in Advance.—This paper will not be sent bscribers beyond the term paid for. The publishers know that a good journal cannot be sustained on the t system.

San Francisco:
turday Morning, July 22, 1865.

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been moved to the old printing stand known as Waters Bros. & Co's, southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

Canvassing Agents.

We would call attention to the following named agents of the MINING AND SCIENTIFIC PRESS as gentleman worthy of the countenance of any community which they may visit, and assistance rendered them in their efforts, by friends and patrons, or our brethren of the Press, will be acknowledged as a personal favor to us:—

Mr. **Robert Lattimore**—Amador and Alpine counties and the State of Nevada.

Mr. **Jos. Poyzer**, of Grass Valley, for Nevada, Yuba and adjoining counties.

THE PETROLEUM INTEREST---ITS EXTENT AND IMPORTANCE.

Even the most sceptical of our metropolitan citizens is now beginning to acknowledge the positive testimony which is daily accumulating, to the actual existence of coal oil in California.

Instead of ridiculing the efforts which are being made to tap this great source of wealth, and using its best endeavors to dissuade Eastern and Eastern capitalists from investing in such operations, as it did but a few weeks since, that portion of the press is now exerting its full belief in the reality of this promising interest. The croakers being now effectually silenced, it may be profitable to take a brief survey of the field and endeavor to form some idea of the position which California is destined to hold in the development of this great source of our national wealth.

Up to the present time we have not heard of any well authenticated instance of a flowing well in this State, although reports to that effect have been from time to time started; but we do hear reports, and most fully authenticated, of large quantities of oil being struck in numerous localities, in such quantities as to flow from a few feet to near or quite a hundred in depth in the borings; and in several instances a considerable quantity of the oil has been taken from the wells and shipped to this city and refined. The evidence at the Pico Mattole is almost positive of the ability of the proprietors to strike a flowing supply at a few additional feet in depth.

At Tulare valley a well has been sank, which is less than fifty feet, is said to be capable of producing a large quantity of oil. About a thousand gallons have been brought from this locality to San Francisco and refined, producing an illuminating oil equal to the best imported. The testimony of the existence of flowing springs, in the lower portion of the State, producing large quantities of oil, though doubted at first, is now fully believed. In addition to the evidence from the land, we have the farther testimony that California possesses reservoirs of oil, capable of producing flowing wells, from the well established fact of the existence of several oil springs beneath the bottom of the sea, off the coast of Santa Barbara county, from whence this liquid is discharged in great profusion, so that for many miles, and at several different localities, vessels pass through it in such quantities upon the surface of the water, as, in still weather, to prevent the usual ripple of the water at the vessel's prow; seeming to move noiselessly and smoothly as through a sea of oil. The actual locality of at least one of these springs has been carefully noted, where, when the sea is calm, the oil may be seen coming up from the bottom, several fathoms deep, in a long, wavy and distinctly defined column until it reaches the surface and spreads over the sea. This flow has been continuous, in all probability for *hundreds and thousands of years*, and affords a most unanswerable argument against the limited supply theory with regard to these subterranean reservoirs, either at the East or in California. If natural flows of such vast extent exist in that locality, why may we not expect the same results to follow, at least, some of the artificial openings which are now being made at so many points up and down our extended coast? The fears of a limited flow sometimes expressed in consequence of the asserted failure of oil wells at the East are scarcely worth consideration, from the fact that the bad management by which they often became choked with water or paraffine, or bad tubing, or defective seed bags, will be eventually overcome by experience; or the flow regained by going deeper. When a large number of wells are sunk in a small locality, as is often the case in Pennsylvania, the same result will follow as does the energetic working of a coal mine—a particular locality will be worked out, but generally only to lead to a still greater supply near or distant. Nobody disputes the practical inexhaustibility of our coal mines—there is just as little doubt with regard to the practical inexhaustibility of our oil wells.

In this connection it may be remarked that there is no one product of nature, which is at all essential to the happiness and prosperity of man, which he has ever yet been able to exhaust. It has long been considered as one of the wise providences of the Creator, that the great necessities of iron and coal, though non-progressive, should be, by their abundance, equally as inexhaustible, by the puny efforts of man, through all his countless generations, as the re-producing vegetable and animal products, or even the elements themselves. It seems obvious, from the vast superficial extent over which petroleum has been found, and the fact that we have historic evidence of the existence of natural springs through thousands of years, coupled with the seeming necessity for just such a material that this wonderful subterranean supply should bear the same relation to the wants of man as do those twin elements of civilization and progress—coal and iron. Where else in the economy of nature shall man look for his future supplies of artificial light, or the lubricating agent so indispensable to the gigantic increase of the modern railroad, with its rolling wheels, busy workshops and the endless multiplication of machine shops, which springs up everywhere along its track? Surely the utmost of human researches into the mysteries of chemistry, since the decline of the whale fishery, are not able to give us even the most distant clue to any supply at all adequate to the present, to say nothing of the prospective demand. Fuel and iron would soon have become shorn of their greatest benefit had not an all-wise Creator, from the beginning, provided a third agent, to form a triune power, by which His creatures should be able to move forward and upward in the great march of progress, which He has evidently marked out for their accomplishment.

The evidence of its practically unlimited supply is already such as to warrant mankind in taking the assumption as a fact, and so governing their operations as to take the fullest advantage of this new and unexpected source of wealth. To this end the geologist is already applying his researches, fully cognizant that he has never before had brought to his consideration a question of greater practical importance. So well has he entered upon his labor that he has already mapped out its localities with such skill that oil boring is now no more a speculative operation than is mining for coal, iron or copper. The inventor, with his ever ready and practical ideas, is also laboring to devise additional facilities for raising, transporting and rendering serviceable to man, this new article of commerce; and the books of the patent office during the last three or four years, have been thickly interspersed with the records of hundreds of new inventions, called forth by this wonderful agent. The chemist, too, is bringing to bear all the skill of his mysterious labors to thoroughly comprehend its nature and applicability. Already through his efforts in this direction, has the world been called upon to witness and acknowledge the most astonishing evidences of the obligations of commerce to scientific research. The fears which at first took possession of the minds of men that the profusion in which it was found would render it a "drug on the market," are now fairly dispelled, and petroleum has become the third most universal necessity of civilization. Even in the present infancy of our knowledge of its applicability, it supplies fully a dozen wants where coal supplies one; and though it should be found far more plentiful than our most sanguine expectations now look for, unless some other substance is discovered to supply its place to a great extent, it must still continue to be a source of profit to its producers, subject only to the casual fluctuations common to all great commercial products.

ANOTHER MINING SWINDLE.

The Gold Hill *News* has seen an elaborately prepared pamphlet, of twenty-five pages, signed by John Perry Curry, C. E, which has been got up to sell a lot of wildcat stock in the Eastern cities. The copy in question was sent from Boston, by a gentleman who thought of investing, to a friend in Virginia City, asking his advice. The Virginia gentleman immediately telegraphed to his correspondent that the whole thing was a swindle, a fact which was patent upon its very face to any one acquainted with the Comstock lode. A diagram of that celebrated lode was given, with some of the leading mines therein, correctly laid down, and between which was ingeniously sandwiched a number of wildcat mines, which have no existence whatever. The swindle consists in attempting to palm off these pretended claims by representing them as located adjoining to well known and paying claims. How long will the Eastern public allow itself to be gulled by such errant swindlers? Just as long, we opine, as they insist upon investing in California mines, without taking California papers, from which they can obtain valuable and reliable information. We have plenty of valuable mines—some that are paying dividends, and therefore command a high price; others that are but partially developed, but recently located, and which can be bought at a low figure, the buyer taking his chances in the speculation of development. Capitalists at the East are invited to invest in these mines; but they are constantly warned by the papers published on this coast to make their purchases through honest and well established agencies or individuals. Our advice to friends at the East is, never to invest a dollar in a mine on the Pacific coast through any traveling vender of mining stocks. Such men are nearly all engaged in swindling operations.

WEALTH OF SAN FRANCISCO.—San Francisco will this year pay half the taxes of the State. The taxable property of this city for the present year will reach fully $90,000,000, while that of the State will not go much, if any, over $180,000,000.

BOSTON has 1050 manufacturing establishments; the amount of capital invested is $14,527,880, cost of raw material $20 354,277, males employed 14,004, females 4990, annual cost of labor $6.948,229, annual value of products $37,681,808.

Illegal Advertising.

PUBLISHERS OF THE PRESS:—I have at different times noticed your remarks about illegal advertisements of stock companies and think you do the public a favor. I know that you are not responsible for *illegal assessments*, but you might confer a favor, when such is offered to you for publication, by calling the attention of the secretary to the defect. As I understand the Law of April 4, 1864, you will find quite a number of such in your last issue, commencing with the Halleck G. & S. M. Co., on page 29; assessment levied July 5th, 1865, to be delinquent August 12th, 1865; that is thirty-eight days. See Sec. 4 of the Law.

MINER.

REMARKS.—We are much obliged to "Miner" for the interest he manifests for legal advertising of assessments. The informal proceedings now transpiring in this city in levying and collecting assessments illegally, are quite liable to result in serious difficulty; in fact immense litigation must ensue for offenses already committed, unless bills of relief are passed by future legislatures, or most of the principal stock sold fails to be of any considerable value.

That we publish illegal advertisements in our paper is very true. We inform our patrons of any and all informalities which are to be detected by carefully reading the notices for insertion, and, when errors are discovered, advise secretaries of the best method, in our judgment, of amending their transactions; but leave them to do as they choose in regard to following our recommendations. By this manner we are satisfied of having saved many companies from serious if not fatal difficulties. In some instances, however, our opinion has been kindly received, though disregarded; but as our advice is gratuitous, no damage is done our tendered opinion, even in such cases.

In reference to the assessment of the Halleck G. & S. M. Co., "Miner" is quite mistaken in supposing the advertisement is illegal in its form. He will please read the law still further, and observe the following provision:

SEC. 14. No assessment duly levied shall be rendered invalid by a failure to make proper publication of the notices herein before provided for, nor by the non-performance of any act required to be performed in order to enforce the payment of the same; but in case of any substantial error or omission in the course of proceedings for collection, all previous proceedings, except the levying of the assessment, shall be void, and publication shall be begun anew.

The assessment of the Halleck was levied on the 5th of July, too late for the Secretary to advertise the notice on the 9th, (the following Saturday,) in the paper published at the mine in Alpine county, consequently on "omission" was unavoidable, and by publishing the notice on the subsequent four weeks the Secretary adopts the only resource left, and virtually "begins publication anew," as positively provided for in the law. The section as quoted above makes no distinction in regard to the character of the "error or omission," providing only, that it shall be a substantial one. But for this clause we consider that it would be impossible for a large number of companies, whose mines are located at great distance, to operate at all under its outrageous provisions.

We wish it to be thoroughly known that we did our best to defeat so obnoxious a law, and ours was the only press which showed it up in its true character previous to its passage. It is sufficient for us to say that it is a *significant fact* that, as originally introduced, the bill provided that all assessment notices should appear ONCE A WEEK, on Saturday, in a DAILY newspaper. You *must* advertise *weekly*, on Saturday, but you *must not* patronize a *weekly* journal issued on Saturday, was evidently the stupid if not "disinterested" idea of the author. Understand, it is cheaper to issue supplements once a week, than daily, in *accommodating* mining companies with illegal advertising at freezing rates.

COST OF STARTING A NEWSPAPER.—Late Assistant Secretary-of-War Dana has gone to Chicago to start a newspaper—the *Republican*. The new paper starts with a capital of $200,000. Mr. Dana, who will be its chief editor, is one of the most brilliant and astute political writers in the Union; he is to receive a salary of $10,000 a year.

REVOLUTION IN MINING.

Under the abovs head, the New York *Tribune*, of June 12th, devotes a leading article, of a column and a half in length, to a new process of reducing gold and silver ore, purporting to have been discovered by Dr. J. C. Ayer, the well known compounder of patent medicines. The article was evidently prepared on the facts furnished in detail by Dr. Ayer himself. The discovery purports to be a process of liquifying, or rather *softening* the quartz and desulphurizing the sulphurets in such a thorough manner as to effect a perfect liberation of all the gold or silver contained in either the quartz or sulphurets. This article, or its substance, is now being generally copied into the California press. The statement, with regard to the process as given in the *Tribune*, was evidently written by one entirely unacquainted with the ordinary mechanical process of milling, or even the process necessarily dependent upon the pretended discovery in question. If Dr. Ayer has really made any valuable discovery, he has been singularly unfortunate in his effort to bring it to the notice of the mining public. Absurdity is the only thing apparent to the intelligent reader of the article in the *Tribune*.

It was with the utmost astonishment that we found connected with the so-called "process," as approving of the same, such distinguished names as those of Dr. Hayes, State Assayer and Mineralogist of Massachusetts, Professor Silliman, of Yale College, and Professor Torrey, United States Assayer of New York. Mr. Torrey being in this city at the present time, we have taken the pains to ascertain whether the use of his name has been given for such a purpose, and have learned *that such is not the case;* on the contrary, the Professor is quite indignant at finding it employed in such a connection. We have furthermore learned that this is not the first time that this same Dr. Ayer has made use of similarly distinguished names to palm off his "discoveries" and compounds upon the public. From these facts, and the internal evidence of the article under consideration, we are led to conclude that the names of Dr. Hayes and Professor Silliman are also improperly employed, and that we are in no immediate danger of a "revolution in mining" from this latest "pronunciamento."

A Home Silver Mine.—We have on several occasions alluded to the "Layne Gold and Silver Mine," located at Rock Springs, El Dorado county, about four miles from Folsom, on the Auburn road. A few days since, Mr. John P. Layne, who located this mine, brought to our office a bar of silver made from ore from this mine in 1863. We learn from him that he has been laboring assiduously since that date; but, until lately, with indifferent success. Quite recently the workmen came upon a blue ore, of improved character, at the depth of sixty feet from the surface, from which they are now taking out ore which Mr. Layne considers unquestionably richer than the croppings, which have assayed, by working tests, as high as $191 at the Pacific Metallurgical Works in this city. The ledge is six feet wide between the walls; the best paying streak being eighteen inches wide on the foot or east wall. Samples of the ore can be seen at W. F. Bryant's office, 325 Montgomery street. We like the idea of having silver mines located so near home, and hope to hear further flattering reports from the Layne Company, and will take this occasion to invite them to exhibit their ores at the Mechanics' Fair, in our general collection of minerals.

Large Passenger List.—The steamship Golden City, which left this port for Panama on Tuesday last, took away 794 passengers. Her rates of fare were as follows: First cabin, outside rooms, $225—inside rooms, $200; Second cabin, $190; Stecrage, $80.

To Correspondents.—"A Trip to the Mountains," by A. S. N., next week; Letter from Slate Range, and a communication from Denver, unavoidably postpoued to another week.

COAL IN SANTA BARBARA.

At the rooms of Mr. Roach, philosophical instrument maker, on Washington street, below Sansome, may be seen several sacks of coal from a newly discovered coal basin in Santa Barbara county, some sixty-five or seventy miles up the Salinas Valley from Montcrey. This basin is just over the first ridge to the east of the main valley, and crops out profuss in a little valley of an oval shape, and about four by three and a half miles in superficial extent. There are soms six or seven overlaying veins, representing a geological depth of about three hundred feet. Only two of thess veins have been examined, and these superficially, to the extent of a few feet only in depth. The upper vein opened, and the third in the series, is about seven feet in thickness; the lower one opened, and the last yet discovered in the series, is about five feet in thickness. The coal is a lignite, of about the same quality as that found at Mount Diablo. The lower of the two opened is much superior in quality to the upper, and there is good reason for supposing that when this vein is opened to any considerable depth, it will produce a better coal than any now worked in the Stats. So abundant are the croppings, as our informant (Mr. J. C. Colt) assures us, that fully a thousand men could be at once set to work directly upon the coal. This coal can be traced northwardly fully twenty miles.

Higher up the mountain, but geologically below the coal, are numerous copper indications, which, in several instances, have been explored to some extent, but not sufficiently as to determine with any degree of certainty with regard to the quantity of this mineral. The quality is very superior, much resembling in appearance, and we should suppose in occurrence also, the copper of Mount Diablo. The Burra Burra Copper Mines, and the New Idria Quicksilver Mines, both of which have produced considerable sensation in mining circles in this city, are located near this coal field. Oil indications are also abund nt. The main valley of Salinas, but more particularly the smaller valleys between the mountain ranges, present most desirable fields for agricultural development; the whole opening out into the fine harbor of Montcrey.

Monterey will probably in time become the entrepot for a large population, which must sooner or later be scattered through these valleys and mountains—the mountain people developing and bringing to light the minerals, and the residents of the valleys producing the cereals, vegetables, meats, etc. for the mines. The mountains and mountain valleys abound in wood and water. We are told that a direct railroad connection can easily be made between the upper portion of this valley and the Tulare Valley, which would bring the latter within a few hours travel of Monterey. Should a careful survey prove such to be the fact, the trade of the Tulare must eventually take quite a different turn from that generally looked for; and Monterey, with its fine harbor, will be developed into quite an important port. The immense oil deposits of the Tulare Valley will soon demand an exit to tide water, and, unless indications are altogether deceptive, will themselves fully sustain a line of railroad to some point where direct steam communication can be established with this city. If no insurmountable physical obstacles intervene, the obvious and natural direction for such a route is to Monterey, which is about one hundred and fifty miles distant from the center of the Tulare oil regions. Such a road, if built, would run directly by, if not across, the coal deposits of Santa Barbara county, thereby not only affording an outlet for the oil and agricultural productions of the Tulare Valley, and the important mineral regions just being developed a short distance to the eastward, but in passing through the entire length of the Salinas Valley, and along the flank of the coal and mineral regions of Santa Barbara, would also place that within *three hours* travel of the second best harbor on the Pacific coast. A rich and important field is here presented for the enterprising capitalist—and one which should be carefully and thoroughly explored.

A trust deed, embracing nearly the whole of Sacramento, conveying the Sutter title to William Harvey, of that city, in trust for a son of Mrs. Ruth S. Bruce, of Boston, Mass., was received for record a few days since in Sacramento.

The first printing press in North America was established in the City of Mexico, about the year 1600. The first press in the English Colonies was set up at Cambridge, Massachusetts, in 1629.

ELECTION OF OFFICERS OF MINING COMPANIES AND INCORPORATIONS.

[Below we give the date of recent meetings held in this city and the names of officers chosen or appointed. Every bona fide company is invited to send us the result of their election, to be thus put on record, gratuitously, with any other facts of general interest.]

Arizona Cons. M. Co., Eureka District, Arizona Territory.—May 1st. Trustees: E. F. Bunnell, L. K. Baldwin, Z. B. Heywood, J. J. Schmedes, M. E. Austin. President, Dr. E. F. Bunnell; Secretary, John Q. Adams; Treasurer, John J. Schmedes. Offics No. 6 Mont'y Block.

Bacon M. & M. Co.—June 6th. Trustees: John Nightingale, M. C. Hillyer, Hiram Bacon, Lewis Gerstle, Jacob Greenbaum. President, John Nightingale; Secretary, W. E. Dean; Treasurer, John Simc; Sup't., J. W. Woodruff. Office 706 Mont'y St.

Black Diamond Coal M. Co.—June 14th. Trustees: R. H. Randall, Thos. Hardy, C. A. Eastman. President, C. A. Eastman; Secretary and Treasurer, Frank Barnard; Sup't., Benj. James. Office 110 Jackson St.

Chloride Ledge G. & S. M. Co., Blue Mountain District, Calaveras County, Cal.—Trustees: S. A. Winall, E. H. Gadsby, S. Silverberg. President, S. A. Winall; Secretary and Treasurer, R. H. Smith. Office 606 Mont'y St.

Crown Point G. & S. M. Co.—June 5th. Trustees: A. H. Barker, G. T. Grimes, M. Morgantbau, B. F. Sherwood, Isaac Glazier. President, A. H. Barker; Secretary and Treasurer, J. H. Jones; Sup't., T. G. Taylor. Office 708 Mont'y St.

Emilia M. Co.—June 21st. Trustees: C. Ringel, J. Caire, P. Seuer, J. Kuell, Geo. F. Hofman. President, C. Ringel; Secretary, T. B. Cunningham; Treasurer, J. Caire; Sup't., R. San Martin. Office 55 Montgomery Block.

Golden Rule M. Co.—July 11th. Trustees: John H. Turney, Jas. Thos. Boyd, R. L. Pastcur, D. D. Shattuck, Wm. Bosworth. Secretary, J. B. Russell. Office N. E. corner Mont'y and Merchant Sts.

Green G. & S. M. Co., Gold Hill District, Nev.—June 7th. Trustees: John Henderson, J. W. Shoemaker, Edward Flanagan. President and Treasurer, John Henderson; Secretary, R. H. Smith; Sup't., D. J. Oullahan. Office 606 Mont'y St.

Gobernadora S. M. Co.—June 19th. Trustees: Geo. C. Waller, Thos. Prince, John F. Larrabee, E. R. Hawley, A. N. Humphrey. President, Geo. C. Waller; Secretary, John Q. Adams; Treasurer, Thos. Prince. Office No 6 Mont'y Block.

Gov. Seymour G. & S. M. Co.—July 3d. Trustees: L. C. Dodge, J. A. Drinkhouse, H. F. Cutter, A. J. Baber, D. B. Francis. President, D. B. Francis; Secretary, E. J. Drinkhouse; Sup't., M. O. Hulburd. Office 228 Front St.

Imperial S. M. Co.—June 27th. Trustees: Chas. Hosmer, G. T. Lawton, J. E. de la Montanya, L. W. Coe, Horace Webster, Wm. B. Brown, A. H. Barker. President, L. W. Coe; Vice President, Chas. Hosmer; Secretary, D. A. Jennings; Sup't., P. S. Buckminster. Office 708 Montgomery St.

New Year's Diggings G. & S. M. Co.—June 13th. Trustees: C. L. Lipman, A. Pavillier, B. Lagoarde; President, M. Lebatard; Secretary, A. Kunast; Treasurer, B. Eng Anger; Sup't., Chas. de St. Julien. Office 540 Washington St.

Starlight G. & S. M. Co.—June 21st. Trustees: C. H. Wetherbee, E. L. Montgomery, W. T. Hurtt, T. C. Grant, J. H. Gager. President, C. H. Wetherbee; Secretary, J. H. Gager; Sup't., E. L. Montgomery. Office 734 Mont'y St.

Seaton M. Co., Amador Co.—Incorporated June 13th. Trustees: Geo. Hearst, W. W. Stow, C. H. Bradford, Wm. Thompson, Jr., G. W. Scaton; President, Geo. Hearst; Secretary, Stephen T. King; Treasurer, W. C. Ralston; Sup't., W. H. Hepburn.

Sheba G. & S. M. Co.—June 17th. Trustees: George Hearst, R. G. Brown, Wm. M. Cent, Erwin Davis, A. H. Houston, George Faulkner, J. S. Johnston. President, James S. Johnston; Secretary, S. T. King; Treasurer, Bank of California; Sup't., James G. Rule. Office 712 Mont'y St.

Shoshone S. M. Co.—June 14th. Trustees: Henry Carlton, Jr., Geo. Clifford, J. W. A. Gilmor, S. R. Harris, F. R. Baby. President, Henry Carlton, Jr.; Secretary and Treasurer, M. J. Newmark; Sup't., M. J. Goodfellow. Office 529 Clay St.

Southern Light G. & S. M. Co.—July 3d. Trustees: David Mitchell, J. W. Harker, J. P. Cantin, D. B. Francis, S. K. Nichols. President, S. K. Nichols; Secretary, E. J. Drinkhouse; Sup't., Geo. T. Terry. Office 228 Front St.

Simpson M. & M. Co.—June 5th. Trustees: Geo. H. Ensign, C. W. Rand, Wm. B. Agard, Thos. A. Hughes, Isaac S. Church. President, Geo. H. Ensign; Secretary, T. B. Cunningham; Sup't., J. L. Simpson. Office 55 Mont'y Block.

Yankee Blade G. & S. M. Co.—June 1st. Trustees: S. B. Brinkerhoff, W. E. Greenwell, Warren Holt, H. H. Moore, John A. Cook. President, S. B. Brinkerhoff; Secretary and Treasurer, J. S. Luty. Office 305 Mont'y St.

Gone to the Mines.—Mr. J. R. Murphy, of the Metallurgical Works of Kimball & Murphy, Bryant street, in this city, is now absent on a visit to the mines. He will make a general tour of observation through the transmontane mines, and will spend a considerable time in Reese River. No person has had more general experience in the working of the mineral ores of the Pacific coast as Mr. Murphy. The object of his present trip is to make the acquaintance of persons engaged in mining, and to more thoroughly inform himself, by personal observation, with regard to the peculiar characteristics of the mines of the Eastern slope. We trust his trip may be both profitable and pleasant.

Destructive Conflagration.—The burning of the Pacific Warehouse, in this city, on Tuesday night last, involved a loss of property which it is thought will reach fully $600,000, if not more. The fire is thought to have been caused by spontaneous combustion from benzine. Fifty thousand dollars worth of benzine and petroleum were stored in the basement of the warehouse, where the fire was first noticed. There was an insurance on the goods to the amount of about $400,000, in this city and at the East.

Gun Cotton.—Further experiments of the use of gun cotton in blasting, have been tried within a few days past at the Almance Tunnel, near Virginia City, Nevada. Two holes were drilled, of equal size, and calculated to do equal execution. One was charged with cotton, the other with common blasting powder. The former is said to have had the decided advantage in execution.

Mr. Lincoln's Favorite Poem.—Quite a little discussion took place recently in this city, with regard to the authorship of a certain very fine piece of poetry, which was a great favorite with Mr. Lincoln, Its authorship was claimed for him by the *Flag*, of this city. The Boston *Commonwealth* says it was written by William Knox, a poet of considerable talent in Edinburg, Scotland. It was first published in 1825.

Postponements.—We would again call the attention of Secretaries to a certain point of the mining law, too commonly overlooked, viz: The requirement that all postponements must be added previous to the expiration of the regular publication of assessment or sale notices.

A Hero Indeed.—The telegraph states that Admiral Dupont, lately deceased, has bequeathed $175,000—the total amount of his prize money—for the founding of a National Asylum, at Washington, for the orphans of those soldiers and sailors, who have bravely fallen in defence of their country's liberties. A more fitting monument could not be raised to his memory.

General Rosecrans will arrive in this city by the next or the next subsequent steamer. He visits California under a six months leave of absence, and his chief object of coming here is to look after some mining interests with which he is connected at Reese River.

Pure spirits are sent to New York from Hamburg 66.8 deg. over proof—a condition entitling them to be considered as liquid fire. A wharf laborer recently met his death from sucking at a cask of such spirits supposing it to have been wine. He died in a few hours, and a fellow pilferer was severely burnt internally.

Where are the Jews?—It is said that there are twice as many Jews in the city of New York as in all Palestine. The side of the town below Seventeenth street and east of the Third Avenue is rapidly fillings up with them. They are also becoming almost the exclusive dealers in large branches of trade.

The Nevada Gazette is now published by Wm. H. Sears & Co.

THE PREPARATIONS.—The time for the opening of the Fifth Exhibition of the Mechanics' Institute of this city is rapidly approaching. The exhibition will open in two weeks from Thursday next—the 10th day of August, at 10 o'clock, A. M. In the mean time persons intending to contribute to the same should lose no time in making their preparations. Space will be allotted to the exhibitors who have applied for the same on or before the 2d of August; by which time the picture gallery will be ready for the reception of pictures. The motive power will be provided by two steam engines and a calorie engine. The statue of Lincoln, by Mezzara, will occupy the center of the area beneath the dome. This statue, being placed on a pedestal several feet in hight, will be somewhat larger than life, and will form one of the most appropriate and imposing features of the exhibition. The Old Folks' Kitchen, which has attracted so much attention in late Eastern exhibitions, of similar character, will form a leading feature here. Swain & Brown are remodeling the restaurant and promise to make it a pleasant retreat. No time should be lost by those intending to apply for space to file their applications.

SOCIETY.—The pleasure of society depends more upon females than upon men. Gentlemen expect to be entertained, children are out of the question, and therefore it rests upon women what society shall be. The pleasure of an evening's entertainment is graduated by the capacity of the hostess to interest her visitors in each other, and make them forget that their own identity is to be lost in the efforts to make every one at ease. This is the great secret of true enjoyment. Some ladies will enter a drawing-room or social circle, where every person's neighbor appears like an iceberg, and the whole atmosphere is chilly and constrained, and by their genial nature and well timed playfulness, throw sunshine and warmth all over the the room, till all commingle in that easy and yet dignified cordiality that ever characterizes true gentility.

The Sheba Mine Report.

To the Shareholders of the Sheba Gold and Silver Mining Company.

Your Committee on mine and mill, under instructions to publish their findings, respectfully report that they have passed eighteen days in the discharge of their duty, and that they thoroughly examined the property and investigated the affairs of the company in Star district, Humboldt county, Nevada. We find that Mr. Rule, who has charge of the mine, at a point four hundred feet from the mouth of the tunnel, discovered a pay seam, upon which he has drifted one hundred and fifty feet, it continuing the entire distance This seam, when discovered, was exceedingly narrow, but has gradually widened, and although it yields but a small quantity of ore daily, gives promise of a rich reward in its progress, as any day the chimney—the croppings of which (containing ore) exhibit themselves five hundred feet above, may be struck; and that is the point Mr. Rule has been running for the past three months. This pay lead is well defined by crossings, and is almost vertical, and gives great promise of an abundance of ore of value.

The mine is being developed with the strictest economy, the total expense being about fifteen hundred dollars per month. We find that from 125 to 150 tons of ore, worth $150 per ton, has been excavated, and that as much more is accessable, but of an inferior quality. The ore in the north drift in the regular pay seam above mentioned, is of a rich character. We believe the indications for a well defined lode at that point could not be better, and we would suggest the shareholders to stand by Mr. Rule in pushing that drift forward. The Committee disapprove of starting the mill on the ores excavated until the work progresses to a point entirely independent of the disturbed portion of the mountain, when we can with more certainty determine whether or not the mill can be kept constantly running. This, also, in view of the fact that a large outlay of money will be required to start up the mill, as the mill-workmen must be transported from remote points at a large expense to them. Bell fly, we believe, we have now a good and permanent mine, and that if the shareholders advertised as delinquent would inspect the property, their names would not so appear. We must here state, that the work of forwarding the north drift to the desired point cannot be prosecuted much longer unless the delinquent assessments are at once paid, as large sums are due the workmen for their labor, who have only labored so long and faithfully, as they assert, believing the mine will soon be in successful operation. But if the assessments now advertised as delinquent, are not paid, they will work no longer. They must and should receive some money to enable them to continue to develop the mine.

To the complaints of the large amount of assessments that have been levied, while realizing that fact ourselves, we find that large sums were necessary in the opening of this mine, and believe if the Sheba mine was located near Virginia City much larger sums would have been cheerfully expended in its development, if found necessary. We find the management at the mine excellent, and if the delinquent shareholders will pay up, there would remain eight or nine thousand dollars after the payment of all the indebtedness, and we believe no further assessment would be required to enable Mr. Rule to finish his present work.

We find the mill will require the expenditure of a small sum of money to render it the best mill in the State. A watchman is employed to look after the mill and furnaces and the stores, consisting of mill and mine materials sufficient for over six months. The books and accounts of the officers are well arranged, and, we are satisfied, are in proper hands.

In conclusion, we would state that the present depression of the stock is in no wise owing to the condition of our affairs at Star City. Let those parties who placed an injunction on certain of the stock remove the same, the other stock carrying two or three assessments would be at once free; and with the consequent healthy condition of the finances the merits of the mine would rapidly advance the stock to its proper figure.

Respectfully, GEO. FAULKNER,
A. P. OVERTON, Committee.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinqnent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and all other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Alpha, Gold Hill		June 1	Caution
Adriatic, Storey co., $1.5		July 24	Aug 9
Bolinas, Petroleum, Marin co., 25c		Aug 5	Aug 19
Bella Vista, Lower Cal, 25c		July 29	Aug 12*
Bacon M. & M. Co., $10		Payable May 10	
Burning Moscow, Storey co., $.0		Aug 16	Aug 29
Boston, El Dorado co., 50c		July 11	July 25
Belcher, Baldwin & Abernethy		Dividend of $17, June 3	
Bullion $10			Sale Aug 7
Barreteros, Sinaloa, Mex., $5		July 27	Aug 7
Baltimore American, Storey co.		Annual Meeting July 22	
Barreteros, Sinaloa		Annual Meeting Aug 7	
Burning Moscow		Annual Meeting July 25	
Benecia Cement Co., $5		Aug 8	Aug 23
Blue Ledge, El Dorado co., $1 50		Aug 16	Aug 30
Camargo, (Eclipse) Lander co. $5		Aug 19	Sept 6*
Chloride Ledge, Calaveras co., $1		Aug 12	Aug 26*
Cherokee, Echo District, 75c		July 29	Aug 12*
Caledonia Tunnel, Gold Hill, Nev., $3		July 15	July 29*
Confidence,		Dividend, $100 per foot	May 1
Chollar, Storey co., Nev., $12½		July 31	Aug 14
Cosala		June 7	Caution
Cole, Storey co., $1		July 15	July 28
Conbortita, Sinaloa, Mex., $2.50		July 15	July 27
Cortez, Lander co		Annual Meeting Aug 3	
Diana, Lander co., $2		July 8	July 24
Diana, Lander co		June 7	Caution
Dardanelles, Del Norte co., 25c		Aug 5	Aug 19
Dancy, Lyon co., Nev., $1 25		Aug 11	Aug 28
Dead Whale Asphaltum		Meeting July 26	
Emilia, Mex., 50c		July 29	Aug 12*
El Dorado, Alpine co., $1		July 22	Aug 7*
El Tesora, La Paz, $1		Aug 14	Aug 25
Franco-Americana, San Antonio, 50c		July 29	Aug 11
Globe, Alpine co		Annual Meeting Aug 21*	
Golden Rule, Dividend		Payable July 20*	
Good Hope, Alpine co., 50c		Aug 12	Aug 26*
Geo. Washington, Alpine co., $1		Aug 12	Aug 25*
Gould & Curry,		Dividend, $50	July 6
Gold Hill Tunneling, Storey co., $1		June 30	July 22
Gem of Sierra, Humboldt co., Nev., $5		July 12	July 31
Green, Storey co., $1		July 22	Aug 5
Gem of Sierra		Annual Meeting July 22	
Green Lode, San Bernardino co., $1		July 24	Aug 4
Great Republic, Contra Costa co., 12½c		July 29	Aug 16
Guadaloupe, Chihuahua, Mex., $10		Levied June 26	
Great Consolidated, Boise River, Idaho, 50c		Aug 11	Aug 22
Golden Rule Dividend		Payable July 20	
Honest Miner, Lander co., 50c		Aug 26	Sept 12*
Hadleck, Alpine co., 50c		Aug 12	Aug 26*
Hanscom, Del Norte co., 15c		July 22	Aug 5*
Hale & Norcross, Storey co., $25		Aug 7	Aug 21
Hibernia, Arizona, 30c		July 4	July 27
Imperial, Dividend, $10		Payable July 5	
Imperatrice Eugenie, Calaveras co., 30c		July 1	July 20
Jewett, Gold Hill, Nev. $1		Aug 19	Sept 2*
Kentucky, Calaveras co., 50c		July 12	July 31
Lady Franklin, Alpine co., 50c		July 8	July 23*
Lady Bell, Del Norte co., 10c		July 10	July 24
La Libertad, Lower Cal., 50c		Aug 5	Aug 14*
La Victoire, Mariposa co., $3		Aug 12	Aug 28*
Lotus, Calaveras co., 15cts		Aug 15	Sept 2
Marathon, Mono co., 50c		July 15	July 29*
Mina Rica de las Flores, Calaveras co., $1		July 4	July 24
Mt St Helena, Lake co		Annual Meeting July 25	
Minerva Cons., Gold Hill, $25		July 31	Aug 15
Mina Prieta, Sonora, Mex		Adj. Meeting July 28	
Maggie, Lander co., Nev., $2		Aug 8	Aug 19
Nuestra Sen. de Guada'oupe, Durango, 50c		July 29	Aug 16
Noble, Calaveras co., $6		July 1	July 29
Nevada, Nevada co., 50c		July 20	Aug 1
Napoleon, Calaveras co., $5		Aug 5	Aug 18
Napa, Alpine co., 60c		Aug 5	Aug 14*
New Hope, Lander co., Nev. $1		Aug 14	Sept 2
North Star, Lander co., Nev. $11		Aug 10	Aug 25
Nonpareil, Tuolumne co., $2		Aug 14	Aug 31
Ontario, Lander co., $1		July 18	Aug 4
Overman, Storey co., $50		Aug 2	Aug 18
Porter, Virginia, Nev. $5		Aug 19	Sept 2*
Potosi, Storey co., Nev., $25		July 31	Aug 14
Patricina & Dolores, Chihuahua, Mex., 50c		July 27	Aug 7
Petaluma M. & M. Co., Dividend of 5 ₱ cent			July 5
Paragon, Petroleum, Humboldt co., 30c		Aug 5	Aug 19*
Point Arena, Petroleum		Annual Meeting Aug 9	
Peninsular, San Antonio, L. Cal., $10		Aug 18	Aug 31
Rose, Mariposa co., 50c		July 22	Aug 5*
Rose, Mariposa co., 50c		July 8	July 22*
Refugio, Chihuahua, Mex., $2 50		July 20	Aug 3
Rose Linda, Alpine co., $3		Aug 6	Aug 16
Rochester Cons. San Bernardino co., $1.25		Aug 16	Aug 28
Sheba, Humboldt co., Nev., $25		Aug 19	Sept 2*
Smoky Valley, Smoky Valley dist. $1.50		Aug 12	Aug 30*
Southern Light, R. R. 50c		Aug 19	Sept 6*
Simpson M & M Co., Alpine co., 60c		Aug 12	Aug 26*
Sierra Nevada, Alpine co., 75c		Aug 12	Aug 26*
Savage,		Dividend, of $75	May 5
Santiago		Dividend May 17	
Spring Hill, Nevada co., $10		July 17	July 28
San Rafael, Lower Cal., 50c		July 29	Aug 15*
Sacramento & Meredith, Storey co., 50c		Aug 4	Aug 19
Sierra, Douglas co., Nev., $2		July 24	Aug 9
Shoshone, Lander co., Nev., $1		Aug 7	Aug 21
St. Paul, Lander co., 50c		Aug 5	Aug 22*
Santa Cruz, San Antonio, L. C. $2		Aug 8	Aug 21
San Francisco, Del Norte co., 30cts		July 31	Aug 12
Salambo, Tuolumne co., 75cts		July 19	Aug 5
Sweet Vengeance, Yuba co., $1		Aug 19	Sept 4
Silver Queen, Lander co., Nev		Sale July 31	
Table Mountain, Calaveras co., 50c		July 29	Aug 14*
Triunfo, San Antonio, $3		Aug 7	Aug 19
Tellurium, Amador co., $1		Aug 3	Aug 16
Tesoro & James River, Lander co., Nev. 50		July 14	Aug 1
Tecoripa, Sonora, Mex., $3.50		Aug 7	Aug 19
Teutonia Mt. Diablo, Contra Costa co		Sale July 27	
Tecoripa, Sonora, Mex		Annual Meeting Aug 3	
United States, Lander co		Meeting Aug 10	
Uncle Sam, Storey co., $50		Aug 2	Aug 18
Union Mattole Oil		Annual Meeting July 28	
Union, Sierra co		Annual Meeting Aug 14	
Vulcan, Lander co		Annual Meeting Aug 5*	
Vulcan, Lander co., 50c		July 22	Aug 5*
Ventana		June 3	Caution
Wisconsin, Alpine co $1		Aug 19	Sept 2*
Whitlach Yankee Blade, Lander co., $10		Aug 26	Sept 12*
Whitlach, Lander co., $7.50		Aug 7	Aug 22
Yosemite, Ore Fino dist., $1.25		Aug 5	Aug 19*
Yellow Jacket,		Dividend of $100	May
Yankee Blade, Lander co., Nev. $1		Aug 12	Aug 29

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST
OF CLAIMS IN
VIRGINIA AND GOLD HILL DISTRICTS.
CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Burning Moscow	July 11	20 00
Branch Mint	July 12	1 50
Central Hawkeye	July 10	3 00
Choilar	July 1	25 00
Globe	May 16	1 00
Hamilton	July 8	45
Hale & Norcross	July 7	25 00
Knickerbocker	July 7	1 00
Keystone	July 7	1 00
Lincoln	July 11	1 25
Minerva	July 1	1 00
Overman	June 10	100 00
Peck	June 7	50 00
Potosi	July 1	1 00
Sand Springs Salt Co	June 20	25 00
Sacramento & Meredith	July 4	6 00
Sides	July 18	50
Uncle Sam	July 3	10 00
Virginia & Truckee R R Co	July 15	50 00
Yolo	July 7	200 00
		1 00

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale.
Alhambra	July 21	San Francisco
Bullion	Aug 7	Virginia
Crystal Peak W D L M & M Co	July 15	Virginia
Cole	July 28	San Francisco
Chrystal Peak Coal Co	July 15	Virginia
Caledonia Tunnel	July 29	San Francisco
Gold Hill Tunneling Co	July 13	San Francisco
German	July 6	Gold Hill
Globe	July 15	Virginia
Golden Swan	Aug 7	Gold Hill
Keystone	Aug 3	Virginia
Mount Blanc	July 31	Virginia
Milton	July 15	Virginia
Mary Ann	Aug 12	Gold Hill
North America	July 17	Virginia
Napoleon Consolidated	Aug 7	Virginia
Opal	Aug 2	Virginia
Overman	Aug 18	Virginia
Peck	Aug 8	Gold Hill
Rock Island	July 22	Virginia
St. John	July 17	Virginia
Siegel	Aug 17	Virginia
Sides	July 20	Virginia
Tyler	July 17	Virginia
Yolo	Aug 1	Virginia

San Francisco Metal Market.

PRICES FOR INVOICES.

(Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1¼c ₱ lb; Sheet, polished, 3c ₱ lb, common, 1½@1¾c ₱ lb; Plate 1½c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2¼c ₱ lb.

Scotch and English Pig ₱ ton	—@40
American Pig ₱ ton	—@39
Refined Bar, bad assortment, ₱ lb	3 @—
Refined Bar, good assortment, ₱ lb	3½@—
Boiler No. 1 to 4	4 @ 4½
Plate No. 5 to 9	4½@—
Sheet No. 10 to 13	4 @—
Sheet No. 14 to 20	5 @—
Sheet No. 24 to 27	5½@—

COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb.

Sheathing ₱ lb	32 @—
Sheathing, Old	25 @—
Sheathing, Yell	32 @—
Sheathing, Old Yell	12 @—
Bolts	@—
Composition Nails	30 @32

TIN PLATES.—Duty: 2½c ₱ lb.

Plates, Charcoal, ₱ box	10 @11
Plates, I C Charcoal	9 @10¼
Roofing Plates	8 @ 9½
Banca Tin Slabs, ₱ lb	41 @42½

STEEL.—English Cast Steel, ₱ lb 12½@16

QUICKSILVER.—Per lb —@65

For export 55 @—

ZINC.—Sheets ₱ lb 9½@10

LEAD.—Pig ₱ lb 6½@—

Sheet	10 @—
Pipe	10 @—
Bar	9½@10

SANTA CLARA COLLEGE, S. J.,
SANTA CLARA, CAL.

Conducted by the Fathers of the Society of Jesus.

The FIFTEENTH ANNUAL SESSION of this College will commence on

Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months $350

For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco.
3v11 REV. A. MASNATA, S. J., President.

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

North America
LIFE INSURANCE CO.,
No. 240 Montgomery Street,
SAN FRANCISCO.

The Most Liberal Company
IN THE UNITED STATES.

All Policies Non-forfeitable and Indisputable.

No Extra Charge for Residing in the Territories, or for Traveling to and from the Eastern States.

J. A. EATON & CO.,
Managers of the the Pacific Branch.

Trades and Manufactures.

Pacific Glass Works
Are now prepared to execute orders for the manufacture of
All Kinds of Bottles to Order.
Office, No. 621 Clay street, San Francisco. 3v11-3m

EDWARD BOSQUI & CO.,
PRINTERS,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
No. 517 Clay street, between Clay and Sansome streets, SAN FRANCISCO. 24v10

GUSTAVUS MEYER,
(LATE MEYER & SEIFERTH)
Maker of Models for Inventors and Mining Tools.
MANUFACTURE Assayers' Scales, Weights, and all articles used by Assayers; Mathematical, Optical, and Mining Instruments repaired and adjusted; Patterns, Small Steam and Air Engines (of the newest construction), and Hydraulic Pressure Pumps, made to order.
No. 531 Market street, opposite Sansome, San Francisco. 21v9-tf

BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery and Sansome, San Francisco. 4v8-tf

JOHN DANIEL,
(SUCCESSOR TO O. GORI)
MARBLE WORKS,
No. 408 Pine st. bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs, Etc., On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco.
Barstow's Metallic Burial Caskets and Cases. 1tf

THEODORE KALLENBERG,
Maker of Models for Inventors.
MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
No. 418 Market street, San Francisco. n7-tf

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Penn.
JARVIS JEWETT, AGENT.
629 Washington Street, San Franc l. 10v8-1m

DENIS WHELAN,
Fashionable Boot Maker.
REPAIRING NEATLY DONE, AT SHORT NOTICE.
No. 17 Fourth Street,
Near Market street, San Francisco.
15v10-1m*

Wanted.
GOLD QUARTZ
Suitable For Cutting Jewelry,
By FRONTIER & DEVIERCY,
19v10-2m 437 Pine street, San Francisco.

THE MORNING LAND.—How consoling the ought that "After the night cometh the rning." When the hand of bereave- nt is laid heavily upon us, how anx- sly we turn our eyes upward to pierce shadows which intervene between us and fair Morning Land. When the spring bird rbles his sweet song in our ear, we pause look heaven ward, wondering if he bears to some glad tidings of our dear departed, and e has not seen the beauteous land where y have silently gone.

Where is that Morning Land? we some- es ask, when dark shadows obstruct the t which our immortal spirits crave. Where e they gone—the meek eyed ones who were light and joy of our homes? We list in rnful silence for the familiar footfall that r pleasantly greeted our ears, and, half for- ting, extend our arms to clasp anew the rished form. Blessed are they who live so r the angel-world that they can hear its sful echoes. Happy are they who see in ous the forms of the loved and true, and o can hear spirit voices sweeter than Bee- ven's richest symphonies.

There is such a thing as holding communion n God and the blessed ones who have c through the golden gates which have elessly closed upon them as they entered Morning Land. They are there, while we left to struggle a little longer—left to sm l w more times, as sunbeams illumine our quered pathway—left to weep over the es- gements of those we have loved, and lelt ealize that benificent joy which comes from veet assurance that they who dwell in the rning Land love us still.

ACTION OF PETROLEUM ON THE HUMAN SYS- .—Landerer relates the case of a man who llowed a quantity of petroleum; the greater he vomited again. It caused a strong ning sensation in the tongue and throat, ch were reddened and became swollen. stomach and bowels also became affected, slight gastro-enteritis ensued. For sev- days the urine and sweat smelt strongly of oils, and the odor was specially strong er the arm-pits. The patient was very k for a time, but recovered.—*Chem. Cen- Blatt.*

WHILE strawberries are in bloom is the time xamine the beds and eject such as are val- ess. Those which are termed male plants, staminate, do not usually produce any or very little fruit, and their number should be over one in ten to fifteen of female nts.

BLASTING

POWDER.

DWARD H. PARKER,

No. 224 California Street,

Agent of the

zard Powder Company.

EUREKA

TENT BLASTING POWDER.

Price $3.50 Per Keg.

, southeast corner Battery and Commercial streets.
koom No. 9, with San Francisco Chemical Works,

AS. A. JAMES.....AGENT

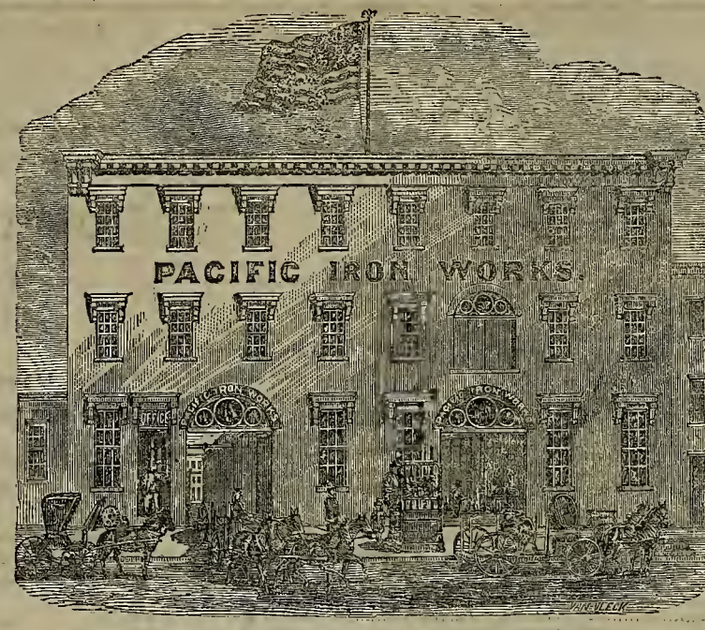
underground blasting in Tunnels, Mines, etc., this er possesses very great advantage—on account of it out scarcely any smoke after the blast. By using me quantity in bulk as the gun blasting powder, you ce a much greater effect. 2v11qy

PREMIUMS.

Premium, at Sacramento Fair.....1862
Premium, at S. F. Bay District....1862
Premium at Sacramento.....1863
Premium, at San Francisco.....1864
Premium, for Cordials.....1864
Premium, for Hygienic Bitters....1864

Awarded to

V. SQUARZA.



THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting machinery of the most approved construction, Flour, Saw and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Creeno Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully solicited.

GODDARD & COMPANY.

Machinists and Foundries.

FULTON

FOUNDRY AND IRON WORKS.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

MINERS' FOUNDRY

—AND—

MACHINE WORKS,

First St., between Howard and Folsom Streets,

SAN FRANCISCO.

EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as

Steam Engines and Boilers, Flour, Saw and Quartz Mills,

Machinery, Mining Pumps, Amalgamators,

Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

☞ Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.

All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.

tf HOWLAND, ANGEL & KING.

JOHN LOCHHEAD'S

STEAM ENGINE WORKS,

Beale Street, near Mission Street,

SAN FRANCISCO.

Steam Engines of every description built to order—Marine, Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer.

JOHN F. GALLAGHER. JOSEPH WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to. Prices moderate.—☜ No. 129 First street, opposite Minna, next door to Pacific Foundry. 2tf

Removed from Oregon street, between Front and Davis.]

Vulcan Iron Works Company

[ESTABLISHED 1850.]

First, Natoma and Fremont Streets.

IRON FOUNDERS,

Steam Engine and Locomotive

BUILDERS,

Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as

Mining, Steamship, and Steamboat Machinery,

Railroad Machinery, Locomotives, Car Trucks, Car Wheels, Housings and Irons; and Flouring Mills, Quartz Mills, Sugar Mills, Saw Mills,

Manufacturing Machinery of Every Kind.

Sole Manufacturers of

HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR

BETH'S AMALGAMATOR;

HERSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;

BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;

FAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;

JONVAL'S IMPROVED WATER WHEEL;

STEVEN'S PISTON PACKING RINGS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.

Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, San Francisco. qy29-t

GEORGE T. PRACY,

Machinist and Blacksmith.

STEAM ENGINE, FLOUR AND SAW MILL

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

qy-3 SAN FRANCISCO.

LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality. Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.

UNION IRON WORKS!

Corner First and Mission streets,

SAN FRANCISCO.

ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Bay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.

Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter.

Boilers.

Locomotive, Flue, Tubular, Upright, Cylinder and Cornish.

Amalgamating Machinery.

Wheeler & Randall's Improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Belden's pan, Veatch's tubs, Prater's concentrators, Wahlee's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills, Coleman's Crushers, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

Quartz Screens.

We are prepared to furnish both punch and slotted, from the finest to the coarsest numbers, of the best quality Russia Iron.

All work done in the best manner at the lowest cash prices.

21v10 H. J. BOOTH & CO.

PALMER, KNOX & CO.,

Golden State Iron Works,

Nos. 19, 21, 23 and 25 First Street,

SAN FRANCISCO.

MANUFACTURE ALL KINDS OF

MACHINERY,

STEAM ENGINES AND QUARTZ MILLS,

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S

NEW GRINDER AND AMALGAMATOR,

HEPBURN & PETERSON'S

AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies.

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

IDAHO MACHINE SHOP

—AND—

IRON WORKS,

D. C. HALL.....PROPRIETOR.

No. 9 First Street, San Francisco.

MANUFACTURE TO ORDER

STEAM ENGINES, BOILERS,

FLOUR AND SAW MILLS,

And every description of Machinery, including

ALL KINDS OF BRASS AND IRON WORK

Adapted to every department of Mining and Mechanics.

N. B.—The manufacture of QUARTZ MILLS are made a specialty, and all work done at the above Works guaranteed of the best material and workmanship.

☞ DON'T MISTAKE THE PLACE.

13v10 No. 9 First street, San Francisco.

UNION IRON WORKS,

Sacramento.

WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Front Street, between N and O streets,

6v40 SACRAMENTO CITY.

NOVELTY IRON WORKS,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY*. Send for a Circular.

E. T. STEEN.

39 and 41 Fremont, and 42 and 44 Beale Sts.,

SAN FRANCISCO 21v9tfq

HE ORIGIN OF THE WEEPING WILLOW.—
Arabian legend of the origin of the weep-
willow is curious, but contains, like most
litions, an anachronism, if we accept the
ows of Babylon as the weeping willow, but
Arabians are much better *racontcurs* than
anists; so it will not do to apply too severe
ientific test to their accuracy. The legend
s that after David had married Bathsheba,
was one day playing on his harp in his pri-
e chamber, when he found two strangers
osite to him, although he had given strict
ers that no one should intrude upon his pri-
y. These strangers were angels who con-
ted him of his crime in nearly the same
nner as is related in holy writ. David then
ognized in the strangers the angels of the
d, and was sensible of the heinousness of
offence. Forthwith he threw himself on
floor and shed tears of bitter repentance;
re he lay upon his face for forty days and
y nights, weeping and trembling before the
gment of the Lord. As many tears of re-
tance as the whole human race have shed
will shed on account of their sins from the
e of David till the judgment day, so many
David weep in those forty days, all the
e moaning forth penitential psalms. The
s from his eyes formed two streams which
from the closet into the ante-room and
nce into the garden. Where they sank
the ground, there sprang up two trees, the
ping willow and the frankincense tree: the
weeps and moans, and the second incess-
ly sheds big tears in memory of the sincere
entance of David.

MINING LAWS AND FORMS.

Third Edition revised and enlarged.

Compiled by H. B. CONGDON.

IS Edition contains all the laws of the *STATE OF CAL RNIA* and *NEVADA TERRITORY*, relative to Mining orations together with the Mining Ordinances of Mex- complete; Digest of Decisions of the Supreme Court; ns etc. 16 mo. flexible cloth, 192 pp. $2.50.

Published by H. H. BANCROFT & CO.

REMOVAL!

R. WEGENER,

ccountant and Mining Secretary,

Has removed to

No. 415 Montgomery Street—west side,

Between Sacramento and California sts.,

10 SAN FRANCISCO.

NEW YORK PRICES.

C. E. COLLINS,

No. 602 Montgomery street, San Francisco.

EXCLUSIVE AGENT

—FOR THE—

AMERICAN WATCH FACTORY.

A large assortment of these

Superior Watches,

In Gold and Silver Cases,

Constantly on hand, and sold at Factory prices. Also,

ENGLISH AND SWISS WATCHES,

Imported directly from the Manufacturers.

The American Company are now making

VERY FINE WATCHES FOR LADIES.

☞ A large assortment of Gold Chains and Jewelry. 25v10-6m

WATCH REPAIRING AT NEW YORK PRICES.

NEW YORK PRICES.

LEHIGH COAL.

00 Tons Large Lump Lehigh Coal

Now on Hand.

I am also in constant receipt of

LEHIGH COAL,

And will be able to supply it always

At the Lowest Market Price.

JAMES R. DOYLE,

Dv10-3m Pacific Coal Yard, 413 and 418 Pacific street.

NOTICE TO MINERS.

THE UNDERSIGNED WILL SELL

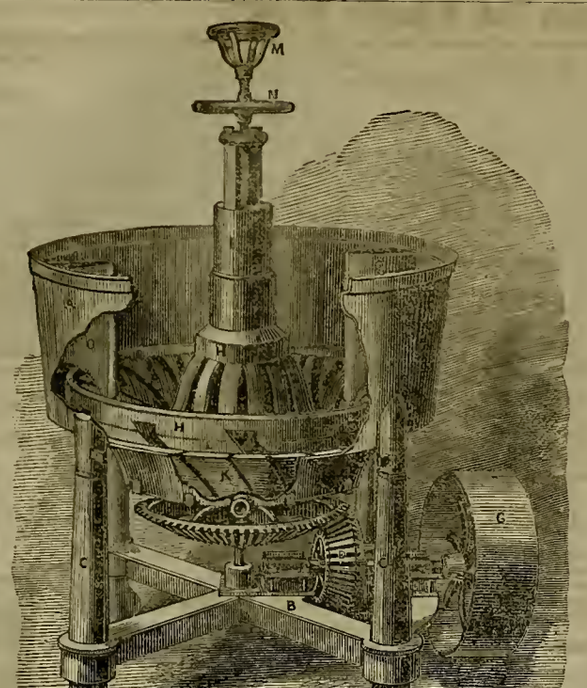
MINING STOCK

ncorporated Companies and Unincorporated Mines, in n Francisco District and in El Dorado District, Arizona ritory. It is confidently asserted and believed by most ctical miners that Arizona is the richest mining coun- in the world. Recent developments of these mines are w attracting the attention of capitalists, who have al- dy erected several mills, and more are going there soon. w is the time to invest to advantage, and obtain the rise t must soon follow. Those wishing to purchase soon do so on most liberal terms, by calling on MR. ROD- Y CLARK, 338 Montgomery street (room No. 11), San ancisco, or on H. C. SKINNER, San Jose, California. H. S.—Freight all the way by water at a cost of 4½ cents pound.

H. C. SKINNER,

San Jose, California.

an Francisco, April 27, 1865. 17v10



THE

WHEELER & RANDALL
Grinder and Amalgamator.

In the engraving herewith exhibited, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Plates.

The attention of the Public is respectfully called to these facts:

1st. That the Mechanical work accomplished by differently formed grinding plates, having the same diameter, weight, hardness, and revolving at the same velocity, is as follows, to wit:

The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory-formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

2d. That as a whole, the Wheeler & Randall Grinder and Amalgamator is one of the most simple, compact, substantial, convenient and efficient pans in use.

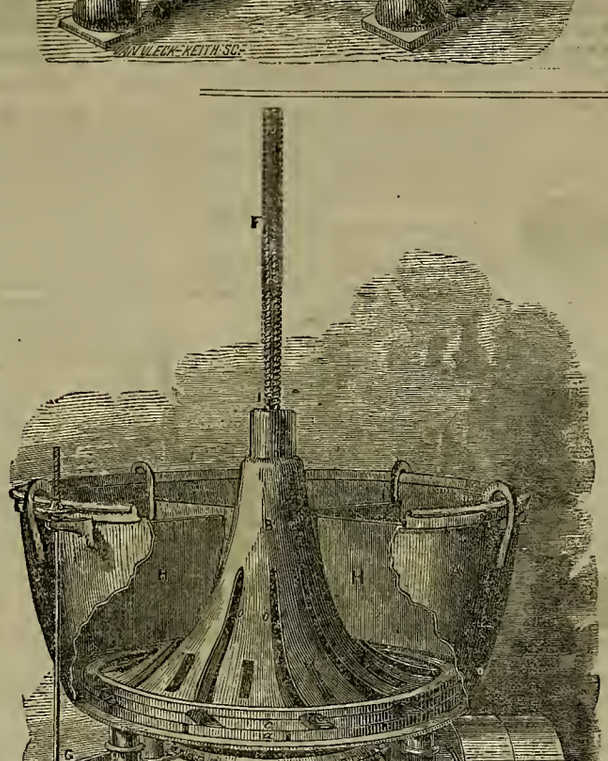
☞ Patent applied for.

MANUFACTURED AT

GOLDEN STATE IRON WORKS.....San Francisco.
UNION IRON WORKS..... "
MINERS' FOUNDRY..... "
SAN FRANCISCO FOUNDRY..... "
PRESCOTT & SCHEIDEL.....Marysville.
OREGON IRON WORKS.....Portland, Oregon.

WHEELER & RANDALL, Inventors.

SAN FRANCISCO, JUNE 13, 1865.



THE EXCELSIOR
GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings.

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity, "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been furnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

Union Iron Works and Golden State Iron Works,

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.

SAN FRANCISCO

CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at **TUBBS & CO.'S,**

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14v10

QUICKSILVER

FOR SALE BY

S. F. BUTTERWORTH,

Northwest cor. Battery and California sts.

v9-19 SAN FRANCISCO.

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSIT ON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery, or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street, above First (opposite the Oriental Hotel), San Francisco

25v10

WE ARE NOW OFFERING OUR IMMENSE STOCK

—OF—

FINE CUSTOM MADE CLOTHING

—AND—

Gents' Furnishing Goods

AT PRICES THAT DEFY COMPETITION.

Our Stock of Clothing Consists of

ALL THE LATEST STYLES

BOTH OF MATERIAL AND FINISH.

A Large Assortment of

Trunks, Valises, Carpet Bags, Blankets, Etc.

AT EXTREMELY LOW PRICES.

J. R. MEAD & CO.,

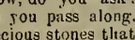
8v10 Cor. of Washington and Sansome streets.

Let it be Known.—When any of our readers respond (by letters of inquiry or by the purchase of articles) to advertisements found in our columns, they will confer a favor, not only upon us, but upon the advertiser, by mentioning the fact of having seen the notice in our paper

MORE PRECIOUS THAN RUBIES.—Would it not please you to pick up strings of pearls, of gold, diamonds and precious stones, as you pass along the street? It would make you feel happy for a mouth to come. Such happiness you can give to others. How, do you ask? By dropping sweet words as you pass along. These are true pearls and precious stones that can never be lost; of which none can deprive you Speak to that orphan child; see the pearls drop from her cheeks. Take the hand of the friendless boy; bright diamonds flash in his eyes. Smile on the sad and dejected; a joy diffuses his cheek more brillant than the most precious stones. By the wayside, amid the city's din, and at the fireside of the poor, drop words and smiles of cheer and bliss. You will feel happier when resting on your pillow at the close of the day, than if you had picked up a score of perishing jewels. The latter fade and crumble in time; the former grow brighter with age, and produce happier reflections forever.

Pacific Mail Steamship Co.

The following Steamships will be dispatched on the following named days.



August 3d—COLORADO.....Capt. ——
August 18th—SACRAMENTO.....Capt. E. S. Farnsworth

From Folsom street Wharf

At 11 o'clock A. M., punctually to the hour,

For Panama.

Passengers will be conveyed from Panama to Asplnwall by the Panama Railroad Company, and from Asplnwall to New York by the Atlantic and Pacific Steamship Company.

A Baggage Master will be sent through each trip.

Cabin passengers will be berthed for Atlantic steamer.

OLIVER ELDRIDGE, Agent.

Corner Sacramento and Leidesdorff sts.

Machinery.

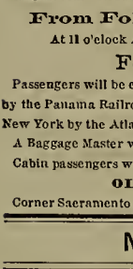
ATTENTION, MINERS!

LINSCOTT'S PATENT CHAMBER DRILL.

Great Improving in Blasting.

W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.



D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ⅜ inch thick, holding the cutters in place and allowing them to slide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

McCOMB'S CUMULATIVE POWER PRESS AND ARROW TIE.

E. C McCOMB, Agent.

No. 1 Government House, cor. Sansome and Washington sts. 23v10 3m

NOTICE.

The undersigned having purchased the EXCLUSIVE RIGHT in and for the State of California, for the

Manufacture and Sale of

WINHAM'S

PATENT HOSE COUPLING,

Hereby caution all parties against the manufacture or purchase of the above Hose Couplings, except through us, as any infringement will be prosecuted to the full extent of the law.

PRESCOTT & SCHEIDEL,

Marysville Foundry.

March 31st, 1865. 13v10-3m

HANSCOM'S CRUSHERS,

Made in sizes suitable for Breaking Quartz for Batteries; Rock for macadamizing or concrete; Copper Ore for sacking, sampling, or concentrating; also, for crushing Quartz for Arastras and Grinders. The small sizes make a most efficient Crusher for Prospectors, and are arranged to be run by Hand, Horse, Water, or Steam Power. For further information address W. W. HANSCOM.

1 Golden State Iron Works, San Francisco.

THE HAMMER QUARTZ MILL.

[PATENT APPLIED FOR.]

This Machine is now complete and ready for sale. In constructing it, our aim has been to produce a light, cheap and economical Crusher—one adapted to mining on a small as well as on a large scale.

The elementary principle on which it operates is that of the stamp—the only one really reliable and economical.

But the stamp has many serious disadvantages, among which are its great weight and small velocity; the great power required to run it; difficulty in feeding properly; imperfect discharge, and the necessity of crushing wet, or the annoyance from dust in crushing dry.

All these difficulties are obviated in our machine, and the percussive blow of the stamp retained, with the further advantage of its being a drawing or grinding one.

We give to our hammers such absolute or relative weight and velocity as we choose—just such as to effect their purpose and no more—thus securing the qualities of the natural hammer blow.

The feed is self-adjusting and uniform, and as fast as the ore reaches the required degree of fineness (which depends upon the fineness of the screen or sieve used), it is instantly discharged, so that there is no packing of the ore under the hammers.

The mill crushes dry, with no more dust than that incident to feeding, which is trifling.

As the only support of the mortar is a single post set into the ground, the machine can be put in place at slight expense.

The size now being built weighs about 1,800 pounds complete; the heaviest piece not weighing over 275 pounds. It is driven by half a horse-power, and crushes from three to ten tons per day of twenty-four hours per day, according to the character of the rock and the fineness to which it is reduced.

PRICE,.....$800.

Larger ones will be furnished if desired.

We invite an inspection of the Mill now in operation adjoining the Foundry of DEVOE, DINSMORE & CO., on Fremont street, between Market and Mission, San Francisco.

Office, No. 11 Court Block, San Francisco, Cal.

21v10 **RIX & LOGAN.**

ATWOOD'S Self-Regulating Windmill.

This Windmill is the most perfect self-regulator yet invented, and is capable of being adjusted to any desired speed. Manufactured at

222 Mission Street, North side, below Beale,
SAN FRANCISCO.

N. B.—We also manufacture DICKERSON'S SELF-REGULATING MILLS; also, Rotary and Stationary Mills of different styles and prices, varying from $50 to $500 each; also round and square Water Tanks made to order.

222 Mission street, below Beale. 5

HUNT'S IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN

HORSE POWER

For Sawing Wood.

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,

No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

HUNT'S PATENT Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,

7v10 28 Second street, San Francisco.

SALMON'S PROPELLER AMALGAMATOR.

The proprietors and inventors of this machine, after fourteen years of practical experience in mining in California and Nevada Territory, and having a thorough knowledge of the wants of Miners and Mill men, have succeeded in making an Amalgamator, which, for the purposes intended, far surpasses any other yet presented to the public, and which can be furnished at less than one-half of the expense of any other Amalgamator, now in use, besides requiring less labor to clean and keep it in running order. The Amalgamator is simple in its construction, consisting of a pan or tub constructed of wood and adapted to either a Stone or Iron bottom. Opposite each other, and on the inside of the tub, are two flanges, from two to four inches broad, reaching from the top to near the bottom, with room for the mullers to pass under. These flanges are for the purpose of preventing the pulp from forming a circular current, and together with a number of wings placed like a screw propeller on the muller-shaft, force a current continually on the quicksilver at the bottom and under the grinding surface of the mullers. This peculiarity of propeller screw and side wings, in combination with a deep tub, are what the proprietors claim as new and for which a patent has been applied for. The undersigned are now manufacturing three different sizes of this machine, and the attention of the public is respectfully called to the following results obtained from the working of Reese River rock, by this amalgamator, and assayed by Miller & Limbaum, at Austin, Nevada:

No.	Fine	No.	Fine
Assay.....250	948	Assay 300	990
Assay.....85	941	Assay for Chatman	980
Assay.....286	940	Assay Water Rock	966
Assay.....191	950	Assay Water Rock	998
Assay.....	St. Helena Ledge, W. D.		966

These, including a hundred other batches, were all worked to within fifteen per cent., and some to within ten per cent., of the assay. Parties interested will find it to their advantage to call and see the above machine in operation.

Manufactured at the San Francisco Foundry, San Francisco, California, by

J. & W. C. SALMON,

To whom all orders should be addressed. 15

TO QUARTZ MINERS.

Hinkle's Centrifugal Pulverizer and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUGAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steen, Nos. 37 & 39 Fremont street, between Market and Mission streets.

This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine, made entirely of Iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

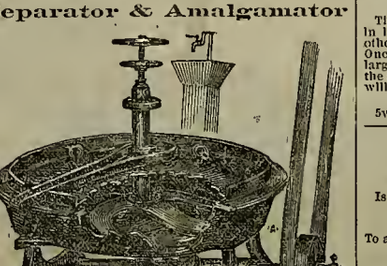
Mr. Hanson, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 60 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to

PHILIP HINKLE,

At the Novelty Iron Works, Nos. 37 & 39 Fremont street. 15-1m

BAUX & GUIOD'S Separator & Amalgamator



Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine Scientific Knowledge with Practical Experience, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgamators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; its small cost; its portability; The large quantity of pulp it can operate upon in a given time; it may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

Lapidaries' refuse, Refiners' ashes, Jewelers' sweepings, purchased or worked for a percentage. Ores and tailings worked or assayed at reasonable rates.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Hough & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,

Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8

FARRAND'S Oscillating Amalgamator,

RECEIVED THE

ONLY PREMIUM

AWARDED FOR AMALGAMATORS

At the Recent Industrial Fair

OF THE

Mechanics' Institute of San Francisco.

Committees of Awards.

O. BELDEN, W. T. GARRATT, H. P. WAKELEE,
O. GORI, OKO. JOHNSON, C. M. RADCLIFF.

This Premium Amalgamator was placed on trial, at the Mechanics' Pavilion, with the Varney, Wheeler & Randall, and Hepburn & Peterson Pan, each working eight hundred pounds of crushed rock.

This Unrivaled Amalgamator possesses many advantages over all others now in use.

1st. It is capable of doing double the amount of work of the ordinary Pans, at a saving of more than one-half of the power.

2d. It reduces the pulp finer, thereby producing a better result.

3d. It requires less quicksilver by one-half at a charge, whilst the loss by trituration is comparatively nothing.

4th. As an Amalgamator of gold contained in sulphurets as also for very fine or flour gold, it has no equal.

5th. This Amalgamator involves no complicated machinery, and is less liable to get out of order than any of the pans.

Manufactured at the MINERS' FOUNDRY.

W. D. FARRAND, Inventor,

R. L. OGDEN, Agent, SAN FRANCISCO.

S. E. corner Montgomery and California streets.

19v9

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Crocodile Quartz Crusher; his Pulverizer; and his Improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

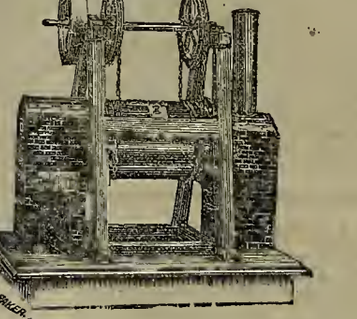
B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast, amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, **B. FAUCHERY,**
Metallurgist. **Engineer,**

24v9

WM. BRUCKNER'S Furnace for Roasting Ores.



Now in Operation at 416 Market street.

This Furnace, which is portable, and can be carried on muleback, undertakes to roast without employing any labor whatever for the operation of stirring, which is accomplished by machinery that may be driven by steam or any other motor. It consists of an iron cylinder, which, being suspended by chains, in rotating mixes and stirs the ore, by an internal apparatus, quicker and more perfectly than can be done in any other furnace hitherto known in metallurgy. It can be applied to any kind of ore, and the rapidity and perfectedness of its operation, the great saving in fuel, and the entire saving of the labor usually required for stirring the ore, together with the small cost of constructing it, renders this furnace a most

Economical and Practical Invention.

The Furnace may be had of two sizes—one being nine feet in length and holding fourteen hundred pounds, and the other six feet in length, and holding eight hundred pounds. One horse power is required to drive the machinery of the larger sized furnace, and three-fourths of a horse-power for the smaller size. Parties wishing to erect such furnaces will please communicate to

W. BRUCKNER,

5v10 No. 416 Market street, San Francisco.

BLAKE'S QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA,
WASHOE,
ENGLAND, FRANCE,
AND
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned.

Address,

BLAKE & TYLER,

Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.

4v10

VARNEY'S PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setters made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setters for themselves, at the **PACIFIC FOUNDRY,**

1v10 San Francisco.

Hepburn & Peterson's AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th.

[Illustrated in the Mining and Scientific Press, April 9th, 1864.] HEPBURN & PETERSON.

nov8 3m

Professional Cards.

Our Patent Agency.

The PATENT AGENCY of the MINING AND SCIENTIFIC PRESS has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of LETTERS PATENT from the United States and foreign Governments cannot be over-rated, and the Proprietors of the PRESS, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

WM. L. DUNCAN,
Stock Broker,
No. 605 Montgomery Street, San Francisco.

Mining Shares and Legal Tender Notes bought and sold strictly on commission. Liberal cash advances made on stocks consigned for sale. 1v11-3m

S. C. BUGBEE & SON,
ARCHITECTS.
DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.
74 and 75 Montgomery Block,
SAN FRANCISCO. 25v10-3m

DR. H. AUSTIN,
DENTIST,
No. 634 Washington Street,
Between Montgomery and Kearny Streets,
[OVER SAN FRANCISCO BATHS]
SAN FRANCISCO. 20v10-qy

To Mining Companies.

A gentleman who has had many years experience in Mining Superintendence, wishes employment in a first-class mine as Superintendent. The most satisfactory references given. Enquire at this office. 16v10-tf

N. LOMBARD INGOLS,
Accountant and General Factor,
No. 32 Montgomery Block.
Address, Box 2123, Postoffice, San Francisco. 9v10

A. S. EDWARDS. JAMES N. OLNEY.
EDWARDS, OLNEY & CO.,
Real Estate, Stock, and General
Auction & Commission House,
No. 626 Montgomery Street, Montgomery Block.
JAMES N. OLNEY—Auctioneer.

SECRETARIES of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

AUGUST KUNAST,
Stock Broker,
Member of the
San Francisco Stock and Exchange Board,
Buys and Sells Stocks, Bonds, Etc.
Office, No. 540 Washington Street, San Francisco. 2v10

G. F. DEETKEN,
Mining Engineer and Metallurgist,
Address - - - - - San Francisco. 25v9

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for the State of Nevada and the Territory of Arizona,
AND FOR THE
STATES OF MASSACHUSETTS AND MAINE.
Office, Montgomery Block, 625 Montgomery Street,
10v8-2m SAN FRANCISCO.

FREDERICK MANSELL.
Mechanical & Architectural Draughtsman,
No. 422 California street, corner of Leidsdorff.

Drawings of MODELS made for parties applying for patents at Washington or London. mar23-tf.

GEORGE H. BAKER,
Lithographer & Engraver,
No. 522 Montgomery St., San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

SHERMAN DAY,
Mining Engineer,
No. 56 Montgomery Block, San Francisco,
Will examine, survey and report upon mines, and consult and advise concerning investments in mining property, or the machinery management and expenditures of mines.
22q*

LEANDER RANSOM,
Civil Engineer and Surveyor,
Having been connected with the public works of the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also STATE LOCATING AGENT, and as such having the sale of
600,000 Acres of State School Lands,
At the low price of $1.25 per Acre. Terms: Twenty per cent in cash and the balance on a credit of several years.
7v9-tf Office, 328 Montgomery street.

Our Advertising Circular Will be furnished free on application to this office. Its contents are as follows.
Corporation Assessment Law of California.
Economy in Mining Advertising.
Table for Advertising Assessments on Saturdays.
Calendar for 1865-1866.
Information about Obtaining Patents.
Table of Distances on the Pacific Coast.

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

New Mining Advertisements.

Continued Mining Advertisements will be found on other pages.

Camargo (Eclipse) Gold and Silver Mining Company, Reese River Mining District, Lander Co., Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 17th day of July, 1865, an assessment of five ($5) dollars per share, in United States Legal Tender Notes, was levied upon the capital stock of said Company, payable at once, to the Secretary, at his office, or to W. B. C. HARKER, Superintendent, at Austin, Nevada.

Any stock upon which said assessment shall remain unpaid on the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 6th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale.

WM. T. REYNOLDS, Secretary.
Office, 423 Front street, San Francisco. jy22

El Dorado Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 5th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Avery, J W	132	50	$36 00
Addison, J H	159	5	3 50
Adams, I S	214	10	7 00
Baker, C	112	5	3 50
Brown, I S	103	10	7 00
Bartlett, S A	107 108 105 100		
	110 62 63 61 65 5 ea	45	45 00
Bartlett, S A	60 61 10 ea	20	20 00
Bartlett, S A	not issued and		
	66 57 68 69 20 ea	100	100 00
Bartlett, S A	70	22	22 00
Bartlett, J A	155	10	10 00
Budington, W	210	25	25 00
Curran, B	150	10	bal 2 00
Castle, Mrs M J	213	10	bal 2 00
Conger, Thomas	154	125	87 50
Collins, G L	33 34 30 25 ea	55	37 00
Cooper, Frank	1 2 3 4		
	135 139 140 141 5 ea	40	40 00
Cooper, Frank	5 7 6 10 ea	30	30 00
Cooper, Frank	9 9 10 11 20 ea	80	60 00
Cooper, Frank	12	30	30 00
Cooper, A S	20	10	10 00
Cooper, A S	21 22 20 ea	40	40 00
Cooper, A S	23 24 25 ea	50	50 00
Cooper, A S	25 26 50 ea	100	100 00
Davis, S H	175	5	3 50
Dougherty, Phebe	189 190		
	191 192 10 ea	40	28 00
Dougherly, Ezra	195	10	7 00
Eigler, Wm C	205	5	3 50
Ford, R H	45	25	21 00
Fisher, B C	147	5	3 50
French, L E	160	5	3 50
Felker, W	211	5	3 50
Gardner, C A	143	10	2 00
Goodwin, Mrs R J	216	10	2 00
Gray, John	196	50	35 00
Gray, John	199	25	17 50
Gray, John	200 201 202		
	203 204 10 ea	50	35 00
Gould, A J	167 168 25 ea	50	35 00
Hill, John	171 172 173 50 ea	150	140 00
Houston, G D	150	6⅔	4 70
Hall, E	163	10	7 00
Irving, David	163	2	1 40
Liddy, Catherine	71	10	2 00
Larson, Henry	164	10	7 00
Morgan, Benj	74	10	7 00
McMillin, Robert	100	5	3 50
Mason, A	161	5	3 50
Miller, F S	165	3	3 00
McPyke, H W	162	10	7 00
Otis, G H	156	2	2 00
Otis, G H	177 176 179 1 ea	3	3 00
Parsons, G H	70 152 5 ea	10	7 50
Porter, F F	174	25	17 50
Preston, J H	212	5	3 50
Scott, H D	120	5	4 50
Scott, H D	17	15	13 50
Scott, H D	13 14 18 25 ea	75	67 50
Staples, A F	102	5	1 00
Scott, Wm	148	5	3 50
Sinclare, A	151	3½	2 35
Swinerton, D E	217	3	60
Sutherland, John	136	5	2 75
Sutherland, John	not issued		
	and 115 117 10 ea	20	15 50
Treat, D W	76	50	39 00
Treat, D W	82 83 65 65 67		
	66 60 90 91 and not issued 10 ea	100	90 00
Tomson, S W	126	10	7 00
Thoburn, Thomas	129	10	7 00
Toleman, O G	101	5	1 00
Victory, John	130	10	7 00
Victory Eliza E	187	2	1 40
Victory, Louisa	183	2	1 40
Victory, John J	185	2	1 40
Victory, Louisa M	186	2	1 40
Walsworth, Frank	27 31 25 ea	59	50 00
Wadsworth, Frank	30	15	12 45
Wadsworth, Frank	153	20	16 75
Whitton, R J	131	10	10 00
Whitton, M S	134	10	3 00
Whitton, Wm H	136	10	10 00
Weir, James	151	5	3 50
Wait, George	156	10	7 00
Waterman, E R	176	5	3 50
Wood, A B	209	5	3 50
Winn, M	197	10	7 00
Young, Henry	208	5	3 50

And in accordance with law and an order of the Board of Trustees, made on the 5th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the office of Edwards, Olney & Co., No. 526 Montgomery street, San Francisco, Cal., on the 7th day of August, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. WARREN CLARK, Secretary.
Office, 410 Montgomery street, San Francisco. jy22

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

Dividend Notice—Golden Rule Mining Company.—At a meeting of the Board of Trustees of the Golden Rule Mining Company, held this day, a dividend was declared, payable on the twentieth inst., at the office of the company, No. 622 Montgomery street.

jy22 J. B. RUSSELL, Secretary.

Office of the Globe Gold and Silver Mining Company, San Francisco.—Location: Monitor Mining District, Alpine county, California.

NOTICE.—There will be an Annual Meeting of the stockholders of the Globe Gold and Silver Mining Company, at the office of said Company, 410 Montgomery street, in the city and county of San Francisco, on the 21st day of August, 1865, at 2 o'clock P. M., for the purpose of electing Trustees and for the transaction of such other business as may be brought before the stockholders.

I. EVI MILLER, President.
WM. HA NAH,
jy22-4w J. S. POWERS, } Trustees.

Honest Miner Gold and Silver Mining Company, Reese River Mining District, Lander Co., Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of July, 1865, an assessment (No. 5) of fifty cents per share was levied on the 22d day of July, 1865, upon the capital stock of said Company, payable immediately, in gold coin of the United States, to the Secretary, at his office, No. 228 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 12th day of September, 1865, at 3 o'clock P. M., to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. A. DRINKHOUSE, Secretary.
Office, 228 Front street, San Francisco, Cal. jy2

Jewett Gold and Silver Mining Company.—Location of Works, at Gold Hill, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of July, 1865, an assessment of one dollar per share was levied upon the assessable capital stock of said Company, payable on the 22d day of July, 1865, in United States gold coin, to the Secretary, at the office of the Company, 509 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. M. BURNHAM, Secretary *pro tem.*
Office, 509 Clay street, San Francisco. jy22

Porter Gold and Silver Mining Company, Virginia District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of July, 1865, an assessment of five dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at 534 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. W. WESTON, Secretary.
Office, 534 Clay street, San Francisco. jy22

Rose Gold Mining Company, Mariposa County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 6th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
A Buetell	103	8	$4 00
Chas P Cowles	114	150	75 00
F L Hall	126	5	2 50
I C Pray	100	10	5 00
I C Pray	144	50	25 00
W E Quinby	141	20	10 00
M S Taylor	131	41	20 50

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of June, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Edwards, Olney & Co., No. 526 Montgomery street, San Francisco, on the 5th day of August, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. M. PECK, Secretary.
Office, 336 Montgomery street, San Francisco. jy22

Sheba Gold and Silver Mining Company, Star District, Humboldt county, Nevada.—Office, 712 Montgomery street, San Francisco, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 6th day of May, 1865, an assessment of five dollars, and on March 14th, 1865, an assessment of five dollars, and on November 25th, 1864, an assessment of fifteen dollars per share, was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company

Any stock upon which said assessments, or either of them, shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessments, or either of them, together with costs of advertising and expenses of sale. By order of the Board of Trustees, made on the 17th day of July, 1865.

S. T. KING, Secretary.
Office, 712 Montgomery street, San Francisco.

NOTICE.—The Board of Trustees of the Sheba Gold and Silver Mining Company, having been legally advised that the second postponement of sale of stock delinquent for above assessments, made on July 5th, 1865, was unauthorized by law, have ordered the publication to be begun anew, as above. (jy22) S. T. KING, Secretary.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible.

Whitlach Yankee Blade Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22d day of July, 1865, an assessment of ten dollars per share was levied upon the capital stock of said company, payable immediately, in United States currency, to the Secretary, 402 Front street (up stairs), San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 12th day of September, 1865, to pay the delinquent assessment thereon, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.
Office, 402 Front street (up stairs), San Francisco. jy22

Wisconsin Gold and Silver Mining Company, Silver Mountain District, Alpine county, California. ASSESSMENT No. 4.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of July, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the company, or to R. H. FORD, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.
Office, No. 410 Montgomery street, San Francisco.

NOTICE.—At the above meeting, assessment No. 1, of 8 cents, levied July 6th, 1863, assessment No. 2, of 10 cents, levied September 19th, 1863, and assessment No. 3, of 50 cents per share, levied June 3d, 1864, were rescinded, and stockholders having paid the same, or any portion, will be credited on above assessment, No 4 accordingly.

jy22 J. WARREN CLARK, Secretary.

Vulcan Mining Company, Santa Fe Mining District, Lander county, Nevada.

NOTICE.—There are delinquent, upon the following described Stock, on account of Assessment levied on the 5th day of August, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
I C Bateman	102	5	$2 50
I C Bateman	103	5	2 50
I C Bateman	105	5	2 50
I C Bateman	106	10	5 00
I C Bateman	107	10	5 00
H Bordas	134	10	5 00
Wm M Davis	125	10	5 00
Wm M Davis	124	10	5 00
Wm M Davis	127	25	12 50
Wm M Davis	129	25	12 50
D H Hall	40	50	25 00
D H Hall	42	50	25 00
D H Hall	43	50	25 00
D H Hall	44	50	25 00
J F Morrison	156	10	5 00
J F Morrison	157	10	5 00
J F Morrison	158	10	5 00
J F Morrison	159	10	5 00
J F Morrison	180	10	5 00
A McMath	142	25	12 50
Quintin Ribo	115	10	5 00
Cornelius Smith	123	25	12 50
John R Stone	153	5	2 50
James P Wade	89	18	9 00
James P Wade	90	18	9 00
James P Wade	91	10	5 00
James P Wade	186	14	7 00
Ellen Wade	155	10	5 00
Geo H Willard	53	34	17 00
Geo H Willard	56	33	16 50
W M Williamson	141	5	2 50
A F Hussey	152	5	2 50

And in accordance with law, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Maurice Doro & Co., No. 327 Montgomery street, San Francisco, Cal., on the 5th day of August, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. H. BURTON, Secretary.
Office, Room 4 northwest corner Clay and Front streets, San Francisco, Cal. jy22

KELLOG CREEK
PETROLEUM AND MINING COMPANY.
INCORPORATED JULY 11TH, 1865,
Under the Laws of the State of California.

NO. SHARES.....10,000
Par Value.....$50 00

W. F. BRANDRETH.....President
J. M. BUFFINOTON.....Secretary and Treasuror
OFFICE—Room No. 10 Government House, corner of Sansome and Washington Sts., San Francisco.

The claims of this Company consists of SIX HUNDRED AND FORTY (640) ACRES, situated on Kellog Creek, in the Marsh Creek Mining District, Contra Costa county, Cal.

One thousand (1,000) shares of the contingent fund is offered at the low price of ONE ($1.00) DOLLAR per share, full paid, all the stock being unassessable. All who wish to purchase, or make any enquiry concerning the Company, will please call on the Secretary,

J. M. BUFFINOTON,
2v11 Corner of Sansome and Washington streets.

OIL WELL BORING.
J. SEVENOAKS,
Contractor
For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Santa Cruz, Cal. 2v11

Metallurgy.

ASSAYERS

Desirous to commence an ASSAY OFFICE in the mines may buy, at a very low figure, in a prosperous mining county, a complete set of Assaying Apparatus, Scales, Chemicals, and everything necessary to carry on said business. Apply to Lock Box No. 782, Postoffice, San Francisco, stating name and where an interview may be had. 17v10

FIRST PREMIUM
FOR REFINING COAL OIL,

At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. RENOIST, Engineer and Chemist,
17v10 643 Third Street, bet. Brannan and Townsend.

EUROPEAN
METALLURGICAL WORKS,
—AND—
Practical Mining School,

Bryant Street, Between Third and Fourth,

SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "refractory ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. KIMBALL, J. R. MURPHY.
10v10

To Prospectors.

THE Directors of the San Francisco PACIFIC METALLURGICAL WORKS offer the following inducements to Prospectors:

NOTICE.—Knowing it will benefit our country to have it well prospected, we agree, if any party will forward us samples of minerals of any kind for assay, express paid, inclose TWO DOLLARS for the same, to return them a correct assay, with the best method of working, and feasibility of having the same worked in this city.

WORKS—North Beach. OFFICE—511 Sacramento street.
Box 511, Post Office, San Francisco. [v9-20tf

WILLIAM PENROSE,

Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,

Is prepared to buy in any quantity

COPPER, SILVER, GOLD, LEAD

AND OTHER VALUABLE ORES;

Also Lead Bars Containing Gold and Silver,

☞ Full value paid on delivery in this City.☜
Address Lock Box No. 992, P. O., San Francisco. 25v10

Copper, Lead, Gold, Silver,
Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,

Agent for Townshend, Wood & Co., Swansea,

No. 416 Battery Street, San Francisco.
15v10-3m

ORES WANTED.

Gold, Silver and Lead Ores Purchased,

OR WORKED BY SMELTING OR AMALGAMATING,

At my Metallurgical Works in the City

Assay Charges for Ore.....Only $2.50

Apply to J. MOSHEIMER,
14v10-1m 338 Montgomery Street, San Francisco

MARTIN & CO.,

Office, Stevenson House,

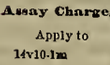
Corner California and Montgomery streets (up stairs).

WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES,

Assaying eight per cent. and upwards of Copper to the ton.

We will make advances upon Ores of Copper.
San Francisco, Post Office Box 1259. 22v10



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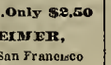

☞ Extracting Without Pain. ☜

Drs. Whitcomb & Dyer,
DENTISTS,

[Successors to W. H. Irwin.]

No. 205 Third Street, near Howard,

v9 SAN FRANCISCO.

BY AUTHORITY OF THE STATE OF CALIFORNIA

Having fully complied with the law by a deposit of $525,000 bonds of the State of California and the United State

BIGELOW & BROTHER,
GENERAL INSURANCE AGENTS,

FIRE, MARINE AND LIFE INSURANCE,

Capital Represented.....$15,000,000.

California Deposit..... $525,000

Office Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.

LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets	$1,500,000
HOME INSURANCE COMPANY, of New York, Assets	3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets	2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets	1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets	600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets	600,000
CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.	

Policies issued on Freights, Cargoes, and Treasure, from and to All Parts of the World. Voyage War Risks taken on Hulls.

Fire Insurance Policies issued on all kinds of Insurable Property in the Country or City. Losses Payable in Gold Coin of the United States.

We represent the Oldest and Best Companies in the United States, and offer as favorable terms as any agency on this Coast.

Losses paid immediately on adjustment.

BIGELOW & BROTHER,

17-6m **General Agents.**

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 16, 1865. 11v10-tf

SAN JOSE INSTITUTE

—AND—

COMMERCIAL COLLEGE,

LOCATED AT SAN JOSE, CAL.

MALE AND FEMALE.

The next session of this Institution will commence on

Monday, July 31, 1865.

An experienced and competent BOARD OF INSTRUCTION is engaged, and every facility will be afforded for a thorough course of study, both in the Academic and Commercial Departments.

Catalogues, containing full particulars, furnished upon application to F. GATES, Director,
25v10-3m San Jose, Cal.

NOTICE OF APPLICATION OF MARRIED WOMAN TO become a Sole Trader.—Notice is hereby given, that JANE C. SMITH, of the city and county of San Francisco, intends to make an application to the District Court of the Fifteenth Judicial District of the State of California, in and for the city and county of San Francisco, on the twenty-ninth day of July, A. D. 1865, for an order of said Court, permitting her to carry on business in her own name and on her own account, pursuant to an act of the Legislature of the State of California, passed April 12th, 1852, entitled "An Act to authorize married women to transact business in their own name," and of the Act amendatory and supplementary thereto, passed April 18th, 1862. The business she intends to carry on is that of the purchase and sale, leasing and mortgaging of real estate, the cultivation of lands, and all matters therewith, or with either of them connected, and of a general trader, in the city and county of San Francisco and the county of Contra Costa.

JANE C. SMITH.
June 29th, 1865. jy1-4w

PARAGON PETROLEUM COMPANY.

Incorporated June 2, 1865,

Under the Laws of the State of California.

CAPITAL STOCK,

$600,000.

NO. SHARES.....6,000

Par Value.....$100

OFFICERS:

President.....ROBERT KIRK
Treasurer.....WM. H. TOBEY
Secretary.....D. S. CUTTER

TRUSTEES:

ROBERT KIRK, T. G. DUFF, WM. H. TOBEY.

OFFICE:

At WM. H. TOBEY & CO.'S Petroleum Agency, Room No. 23 Government House, corner of Sansome and Washington streets, SAN FRANCISCO.

The claims of this Company consist of ONE HUNDRED AND SIXTY (160) ACRES of oil land, favorably located on the North Fork of the Mattole river, adjoining the grounds of the Union Mattole Company, Mattole District, Humboldt county, California. The Company are now actively engaged in the development of the claims.

San Francisco, June 14, 1865. 24v10

CAPITALISTS

OF THE

PACIFIC COAST,

And others interested in the

NEW GOLD FIELDS OF COLORADO,

And the Western Territories, will do well to subscribe for the

Colorado Miner's Register.

PUBLISHED DAILY AND WEEKLY, AT CENTRAL City, in the heart of the great mineral belt of the Republic.

ITS CORRESPONDENCE from all parts of the country will be interesting to all Western men.

TERMS:

Daily—One Year	$25 00	Weekly—One Year	$7 00
" Six Months	13 00	" Six Months	3 50
" Three Months	7 00	" Three Months	2 00

Address,

COLLIER & WALLS,
Publishers "Miner's Register,"
22v10tf Central City, Colorado Territory.

"Say, why should man for thirst be given
If not for wine bestowed by Heaven
To quench such drought as mine?
Without it, I'm a fish on land,
A barren heap of parching sand—
Then give me joyous wine."—*Trinklied.*

Delicacy of flavor, exhilarntion without intoxication, and every other desirable property belonging to the right fermented Juice of the Grape, are to be found in the "Gold Wine," from the celebrated Bosquejo Vineyard, Yolo county.

There is no wine produced in California that can be in comparison with this, and it would be difficult to find a European wine, of the same class, that can surpass it.

The vintage of 1862 is now offered for sale, in quantities to suit, by the Agent of the vineyard,

A. S. LOWNDES

Basement of the New York Hotel, southwest corner Battery and Commercial streets, San Francisco. 20v10-3m

Mining Notices—Continued.

☞ *New Mining Advertisements to be found on another page.* ☜

Bella Vista Gold and Silver Mining Company. Cacachilas District, Lower California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 26th day of June, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said company, payable on the 2d day of June, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, No. 326 Clay street, San Francisco.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 29th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 12th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. FULLER, Secretary
Office, 326 Clay street, San Francisco. jy

Bolinas Petroleum Company, Marin County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of June, 1865, an assessment of 25 cents per share was levied upon the capital stock of said Company, payable on the 1st day of July, 1865, in United States gold coin, to the Secretary, at the office of the company, No. 611 Clay street, Room 8, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 19th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. L. KIRBY, Secretary
Office, 611 Clay street, room 8, San Francisco, jy

Chloride Ledge Gold and Silver Mining Company. Location of Mine: Blue Mountain District, Calaveras county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 11th day of July, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, No. 606 Montgomery street, San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. H. SMITH, Secretary.
Office, No. 606 Montgomery street, San Francisco. jy11

Cherokee Gold and Silver Mining Company. Echo District, Humboldt County, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 23d day of June, 1865, an assessment of seventy-five (75) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at his office, northeast corner Montgomery and Jackson streets, San Francisco.

Any Stock upon which said Assessment shall remain unpaid on Saturday, the 29th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 12th day of August, 1865, to pay the delinquent Assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

L. FRANCONI, Secretary.
Office, northeast corner of Montgomery and Jackson streets, San Francisco. je24

Emilia Mining Company, State of Guerrero, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 26th day of June, 1865, an assessment of fifty cents per share was levied upon the assessable stock of said Company, payable on the 27th day of June, 1865, in United States gold coin, to the Secretary, at the office of the Company, No. 55 Montgomery Block, city and county of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 29th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 12th of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.
Office, No. 55 Montgomery Block, southeast corner Montgomery and Washington streets.
San Francisco, June 26, 1865. jy1

La Victoire Copper Mining Company, of Hunter's Valley, Mariposa county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of three ($3) dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, 606 Merchant street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 28th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

G. FRANCIS PETRARCHI, Secretary.
Office of La Victoire C. M. Co., 606 Merchant street, San Francisco. jy12

Caledonia Tunnel and Mining Company,
Gold Hill District, Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 9th day of June, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Old Certificates.	No. Shares.	Amount.
L B Adsit	1220	10	$30
L B Adsit	1 22	10	30
L B Adsit	1223	10	30
L B Adsit	1224	10	30
E Ayers	1156	10	30
J W Burnham	45	10	30
J W Burnham	48	10	30
J F Beeman	256	5	15
T W Birdsell	686	5	15
T W Birdsell	9 6	5	15
Joseph Bassett	788	10	30
A Bartell	12 6	2	6
H B Brooks	1270	10	30
A E Crane	1241	10	30
A E Clark	1 13	10	30
Canin & Everett	1190	5	15
J C Collins	1242	10	34
J C Collins	1285	6	18
R Z Clement	260	5	15
R Z Clement	261	5	15
E David	984	10	30
Gilbert Douglass	163	10	30
Gilbert Douglass	165	10	30
Gilbert Douglass	642	30	90
H C Douglass (balance)	643	2	6
T R Dodd	657	10	48

Names.	No. Certificate.	No. Shares.	Amount.
E M Derby	1214	10	30
E M Derby	1215	10	30
E M Derby	1216	10	30
Edward Farnum	1282	10	30
J Holland	1227	5	15
Thos Hill	1111	10	30
Thos Hill	1112	10	30
Thos Hill	1113	10	30
Thos Hill	1114	10	30
H Harris	474	5	15
W H Harnden	684	10	30
W H Harnden	1091	5	15
A A Harris	728	9	27
J G Dodge	1140	20	60
J Johnson	1244	10	30
A Hollan	1205	15	45
W L Mead	78	25	75
W L Mead	70	25	75
Catherine McCallin	280	10	30
Catherine McCallin	1183	10	30
Peter Malley	515	3	9
C G Moxley	889	5	15
J W Mackay	868	10	30
J W Mackay	1167	5	15
J W Miller	1251	25	75
F A Munroe	1291	20	60
F A Munroe	1292	10	30
F A Munroe	1293	5	15
R B Owen	1257	5	15
E J Parker	145	10	30
S J Pattel	127	10	30
J Parrish	461	10	30
J Parrish	640	5	15
F L A Pioche	1281	7	21
A Pioche	1 05	10	30
J D Ryan	1223	10	30
E Stevens	1229	10	30
E Stevens	1335	30	90
B Sheldon	334	10	30
J B Sutherland	313	5	15
H Schmiedell	1156	10	30
H Schmiedell	1252	5	15
E L Smith	1255	10	30
E L Smith	1256	10	30
Peter Taylor	989	10	30
E Tomlinson	1291	10	30
N N Tilden	646	10	30
A C Teltman	1268	20	60
A C Teltman	1269	20	60
A C Teltman	1272	10	30
G A Weed	296	2	6
L & E Wertheimer	787	14	42
L & E Wertheimer	918	5	15
F H Woods	1134	10	30

	No New Certificates.	No. Shares.	Amount.
J M Boffington	103	30	90
C S Bowden	131	10	30
C S Bowden	132	10	30
C S Bowden	133	10	30
C S B wden	140	10	30
C S Bowden	141	20	60
C S Bowden	142	20	60
C S Bowden	143	10	30
C S Bowden	144	10	30
C S Bowden	145	5	15
Bosworth & Russell	33	10	30
Henry Barrett	76	10	30
Michael Burke	86	15	45
Wm Bird	89	5	15
J S Burgess	139	5	15
Chas D Coon (Trustee)	67	10	30
J W Epley	82	10	30
J W Epley	83	10	30
J W Epley	84	10	30
J W Epley	124	10	30
J R Fitch	93	10	30
J R Fitch	94	10	30
Wm M Graham	74	10	30
Anna Garrity	87	10	30
W J Gunn	96	10	30
M Heineman	19	10	30
D Hardy	112	30	90
J Mortenstein & Co	60	10	30
J Marienstein & Co	81	10	30
Henry McGary	111	10	30
F A Munroe	1:9	20	60
F A Munroe	130	5	15
John Maloney	119	5	15
E S Morrisson	122	20	60
Levi May	135	20	60
A Pichior	113	5	15
J G Perkins	103	5	15
J G Perkins	104	5	15
M Quinn	147	4	12
A B Samson	2	10	30
A B Samson	3	10	30
Isaac Swain	12	10	30
Isaac Swain	13	10	30
Isaac Swain	14	10	30
Isaac Swain	15	10	30
Isaac Swain	16	10	30
Isaac Swain	25	10	30
Isaac Swain	55	10	30
W P Taylor (Trustee)	78	10	30
W P Taylor (Trustee)	79	10	30
Isaac Tabor	116	10	30
Isaac Tabor	117	10	30
John Johnson	54	10	30
R Kavanaugh	88	10	30
F W Winac	53	10	30
F W Winac	80	20	60
J C Whitaker	49	20	60
J C Whitaker	50	10	30
Wm. N. Wade.	1005	75	225

And in accordance with law, and an order of the Board of Trustees, made on the 9th day of Juoc, 1885, so many shares of each parcel of said stock as may be necessary will ho sold, at public auction, at the salesroom of Maurice Dore & Co., at No. 827 Montgomery street, San Francisco, on Saturday, the 29th day of July, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. M. BUFFINGTON, Secretary.

Office, 10 Government House, corner Sansome and Washington streets, San Francisco. jy15

George Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

ASSESSMENT No. 6.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, or to S. A. HAWKINS, Superintendent, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, 410 Montgomery street, San Francisco. jy15

Good Hope Gold and Silver Mining Company, Alpine District, Alpine County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on or before the 7th day of August, 1865, in United States gold and silver coin, to the Secretary, at his office, or to H. MORRIS, in Markleeville. *[Delinquents will be held for accruing costs after that date.]*

Any stock upon which said Assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessmem, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

PRESTON MORRIS, Secretary.

Office, 526 Montgomery street, San Francisco. jy15

Halleck Gold and Silver Mining Company— Location of Works: Great Mogul Mining District, county of Alpine, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of July, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 311 Commercial street, San Francisco, or to M. SCOTT, Mogul, Alpine county, Cal.

Any stock upon which said assessment shall remain unpaid on the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 26th day of August, 1865, to pay the delinquent assessment, together with the costs of advertising and expenses of the sale.

H. B. FORESTER, Secretary.

Office, 311 Commercial street, San Francisco. jy15

La Libertad Gold and Silver Mining Company, Cacachillas District, Lower California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 27th day of June, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 21st day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. VALE, Secretary.

Office 36 Exchange Building, San Francisco. jy8

Lady Franklin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 3, levied on the 16th day of July, 1863, and assessment No. 4, levied on the 3d day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Assessment No. 3, levied July 18th, 1863.

Names.	No. Certificate.	No. Shares.	Amount.
Wm Fido (locator)	not issued	12	$3 00
J G McCauley "	not issued	12	3 00
W T Turuor "	not issued	25	8 25
Wm Mercer "	not issued	40	10 00
J H Jacobs "	not issued	26	6 25
Jno Bardsley "	not issued	15	3 75
Crowson Smith	not issued	11	3 75
Estate of H'y Mercer	not issued	15	3 75

Assessment No. 4, levied June 3d, 1865.

Jno G McCauley (loc.)	not issued	12	6 00
Wm Fido "	not issued	12	6 00
W T Turuor "	not issued	25	12 50
Wm Mercer "	not issued	40	20 00
C Larson "	not issued	82½	41 25
James H Jacobs "	not issued	25	12 50
Crowson Smith "	not issued	11	5 50
Estate of H'y Mercer	not issued	15	3 75
John Bardsley (loc.)	not issued	15	3 75
John G McCauley	38	7	3 50
T K Wilson	49	3	1 50
T K Wilson	50	2	1 00
Wm Mercer	cer 57, 20 shs		
	cer 58, 10 shs; cer 59, 10 shs		
	cer 60, 10 shs; cer 81, 5 shs		
	cer 83, 5 shs; cer 64, 5 shs		
	cer 65, 5 shs	70	35 00
A J Field	178, 5 shs; 181, 2½ shs	7½	3 75
Mrs M A Harris	73, 5 shs; 74, 5 shs	10	5 00
Josiah Legro	117, 5 shs; 157, 5 shs		
	187, 10 shs; 160, 2 shs	22	11 00
Thomas Odgers	139	4	2 00
Henry Odgers	172	4	2 00
Daniel Odgers	173	4	2 00
T G Burns	175	6	3 00
J F Davis	162	1	50
Maria Silverberg	161	3	1 50
G C McAllister	159	3	1 50
G C McAllistor	180	2	1 00
A H Powers	174	10	5 00
Jas Porteous	75, 5 shs; 78, 5 shs	10	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 3d day of June, 1885, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the office of the Company, 305 Montgomery street, corner of Pine, San Francisco, on the 28th day of July, 1885, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessmeat thereon, together with costs of advertising and expenses of sale.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, San Francisco. jy8

Marathon Gold and Silver Mining Company, Keyes District, Mono county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 12th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Milo Page	1 2 3 4	178	$89 00
Milton Lodson	7 9 10 12	138	09 00
Daniel Darragh	18	108	90 00
M & W H Graham	31	10	5 00
W T Sharp	32	10	5 00
P B Green	33	10	5 00
Myron Lefever	34	20	10 00
J B White	35 36	30	15 00

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Cobb & Sinton, No. 406 Montgomery street, San Francisco, on Saturday, the 29th day of July, 1865, at 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

E. C. McCOMB, Secretary.

Office, Room No. 1, northwest corner Washington and Sansome streets, San Francisco. jy15

Napa Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.—Assessment No. 5.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of June, 1865, an assessment of sixty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the company, or to S. A. HAWKINS, Superintendent, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 14th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.

Office, No 413 Montgomery street, San Francisco.

NOTICE.—At the above meeting it was ordered that Assessments No. 1, 2, 3 and 4, levied July 1st, 1863, of 10 cents; August 24th, 1863, of 10 cents; October 21th, 1863, of 10 cents, and October 17th, 1864, of 30 cents, be and the same are rescinded, and stockholders having paid said assessments, or any portion, to be credited on Assessment No. 5 accordingly. (jy8) J. WARREN CLARK, Secretary.

Paragon Petroleum Company, Mattole Mining District, Humboldt county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 1st day of July, 1865, an assessment of thirty cents per share was levied upon the assessable stock of said Company, payable on the third day of July, 1865, in United States gold and silver coin, to D. S. CUTTER, Secretary, room 28 Government House, corner Washington and Sansome streets, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 19th day of August, 1865, at 10 o'clock A. M., to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

jy15 D. S. CUTTER, Secretary.

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander Co., Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of fifty (50c) cents per share was levied on the 15th day of July, 1865, upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, E. J. DRINKHOUSE, No. 223 Front street, San Francisco, or to GEO. T. TENAY, Austin, Lander county, Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 6th day of September, 1865, to pay the delinquent assessment, together with costs of advertisiug and expenses of the sale. By order of the Board of Trustees.

E. J. DRINKHOUSE, Secretary.

Office, No. 223 Front street, San Francisco. jy15

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine county, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 8th day of July, 1865, an assessment of sixty cents per share was levied upon the capital stock of said company, payable on the 10th day of July, 1865, in United States gold and silver coin, to the Secretary, at the company's office, No 55 Montgomery Block, city and county of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will bo sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, S. E. corner of Montgomery and Washington streets. Office hours: 10 A. M. to 4 P. M. San Francisco, July 8, 1865. jy15

Smoky Valley Gold and Silver Mining Company, Smoky Valley District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of one dollar and fifty cents per share was levied upon the capital stock of said company, payable on the 15th day of July, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, or to T. W. BRADLEY, Superintendent, at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 30th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. W. KNIGHT, Secretary.

Office, 36 Exchange Building, corner Washington and Montgomery streets, San Francisco. jy15

Sierra Nevada Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

ASSESSMENT No. 3.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July 1865, an assessment of seventy-five cents per share (being 25 cents per month for the months of May, June and July, 1865) was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, or to S. A. HAWKINS, Superintendent, at Silver Mountain

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.

Office, 410 Montgomery street, San Francisco.

NOTICE.—At the above meeting of said Sierra Nevada Co., Assessment No. 1, levied July 8, 1863, for ten cents, and Assessment No. 2, levied November 1, 1864, for twenty-five cents per share, were and are hereby declared rescinded, and stockholders having paid said assessment, or any portion thereof, will be credited on above Assessment No. 3 accordingly.

jy15 J. WARREN CLARK, Secretary.

St. Paul Gold and Silver Mining Company, Amador District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of June, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 22d day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. DUPERU, Secretary.

Office, No. 710 Sansome street, San Francisco. jy8

San Rafael Mining Company, Ranchita, Lower California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 29th day of June, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable on the 1st day of July, 1865, in United States gold and silver coin, to the Secretary, EDWARD A. HAWLEY, at the office of the Company.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 29th day of July, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 15th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

EDWARD A. HAWLEY, Secretary.

Office, corner California and Battery streets, San Francisco, Cal. jy1

Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 29th day of June, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, in San Francisco, or to J. M. PIKE, Superintendent, at Copperopolis.

Any stock upon which said assessment shall remain unpaid on the 28th day of July, 1865, will be advertised on the 29th day of July, 1865, as delinquent, and unless payment shall be made before, will be sold on Monday, the 14th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

EDWARD C. LOVELL, Secretary.

Office, No. 436 Jackson street, San Francisc jy1

Office of the United States Gold and Silver Mining Company, San Francisco, Cal.—Location of Mines: in Santa Fe and Ravenswood Mining Districts, Lander county, Nevada.

Notice is hereby given, that in accordance with a resolution of the Board of Trustees of the above named Company, passed on Wednesday, the fifth day of July, 1865, and in accordance with the by-laws of said Company, a meeting of the stockholders of the above named Company will be held at the office of the Compaay, No. 605 Clay street, in this city, on Thursday, the tenth day of August next, at 7½ o'clock P. M., for the purpose of authorizing and empowering the Trustees of said Company to sell one or more of the mines belonging to the said United States Gold and Silver Mining Company, and for the purpose of changing the by-laws of the same, and for the transaction of any and all business that may legally come before the meeting. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

San Fraacisco, July 5, 1865. jy8 5w

Vulcan Mining Company, Santa Fe Mining District, Lander county, Nevada.

NOTICE.—The Annual Meeting of the stockholders of this Company will be held at Room No. 4, northwest corner of Clay and Front streets, San Francisco, Cal., on Saturday, August 5th, 1865, at 1 o'clock P. M.

jy15-td ALPHEUS BULL, President.

Yosemite Silver Mining Company, Oro Fino District, Humboldt county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 3d day of July, 1865, an assessment of one dollar and twenty-five cents ($1.25) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to D. H. CROWE, No 402 Front street (up stairs), San Francisco, or to JAS. T. MACLEAN, Superintendent, at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 19th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

S. O. PUTNAM, Secretary.

San Francisco, July 3, 1865. jy8

Agent Wanted.

A good Canvassing Agent can secure permanent and remunerative employment by calling at the office of the MINING AND SCIENTIFIC PRESS, 505 Clay street.

Printer Boy Wanted.

An active and reliable boy, about sixteen years of age, who wishes to learn the printing business thoroughly, in all its branches, can obtain a situation at this office upon presenting suitable recommendations.

U. S. 7-30 LOAN.

By authority of the Secretary of the Treasury, the undersigned has assumed the General Subscription Agency for the sale of United States Treasury Notes, bearing seven and three-tenths per cent. interest per annum, known as the

SEVEN-THIRTY LOAN.

These Notes are issued under date June 15th, 1865, and are payable three years from that time in currency, or are convertible, at the option of the holder, into

U. S. 5-20 Six Per Cent.

GOLD BEARING BONDS.

These Bonds are now worth a premium of nine per cent. including gold interest from November, which makes the actual profit on the 7-30 loan, at current rates, including interest, about ten per cent. per annum, besides its EXEMPTION FROM STATE AND MUNICIPAL TAXATION, WHICH ADDS FROM ONE TO THREE PER CENT. MORE, according to the rate levied on other property. The interest is payable in currency, semi-annually, by coupons attached to each note, which may be cut off and sold to any bank or banker.

The interest amounts to

One cent per day on a $50 note,
Two cents per day on a $100 note,
Ten cents per day on a $500 note,
Twenty cents per day on a $1,000 note,
One dollar per day on a $5,000 note.

Notes of all the denominations named will be promptly furnished upon receipt of subscription. This is

The only Loan in Market

now offered by the Government, and it is confidently expected that its superior advantages will make it

THE GREAT POPULAR LOAN OF THE PEOPLE.

Less than $300,000,000 of the loan authorized by the last Congress is now on the market.

This amount, at the rate at which it is being absorbed, will all be subscribed for within four months, when the notes will undoubtedly command a premium, as has uniformly been the case on closing the subscriptions to other Loans.

In order that citizens of every town and section of the country may be afforded facilities for taking the Loan, the National Bank, State Banks, and Private Bankers throughout the country have generally agreed to receive subscriptions at par. Subscribers will select their own agents, in whom they have confidence, and who only are to be responsible for the delivery of the notes for which they receive orders.

JAY COOKE,
Subscription Agent, Philadelphia.

March 25, 1865. 17v1[9.3]m

ADDENDUM.

PER OVERLAND TELEGRAPH:

PHILADELPHIA, May 17, 1865

Second Series all sold. Commenced on Third Series. Two Hundred and Thirty Millions (230,000,000) precisely like other two Series, except dated 15th July, and Government reserves the right to pay six per cent. in Gold instead of 7-30 Currency.

JAY COOKE,
Subscription Agent, Philadelphia.

MEXICAN

TEN PER CENT.

SIX YEAR LOAN.

The undersigned, having a full Power of Attorney from Gen GASPAR SANCHEZ OCHOA, Commissioner for the REPUBLIC OF MEXICO, as Agent for the sale of the Bonds of this

POPULAR LOAN,

These Bonds will be sold at

Fifty Cents on the Dollar, Gold Coin.

They bear date July 1st, 1865, and are now ready to be furnished in sums to suit, in denominations from $50 to $1,000.

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Interest payable semi-annually at the PACIFIC BANK, in the city of San Francisco.

The payment and redemption of these Bonds and Coupons are secured by the transfer to the undersigned, as Trustee, of one-half of the fiscal proceeds of all the

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MAZATLAN,
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AND FROM THE MINES OF SAID STATES,

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And employed exclusively for the payment of said

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SAMUEL BRANNAN,
AGENT.

San Francisco, Cal., July 1, 1865. 1v1l-1m

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For Non-Retention or Incontinence of Urine, Inflammation or Ulceration of the Bladder or Kidneys, Diseases of the Prostrate Gland, Gravel, Brick Dust Deposits, Dropsical Swellings, Organic Weakness, Debility, Female Complaints, Etc.

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The reader must be aware that however slight may be the attack of the above diseases, it is certain to affect his *Bodily Health, Mental Powers and Happiness*. If no treatment is submitted to, Consumption or Insanity may ensue.

All the above diseases require the aid of a diuretic.

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For purifying the Blood, removing all diseases arising from excess and imprudence in life, chronic constitutional diseases arising from an impure state of the blood, and the only reliable and effectual known remedy for the cure of Scrofula, Scald Head, Salt Rheum, Pains and Swelling of the Bones, Ulcerations of the Throat and Legs, Blotches, Pimples on the Face, Tetter, Erysipelas, and all scaly eruptions of the skin, and beautifying the COMPLEXION.

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B

Two tablespoonsful of the Extract of Sarsaparilla, added to a pint of water, is equal to the Lisbon Diet Drink, and one bottle is equal to a gallon of the Syrup of Sarsaparilla, or the decoction as usually made.

The above Extracts are prepared on purely scientific principles—*in Vacuo*—and embody the full strength of the ingredients entering into their composition. A ready and conclusive test will be a comparison of their properties with those set forth in the U. S. Dispensatory.

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In Diseases of the Blood, Humors on the Face, or any and every part of the body, use Extract of Sarsaparilla, applying to Pimples and all external Humors or Eruptions the Improved Rose Wash.

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By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by

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Inventor and Patentee.

Monitor, Alpine county, Cal.

W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v1l

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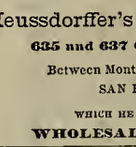

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A Journal of Useful Arts, Science, and Mining and Mechanical Progress.

DEWEY & CO., PUBLISHERS And Patent Solicitors. | SAN FRANCISCO, SATURDAY, JULY 29, 1865. | VOLUME XI. Number 4.

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IMPORTANT TO MEXICAN COMMERCE.—We have been permitted to make the following extract from a private letter received in this city from the well known House of Kebe, Van der Linden & Co., of Colima, Mexico, and dated June 21, 1865:

"We are happy to state, that in accordance with the sense of equity prevailing in the Imperial counsels, justice has been meted out to us, by a decree of May 30th, nullifying the second article of restrictions in the franchises granted to commerce, and extending to the ports on the Pacific side the advantages hitherto enjoyed by those of the Atlantic."

By reference to our issue of May 20th, a full detail will be found of the grievance alluded to in the above extract. The justice which has now been accorded by the Imperial Government to the Mexican Pacific ports, will doubtless be fully appreciated by all persons holding commercial intercourse with that neighboring people.

GEN. ROSECRANS arrived in this city, the past week, in the Constitution. He was met at the boat by several U. S. Army officers and escorted to the Occidental, where he was serenaded on Thursday evening. General Rosecrans, early in the war, struck an enthusiastic chord in the public mind; and although he has of late been but little before the public, he never has and never will cease to command the admiration of the country of his adoption for his heroic and patriotic services.

A POUND of Sea Island cotton has been spun into a thread fifty-six miles long.

FROM THE OIL REGIONS.

Boring operations in various parts of the State are still being vigorously prosecuted. Several of the Eastern companies organized at the beginning of the year for the development of claims in Santa Barbara and San Luis Obispo counties, are already vigorously at work. The Adams company have removed the obstruction from their well, and we presume will soon be able to demonstrate its pumping capacity. Messrs. Stranahan & Co. have commenced boring in Marsh cañon, to the southeast of Mount Diablo, with every prospect of success. We have nothing later from the Santa Clara wells than that given by our correspondent last week from that region. From Colusa county, we hear that the Rowe company are down about 150 feet, with encouraging indications; although they have not yet reached any considerable flow of oil. There are now four, if not five companies, boring for oil in this county. The *Sun* thinks it quite certain that the oil region of that county will be thoroughly prospected during the present season.

The most encouraging intelligence, thus far, is from Humboldt county. The well of the Union company, on Mattole creek, upon which, as we have already stated, work was suspended several weeks since, seems to be bound to develop itself in spite of the wishes of its proprietors, who have declined to go any deeper until proper roads can be opened for getting the oil to market, and barrels and tanks prepared for storing it as it comes from the well. When work was suspended on this well, there were sixty feet of oil in it. Since that time it has been gradually rising, until at last accounts it had risen to the top of the well, which is down 145 feet. It is said the company intend to send down some fifty barrels of oil on the next trip of the steamer Del Norte.

A gentleman who arrived in this city by the Del Norte, on Thursday, states that another company—name not given—are boring at a point about six miles from the Union, and struck oil at fifty feet. Colonel Hopkins brought samples of oil from this last well to this city. About fifteen companies are now at work in the Mattole and Bear River districts, and it is the general belief that shipments of oil will be made in quantities from that section within the next two months.

SENATOR STEWART arrived in this city on Thursday evening by the Sacramento boat. He was met at the steamer by the committee appointed to receive him, and escorted to the Cosmopolitan, where he was cordially welcomed by a host of friends. About twelve o'clock he was serenaded by Willis' Concert Band. The exertions of Senator Stewart in behalf of the mining interests of the Pacific coast entitle him to the most peculiar consideration of all residents in or west of the Rocky mountains. Nevada may claim him as *her* Senator, *par excellence;* but California and Oregon, and the neighboring Territories as well, will unite in doing honor to one who has done more than any other man in Washington to advance and keep faithful watch over the general interests of the entire Pacific coast

A PETROLEUM COOKING STOVE.

A new and valuable invention is now being exhibited, and is also for sale, at Hoogs & Madison's Real Estate Agency, 316 Montgomery street. This invention is called the "Petroleum Cooking Stove," and is the invention of O. F. Morrel, of Chelsea, Mass. The stove requires no chimney or pipe, occupies about as much space as an ordinary sewing machine, and is fully as ornamental and neat in its construction as one of those useful machines without a case. The stove is constructed with one or two burners, is as safe in its use as an ordinary wood cooking stove. The substance used for fuel is naptha, the least expensive of the materials obtained in the distillation of crude petroleum. The naptha is placed in a reservoir attached to the stove and about three feet above it, and is so connected with the burner as to be vaporized as it comes in contact with the atmosphere in which it is burned. Two quarts of naptha will keep up a strong cooking fire, sufficient for roasting a turkey, for from ten to twelve hours. Four pies can be baked at one time with this heat, and as rapidly and well as in the best arranged brick oven, with no danger of burning. The fire can be regulated so as to burn at a cost of one cent or three cents per hour. A loaf of bread can be baked, or steaks cooked for six men, at a cost of less than one cent for fuel; a flat-iron can be heated and kept hot at a cost of three cents per hour, and neither operation will throw as much heat into the room as the burning of an ordinary kerosene lamp. The fire may be kindled and the oven heated in less than five minutes. To our mind this mode of burning naptha could be most advantageously applied for general heating purposes, and we should think would be especially valuable for warming rooms in this city. Such an apparatus need not take up any more room than an astral lamp, and, in fact might be employed for both heating and lighting. The fact that it utilizes a petroleum product, which is now of but little value, is another interesting consideration well deserving of attention. Messrs. Bullard & Battles have purchased the patent right for this invention. They may be seen during business hours at the office of Hoogs & Madison, as above, where the stove can be examined and studied and seen in actual practice.

PERSONAL.—We understand that Dr. Jackson started on Thursday last, in company with Mr. Meader, on a visit to the Union mine at Copperopolis. The Doctor will also take a look at the mines generally of that important section, and proceed thence to the Big Trees of Calaveras county. He takes instruments with which to measure their altitudes, with the view of being able to give the same on his own knowledge. We hope to be able to publish some extracts from his note book on his return.

TO CORRESPONDENTS.—We will endeavor to answer the "query" of our Grass Valley correspondent next week; "McH.," from Austin, will receive attention in our next. The letter from Capt. Paul was received too late for insertion in the present issue.

THE APPROACHING EXHIBITION.

Work has commenced and the Pavilion is now open and the committee ready to receive machinery, etc., for exhibition. A look into the Pavilion yesterday, revealed carpenters busy in completing the necessary preparation for the receipt of articles and machinery. Several large pieces of machinery have already been placed in the building, and workmen are engaged in putting up the central fountain, finishing off the "Old Folk's Kitchen," the "Restaurant," etc. We took a look at the large old fire place fitting up for the former, and concluded the executive committee intended to send for a section of one of the big trees from Calaveras for a backlog. That kitchen will be quite a feature of the exhibition. No time should be lost by those who intend to exhibit in making their preparations. Gardner Elliott, Esq., formerly an executive officer of the Mechanics' Institute, has been chosen as General Superintendent of the Fair.

Let all bear in mind that the Fair opens on the tenth of August, one week from Thursday next. We hope every friend of industry will be found promptly on hand, showing an interest in the grandest representation of California's wonderful prosperity and progress ever yet attempted. The committee have received undoubted assurances that the magnitude of the display this year must far exceed that of all former exhibitions. One reason of this is, doubtless, the fact that another such fair may not be held for years.

Our arrangements for the publication of the DAILY FAIR PRESS are far superior to those of last year. We have secured an extra quality of paper for use, and shall make a handsome sheet, and a most complete record of the Fair.

Every intelligent citizen of this coast who makes a visit of one week to the Fair, will ever have occasion to remember it as time and money well spent.

TO THE PRESS.—Our brethren of the interior press will confer a good thing upon themselves, their readers, and the interests of this coast, by reminding their patrons of the near approach of the Industrial Exhibition in this city, and requesting them to forward articles for exhibition, and to be present to reap the benefit to be derived from intercourse with one another in comparing notes upon such an occasion.

FROM MEXICO.—A private letter by the John L. Stephens, from Mazatlan, states that just as that steamer sailed the French commander arrived from Durango, from which city he had been driven by the Juraists, and his command completely routed after a desperate engagement. The Mexican forces were commanded by Caravajal.

WE learn from the Gold Hill *News* that Mr. W. D. Farrand, the inventor of the oscillating amalgamator, which bears his name, is the lessee and superintendent of the Ogden mill, located in the east cañon, below Virginia City. This mill runs eighteen stamps, and is said to be doing a good business. It is supplied with rock from the Yellow Jacket mine.

"MINER," whose communication appeared in our last issue, is requested to call at this office or send his address.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

The Problem of Gold and Silver Extraction--A General Review---No. XV.

BY PROF. L. LANSZWEERT.

WASHING THE TORTA.

We have already alluded to the importance of this part of the patio process. We will now content ourselves with noticing the apparatus and mode. Four large tubs, built of staves, or masonry, 15 feet wide by four deep, are mounted over an arched vault, to catch the mercury which infiltrates insensibly through the pores and amounts to no insignificant sum per annum. These are open at the top, communicating by a series of apertures, six by eight inches, at about half their hight, and are provided with dashers placed on a vertical axis something resembling those of a barrel churn. The requisite quantity of ore being put in, the first water is added and the whole set in motion. The amalgam mostly settles to the bottom, while the mud passes to the next of the sieves, where it deposits a little more; then to the third, which catches some of the most impure and the heavier sulphurets; thence to the fourth, which receives hardly any at all. At the expiration of three hours the charge is drawn off, if completed, and a fresh one added, until the whole "torta" is washed, when the amalgam is removed and cleaned by hand-washing in troughs or basins, preparatory to straining and distillation.

In some haciendas the number of vats is only three, in others six; and still there is a trifling loss; while in some places only one is employed, and the waste is consequently enormous. The amalgam, containing perhaps one-eighth or one-ninth of silver, (the proportion of mercury being increased by an addition of fluid mercury, when necessary, to the lavedere, to catch the particles of amalgam, and called the *bano,*) is placed in long, sleeve-like bags of strong canvas, drained and pressed by twisting, to exclude all the mercury possible, and made into balls or cakes for distillation. The expressed mercury is submitted a second time to the same filtering operation, and yields a small ball, one-fifth per cent. generally remaining with the mercury. The dry amalgam, called "pella," contains from eighteen to twenty-eight (generally twenty-two) per cent. of silver, dependent on the state of aggregation of this metal in the ore, and the degree of pressure employed. The remaining operations of distillation and smelting are too well known to require description.

The refuse of the washing vats, the "jal," or "cahecilla," as they call it here, was formerly permitted to run out into the creek, and sold at about $8 or $10 the torta to a set of men named "despolvilladores," or concentrators, whose business it was to extract the "polvillos"—the metallic deposit containing silver and a little amalgam which escaped the vats—for sale to the original proprietors. This they did by heaping them up on a rude "table dormante," an inclined plane, about eight feet square. Having piled up the ore at the head of the table, the despolvillador, seated at the foot, throws water gently on it with a horn spoon, and the light particles flow away with the stream and are rejected, while the heavier arrange themselves near the place of original deposit, and after two or three washings are sufficiently concentrated for removal. After a preliminary washing, generally with salt, they are returned to the mills, or, when containing copper, used in the preparation of magistral. The quantity as well as richness varies wonderfully in different ores, or different grinding of the same ore, the former varying from one-fourth to thirty per cent. In Guanajuato, they are trifling—perhaps not over two per cent., and by this hand-process cost six to eight reals the arroba of twenty-five pounds, but many haciendados have lately introduced a machine, something like an English "buddle," in which the ores are arranged round the circumference of a great shallow basin of brick and mortar, and irrigated by many long tin tubes, projecting from a revolving cask filled with water in the center. When worked entirely by hand, it employs from three to four men, and reduces the cost of "polvillos" to fifteen or twenty cents the arroba.

CHARACTERISTICS OF THE MEXICAN "ARASTRA."

For ages the arastra has been the favorite mode in Mexico of extracting gold and silver from their containing rocks, and all experience goes to prove that it is the surest mode of extracting all the metals from the ore, that has ever been tried by the grinding and amalgamating process. As an amalgamator, the arastra stands unrivaled. Notwithstanding they have been thrown aside repeatedly by our go-ahead operators, still they revert back to the "primitivo arastra" as a last resort against an utter failure in their mining enterprises. Now it occurs to me, that instead of abusing the slow and sure arastra, we should study the principle upon which it works, and endeavor to improve upon its structure, thereby increasing its efficiency and usefulness. There is no process now in use that will reduce ores so completely as the arastra, and it is well known by practical men that gold cannot be thoroughly extracted until the ore is completely reduced to the fineness of gold itself; for a coarse grain of sand may contain several fine particles of gold. Stamps cannot reduce the ores so fine as an arastra, for the reason that, as soon as it is reduced to sand, the blow of the stamp forces it with the water from under the blow; as the water gives place to the blow of the stamp it takes the fine sand with it, and the blow falls upon the coarse quartz that remains behind. It appears to me that the stamp and arastra should work together—one to break the mass into coarse sand and the other to reduce it to the required fineness to complete the process.

By "patio" the loss of gold is twenty-five to thirty-three per cent. on the assay, and in some places as high as forty per cent. The "polvillos," which are the metallic portions (principally sulphides of iron, rich in silver) remaining from the washing "torta," always contains gold. They are treated a second time to obtain whatever gold and silver they may hold, but they will not yield them by the common method without a preliminary operation. It may be quite probable that the gold in these polvillos exists as a *sub-sulphide.*

The *magistral* is generally manufactured from the sulphide of copper, containing, before calcination, from six to fifteen per cent. of that metal. The furnaces in which this ore is calcined are called *comalillos.* They have a double hearth, the roof is almost or quite flat, and the fire-place in the center and running longitudinally, so that the flame plays sideways. About eight *arrobas* of the ground ore mixed with a few handfulls of common table-salt is a charge for each hearth. The fire is then gradually increased and the ore almost constantly stirred for the space of six to eight hours, when the doors and other openings are closed to exclude the air. The percentage obtained, according to the ore, is from thirty to fifty per cent. of sulphate of copper, seven to twelve per cent. of sulphate of iron, three to four per cent. of copper, not available as sulphide, and one to three per cent. of copper as oxyd.

Would not the low grades of our copper ores, if treated as above, not be profitable for the production of sulphate of copper, which consumption is daily more and more increased?

CHEMICAL THEORY OF THE PATIO PROCESS.

Of the rationale of the patio process many views have been given. All the olden theories supposed the formation of a chloride of silver from the electro-chemical action of the sulphate of copper, salt and mercury on the ore—a doctrine which every practical chemist, acquainted with the phenomena presented, knew to be at variance with the truth; chloride of silver never being present except accidentally and in minute quantities (when not found in the ore), and rather impeding than facilitating the operation. It was reserved for John A. Browning, an English gentleman, long resident in Spanish America, and favorably known for his practical and scientific knowledge of the reduction of silver ore, to propose a theory at once simple, intelligible, fulfilling all the requisites, and explaining all the phenomena of the "beneficio de patio." He supposes that a di-chloride of copper is formed simultaneously with the proto-chloride of mercury; by the action of this latter metal on the proto-chloride of copper present, this di-chloride absorbs an atom of oxygen from the air, being converted into an insoluble oxy-chloride, which dissolving in the excess of salt, communicates its oxygen to the sulphur of the sulphuret of silver in the ore, with formation of sulphuric acid and metallic silver; then going back for another dose of oxygen to restart the process "*ad infinitum,*" acting the part of the quadroxyd of nitrogen in the manufacture of sulphuric acid. Metallic silver being thus formed from the first, we can readily understand why in a well managed torta there is never more than an inappreciable quantity of chloride of silver present at any stage of the process. Dr. Browning has based a new ingenious, rapid, and economical "beneficio de patio," upon this theory. The length of time required, in Guanajuato to obtain the silver is from eighteen to forty days, according to the season, management and docility of the ores. The loss of silver on the first assay is variously stated from one to six (and in one case twelve) per cent., most of which is regained in the polvillos; that of mercury fifteen to eighteen per cent. of the amount employed, which is partly consumed (in the chemical reactions) and partly lost mechanically. Sonnenschmidt, a usually careful and reliable authority, asserts that he never was able to detect the most insignificant traces of mercury in the cahecilla. I cannot conceive how he permitted himself to fall into so gross an error. In other parts where less care is used, these losses rise sometimes to thirty-five or forty, and twenty-four per cent. of silver and mercury. The average fineness of the silver, exclusive of the alloy of gold, one-half of which at least is lost in the patio, may be put down at 988 1,000. The whole expenses are averaged at forty-three per cent. for grinding alone; loss of mercury, ten per cent. (amounting to over a million pounds annually, in Mexico); the product of silver being estimated at 900,005 pounds, extracted from 260,000 tons of ore. Such an influence has the value and consequently the loss of mercury in the product of silver, that when the price of the former rose in the last century it diminished in six months the quantity of silver reduced fifty-five per cent., or more than half. In addition to the ingredients mentioned at the commencement—and which have been in use ever since the accidental discovery of the "beneficio de patio" by Bartolome de Medina—several others have been recently introduced to diminish the loss of mercury, and with considerable success. They consist chiefly of precipitated copper, and amalgams of zinc, copper, or iron, and are employed instead of lime to "cool" the torta. They have this advantage over lime, that the mercury instead of being precipitated as an oxyd and lost, is partly revivified by the electro-positive metal, and augments the product. They were first introduced by M. Lauckner, some years ago, and from ignorance have met with much opposition, but their importance may be judged from the fact stated above, of the influence which slight fluctuations in the value of mercury alone have upon the economy of the process, and anything tending to diminish this source of expense would be felt immediately throughout the whole mining region.

[To be Continued.]

The Dyke in the Whitlatch Union.

In our notice of the Whitlatch Union mine, two weeks since, we alluded to the report that the workmen some time since struck a dyke, in consequence of which the lead was lost, and after considerable search to find it again operations were suspended entirely for some two or three months. In allusion to this matter a correspondent writes to the Reese River *Reveille* as follows:

An erroneous opinion is entertained by some of the existence of a "dyke" in this celebrated mine. It is truly deplorable that so good a mine as this should have suffered so much from a disease known as dyke on the brain. That, the Whitlatch vein is cut by dyke is neither supported by theory or fact, as proven by the extensive explorations that have been made. You are misinformed as to the fact of work having been brought to a stand still by the interposition of a large dyke of porphyry and clay cutting the vein at oblique angles. I have worked in the mine six months and never saw it. "The investigations were carried on principally underground, and were characterized by Dr. Jackson as resembling the frantic efforts of a drowning beaver to escape pursuit, rather than the sober investigations of intelligent workmen." This was the unkindest cut of all. Admitting the dyke theory to be correct, much of the work was well directed. But that theory is abused, and I do not hesitate to take issue with the learned gentlemen who adopt such views. The fact is this mine is out of the region of extensive movements, and is cut by two perpendicular seams in the shape of a sickle the first making its appearance between the chloride and sulphurets. The connection has been made here, but it is by no wise a continuous vein, passing by like the blades of a pair of shears, the chloride belt seeming to be lifted up while the sulphuret seems to incline at a greater angle. All efforts so far have failed to solve the mystery as to how the ledge is at the second fault. But I predict no difficulty in the way if they will abandon the dyke theory, look for the ledge where they lost it, a thing not yet done, drift on the line of the movement, and ere long we may look with pride as we were wont to do, on one of the best mines of Nevada.

A line of steamships between France and Aspiawall will be established and ready to go into operation sometime during next month.

[Written for the Mining and Scientific Press.]

From the Slate Range Mines.

Eas. Press:—Our regular monthly mail arrived on the 5th ult., with a fine package of your interesting papers, including that of May 6th, containing a paragraph concerning our district, for which we are much obliged. I would, however, ask, if convenient, that you would correct the last statement that "four loads of sage brush runs the engine twelve hours," to twenty-four or over.

It may be of others, situated as we are among rich mineral leads in a desert country, that the fuel we use is not sage-brush, but a little brush in size and weight equal to a lady's open parasol, and when plucked up and thrown into windrows, is frequently blown by the gusts of wind clear out of sight. Yet with it we can in twenty minutes raise steam and start the stamps. It grows all over the plains, mixed with greasewood, which is coarser and larger and full of oil.

Our lead continues most encouraging, and fifty stamps could be kept constantly running from it if we had them. No selection of rock is made, but all between the casings from three to eight feet is passed through the mill. Messrs. Jeffrey & Co. (Cornish miners of much experience) speak of the Rochester lead, in respect to its course, width and quality, as superior to any gold lead they have ever seen.

In May last, a party of Indians visited the deserted camps of the Austrian and Broman Co's., on the hill, three or four miles from us, and destroyed and carried off considerable property, including ten jacks, belonging to the Rochester company, which we had out to pasture, in a cañon, not far distant from our camp. Mr. Senrles, with a dozen of his men, called on them, drove them out and broke up their camp, and recovered some of their missing articles. But the jacks were all eaten or jerked. A gold head, ring, and some wheels of a watch were found among their traps, which is almost sure to have belonged to Geo. Yarbrough, who was killed in El Paso last August. In the party was a big-footed Indian, whose track was seen in connection with the Yarbrough murder. On the 2d of June, while Messrs. John E. Yates and Jacob Baker (employees of this Co.) were trying to dig out a missed blast, in a cistern they were sinking, the charge exploded, throwing them some feet with great force. Yates received a terrible gash on the face, laying open the right side from the ear to the corner of the mouth and down to the point of the chin. This was neatly sewed up by Engineer Harvey, and is now well healed. One of his feet was badly bruised or wrenched and has not yet recovered. Baker was badly burned in the eyes, face and wrists and has not yet recovered the use of the left eye, and there is danger of its being permanently impaired.

Yesterday, July 1st, Captain McElroy and ten men of his cavalry company, stationed at Camp Drum, Wilmington, arrived with two teams loaded with baggage and forage, and on Tuesday, the 4th, they are to start out on a raid upon the Indians. C. W. T.

Slate Range, July 2d, 1865.

New Hay Press.—The Petaluma *Argus* gives the following description of a hay press recently invented by Mr. Wm. Moeh, of Sonoma county. It appears to be a most complete and serviceable machine. Its advantages can be noticed by any one at all conversant with the use of such machines. It is described as follows: "The press is worked by common horse-power, and the team is kept in constant motion. The press is fed just as grain is fed into a thresher, and the only interruption to this is in shipping the bale into a false chamber, which requires but a few seconds of time. It requires an active hand to tie the bale and have the false chamber in readiness to receive the next one. This discharging apparatus alone is a clear saving of time equal to the daily labor of one man. The hay passes between rollers into an oscillating chamber, where it falls in regular sheets or folds, and makes a compact bale so square and regular in shape that they can be piled up in almost as much regularity as brick. On trial, it turned out a bale every three minutes three feet six inches long, two feet deep and twenty-two inches wide, of an average weight of about one hundred and fifty pounds, and the hay was of the very dryest and lightest character."

Cannon Casting in Mariposa.—Messrs. Wilcox & Young, founders, at Bear Valley, Mariposa county, recently cast a cannon for home use, which they presented to the Union men of Hunter's Valley, Mariposa county.

[Written for the Mining and Scientific Press.]

A Trip to the Mountains.

NOTES FROM THE JOURNAL OF A. S. N.

CAMPO SECO.

In the vicinity of this place we visited three copper mines—the Copper Hill, Campo Seco and Lancha Plana. The Copper Hill mine is situated about two miles from the village, near the Mokelumne river. We saw at this place some fine shipping ore, although but a small quantity has been taken out of the mine. The ore is elevated by water power, the water for the machinery being supplied from the Mokelumne river, and conducted by a ditch for a distance of seven miles. The superintendent being absent, we were not furnished many items for our journal.

The Campo Seco mine is situated about one-half mile south and east from the Copper Hill. This mine is also worked by water power, the water being supplied by the ditch from the Mokelumne. The superintendent, Mr. Morell, very kindly invited us to descend the shaft and examine for ourselves. The shaft is over 200 feet deep. There are three drifts; the first at a depth of 90 feet; the second at 150, and the third at the depth of 200 feet. The width of the vein, where crossed, is twenty-two-and-a-half feet, although the shaft is not yet deep enough to determine the width of the principal vein or the value of the mine, and it is now paying all expenses of working. The company are satisfied with this, for the present, while they are drifting to ascertain the value of their claim. The average of the ores now taken out is about ten per cent. copper. The average of the ores which they ship is twenty per cent. The company are now reducing their poorer ores, near their works, by the "roasting process."

We were informed that a company had been organized for the purpose of erecting a smelting furnace near this mine. During the month of April and May ninety-three tons of ore were shipped, and during the month of June, forty-five tons.

We next visited the Lancha Plana mine, situated about one-half mile south of the Campo Seco. The company have a fine steam engine for their hoisting works. The shaft is 230 feet deep. At the depth of 160 feet the company are drifting for the purpose of obtaining air. The drift already extends over 300 feet. Considerable ore has been shipped from this mine, some of which is of a very fine quality. The width of the principal vein has not yet been ascertained.

These three mines all promise well, but whether there can be three large veins of copper so near each other is doubtful.

The placer mines in this vicinity are worked chiefly by Chinamen, who make their "four bits a day."

SAN ANDREAS.

Here we visited several mines of different descriptions. First, was a shaft sunk from the top of Douglas Hill into what is called a channel. This channel extends for several miles, and is filled with drift, composed of gravel, clay, talc, etc. It was evidently formed before the last upheaval in that section, and was an ancient river-bed, or estuary of the sea. The streams from the mountains do not flow in these ancient channels, but often by the side of them, and sometimes cross them; while immediately over these channels there are frequently high hills. The shaft on Doulgas Hill has been sunk to a depth of 110 feet, and the bottom of the channel is not yet reached. Where they have drifted from the shaft the bed-rock is found to be worn perfectly smooth by the action of the water at some former period. The drift taken out of this channel is washed, which produces large quantities of gold.

We next visitsd a quartz claim and saw some fine specimens of gold-bearing quartz. The vein is said to be very valuable, although but little has been done in the mine. The rock is elevated and the pumps worked by horse-power. The rock is also crushed in the old Spanish style, by the same horse-power, only one horse being used. My friend Willie noted it as a "one-horse concern." The claim is called the "Everlasting." The name was evidently suggested by their *modus operandi*. We have no doubt but that the claim is a valuable one, and that when men of capital and enterprise take up the work, it will pay very handsome dividends.

We next visited a tunnel on Gold Hill, which is being worked into the same channel, above mentioned. The tunnel slopes along down the bed-rock, giving a fine opportunity to examine its character. The rock has the appearance of any river-bed, being worn, undoubtedly, for a long period. The drift in the crevices of the bed-rock produces large quantities of gold, while the whole of the drift in the channel pays the miner well for taking it out and washing.

[To be continued.]

[Written for the Mining and Scientific Press.]

Letter from Virginia City—The Late Strike of the Jewel Company.

EDITORS PRESS:—Since my last, from Amador county, I have passed eastward, across the Sierra, to this place. For a stranger to know much of the business and mining interests of Virginia City and vicinity, requires a long time; everything here being managed on an extensive scale as compared with any place I have visited in California. After hurriedly examining the mining operations of this place, Gold Hill and Silver City, and with my ears yet ringing from the continual crash of machinery, driving of steam-engines and shrieking of whistles, I passed down the cañon to the celebrated "Devil's Gate district," situated in Spring valley, and about six miles southeast from Virginia City. A new excitement has taken place in this district in consequence of a very rich strike having been made in the "Jewel" ledge; and other companies in that vicinity are rushing their work in hope of finding the same vein. Through the kindness of the superintendent of the Jewel Gold and Silver Mining Company, who accompanied me into their tunnel, and showed me their ledge, I learn the following facts:

The Jewel Gold and Silver Mining Company was incorporated in San Francisco November 22, 1862, and is principally owned there by Mr. Parker and others; some 143 feet only, being owned here. The length of the claim is 600 feet, length of tunnel 990 feet, depth of shaft on the ledge, from the lower level of the tunnel, 30 feet—from the surface, about 135 feet. On the lower level of the tunnel, where the ore was first struck, small veins can be seen centering from different directions in a dark, decomposed mineral, which is mixed with barder quartz; the black being very rich and said to yield over $800 to the ton. At this point the ledge is less than two feet wide; at the depth of the shaft, or 30 feet down from the lower level of the tunnel, the lode widens to nearly six feet, and the rock becomes hard, and, as will be seen, widening rapidly as you go down. The whole labor on this claim has been done principally within the last eighteen months, by working an average of four men day and night. The first assay of the rock at the lower level of the tunnel, where first struck, gave the following result: Silver, $142.15; gold, $24.11; total $167.21 per ton. Thirty feet lower—the present depth of the shaft—a second assay was made, with the following result: Silver, $172.42; gold, $62.78; total, $235.20 per ton. These assays were made and certified to by Mr. Wm. H. Harris, assayer, and the rock was fairly averaged, as certified to by the same gentleman. It is confidently believed that in sinking some 100 feet lower, that the ledge will be from 25 to 30 feet wide, and the expense of sinking will be more than paid from the rock taken out, as the work progresses. Parties of mill men, and others, are daily visiting this "lucky ledge," and nearly all pronounce it the continuance of the celebrated "Comstock." The mineral has all the appearance of the Ophir or Yellow Jacket. North of, and near the Jewel, are the Sperry and Genesee companies, each running for the same ledge. The Sperry has a shaft 130 feet deep, and the Genesee, I learn, is at nearly the same depth. They are both hastily engaged erecting steam hoisting power. Part of the machinery is already on the ground, and they inform me it will be in operation in a few weeks.

In this valley, and east of the Jewel, is the Howley Gold and Silver Mining Company, having a wide, well-defined ledge, on which they have been running an incline shaft. They are down some 150 feet, having a fine steam hoisting engine. This company has not been doing anything for sometime; but I am told that it will be in operation again in a short time. On the Governor Nye, near the Hawley, they are busily engaged in sinking a shaft. The Governor Nye is on the north extension of the Dana, near that claim, with every prospect of striking it soon. They are now down 112 feet, and drifting southeast, with very flattering indications. Since the strike in this district, by the Jewel, parties from Carson and Virginia City, and surrounding country, have been locating claims rapidly, and every foot of ground for a great distance south, is being claimed. I send you some of the rock taken from the Jewel, and partly dug from the ledge by myself, from which you can form an idea of its general appearance. I expect soon to visit other localities near this, from whence I expect to give you something further of this rich mineral State of Nevada. L.

Virginia City, July 23, 1865.

Mechanical.

Strength of Cast Iron—Important Discovery.

Mr. W. M. Arnold has been making some experiments to improve the strength of iron, which promise to be of some considerable importance. Mr. Arnold, by using a small per centage of a metallic composition, added in a proper manner to cast iron, has succeeded in increasing its tensile strength from 25 to 50 per cent., and it is not doubted that by further treatment still greater strength will be attained, so that the weight of many descriptions of castings may be reduced fully one-third and yet be stronger than if cast in the ordinary manner. Tests of the iron as treated by Mr. Arnold's process have been made at the Morgan Iron Works and the Ward Iron Works, and the results are thus stated by the Superintendents of these Works:

1st. It is closer grained and more equal throughout the whole of its mass than castings of ordinary iron, which invariably show an unequally distributed, porous or coarser grain, and therefore a weaker and unreliable center.

2d. The composition iron is without a chilled exterior scale, and so much softer than ordinary cast iron; it can easily be filed, drilled, cut with screw thread, and planed.

3d. It also takes a fine steel-like polish, and, compared with the ordinary cast iron, on account of its softness and malleability, it saves to the workmen much labor and expense in grinding, hardening and sharpening tools.

4th. This iron being changed in its molecular composition is less liable to be corroded or otherwise acted upon by acids or salts.

5th. It is not apt to chill, and if cast in a chill mould, it does not, like ordinary cast iron, lose its softness and partial malleability, yet is rendered as even and compact as fine steel.

6th. By re-melting, or by repeated treatment with the proportioned alloy, the strength of this iron may be increased to two, three and four times the original tensile strength.

Prof. Fleury, a practical chemist, who witnessed the trial of the new composition at the Morgan Iron Works, gives the following interesting account of the process and its results:

The new process consists in liquifying a certain alloy, and adding about 6 per cent. of the same to the melted cast iron. About 200 pounds of common foundry cast iron was poured from a large reservoir into a ladle, and then subdivided into equal portions, about 100 to each, poured into two smaller ladles. The alloy had been previously melted in a crucible in the brass foundry, and while yet liquid and highly heated, added to the iron in one of these smaller ladles. To prevent the flying of sparks, a conical shaped cap, with a stove-pipe extending about six feet upward, was placed upon the ladle, and the alloy, through a lip, opening on the side of the cone, poured into the molten pig iron. A small quantity of borax, as a flux, was also thrown on the surface of the iron. A puff of white vapor, accompanied by a flame of yellowish red color, mixed with a few flames of a white bluish hue, rose rapidly from the surface of the pig iron, which for a moment boiled up, but quickly subsided. The two ladles, of which one contained the alloy, while the other was left without it, were then emptied at the same time into the previously prepared sand moulds. The treated iron exhibited a much greater fluidity, and cooled more gradually than the iron that contained no alloy.

After the pieces in the moulds had sufficiently cooled, the writer had a few of them broken, and compared their texture. A remarkably close, compact and uniform texture throughout the entire mass, distinguishes this iron at once from that containing no alloy, which latter was coarser grained in the center, while the grain in the former was uniform all through.

The side of one of the treated square pieces, filed and polished, exhibited a beautiful steel-like lustre, without any imperfection.

The tensile strength of two pieces, one of which had been prepared by the new process, was afterward tested at the U. S. Cannon Foundry, at Cold Springs, N. Y., and gave the following results:

The treated pieces broke at.....21,200 lbs.
The one not treated broke at.....12,000 lbs.

giving to Mr. Arnold's iron a difference in his favor of 9,000 lbs. Other testimonials from the Brooklyn Navy Yard, Ward, Trenton, U. S. Cannon Foundry and others, show that Mr. Arnold has succeeded in raising the strength of cast iron from 17,000 lbs. to the square inch, to 33,000 lbs., from which facts we may safely conclude a still greater strength perhaps extending to 40,000 or even 50,000 lbs., might be obtained by repeated treatment. A comparative test on two pieces of the same kind of iron of which one had been treated with various acids and salts, exhibited a remarkable difference in favor of Mr. Arnold's iron, which was very little acted upon when compared to the rapid corrosion of the others. The strengthened pieces were remarkably malleable and tough, requiring repeated hard blows of the hammer before breaking. They were ea... filed and drilled.

The deductions drawn from the facts are teresting, and present a large field to useful plications. As the tensile strength of iron can be nearly doubled by Mr. Arno process, the weight of our present castings all kinds of machinery for ships, bridges house building, for railroad car wheels, sh ings, chains, anchors, etc., can be reduced third, and still be stronger than at present.

The resistance to acids and salts may m it adaptable for casting propeller blades various other shipworks, for which a very pensive and heavy metal is used, such as c nearly three times the price for which strengthened iron of Mr. Arnold can be ma

For castings of common this iron may, account of its toughness and finer texture, haps, answer better than the more expens east steel. It seems even possible that t strengthened iron, after having been anneal enn be worked into armor plates, railro bars, and when hardened afterwards, as p posed by the inventor, cast into railroad tyr For cutlery, sewing machines, rifle and pist parts and agricultural implements, this pro erly annealed cast iron may prove of gre value.

In conclusion, the writer presents a f speculations as to the theory which he supp ses to underlie a remarkable change of textu that is produced by the addition of the alloy It is very probable that by the infusion of th metals of the alloy into the cast iron, the pores and interstices which exist between the molecules of iron are filled up, and cause a more regular and closer contraction while cooling. It might also be stated that the zinc of the alloy, finding some carbonic oxyd in solution, decomposes the same and causes the boiling up of the iron.

The yellowish red flame issuing from the iron, while the alloy is added, is a most remarkable incident, and a thorough chemical analysis to ascertain the quantity of carbon contained in the strengthened iron, would throw much light upon the subject.—*Railway Times.*

THE EXPECTANTS.—Who shall tell the hopes and fears that are stitched into little frocks for this form not yet seen! All the world over, the quiet, thoughtful brow of expectant womanhood bends over them silently. Sometimes a glad smile lingers on the lips; sometimes the busy hands lie idly folded over the soft cambric folds, as memory carries them back to their own childhood; just so their mother sat, with just such thoughts busy at heart and brain, before they were nestled in a mother's welcoming arms. Ah! never till now did they ever fully realize what a mother's love may be. Never till now did they retrace the steps of childhood, girlhood, and maturity, so carefully, to note all the Christ-like patience and tenderness to which those long years bear witness. Then solemnly comes the thought. "Just as I looked up to my mother, this little one will look up to me. Me!" Warm tears fall fast on the little frock that lies on the lap. "Me! Ah! how do I know that I shall teach it aright?" and with the happy love-thrill is mingled a responsibility so overwhelming that it cannot be born alone. Nor, thank God, need it be, nor is it. Ah! whatsoever fathers may think, mothers must needs look upward. The girl-mother, from that sweet, sacred moment, will rise, if ever, disenthralled from her past frivolity, and with the earnest, seal of a new baptism on her brow.—*Fanny Fern.*

THE HOLE IN THE SKY.—More remarkable perhaps, on account of singularity, says Vigne, in his travels in Mexico and South America, is the "Hole in the Sky," (for it appears to be nothing else), the dark space known, even to those who have not seen them, that one of the peculiarities of the southern heavens are dark, starless spaces, but the "coal-sack" may be termed black in comparison with the sky. It lies on the left of the cross as it faces an observer, and nearly touching the lower part of its major axis, which it equals in hight. The curious abruptness and freshness of the oval shaped and broken outline of its entire circumference suggests the idea of its having been formed by violence. It looks as though the canopy of heaven had been shot through. The edges of two or three folds of strata, so to speak, are seen on the left side, more particularly in receding perspective, and gradually leading to and blending in what appears to be black, lightless space beyond. Placed at the south pole, and so unlike anything else in the sky, it has an aspect of special design. It can be imagined a place of exit or egress for mighty rushing forces: the adit from the light to a Tophet of outer darkness, or a "black Gebenna" with the cross shining in front of it.

CANADA has profited by our war, but now is losing its population, and the newspapers of that country are distressed about it. In some quarters fully one-third of the people are leaving for the United States.

SALES OF THE WEEK

Saturday, July 22.

72 shs Ophir at 500 per foot.
12 shs Ophir at 495 per foot.
10 shs Uncle Sam at 300 per foot, s 3.
11 shs Uncle Sam at 300 per foot.
8 shs Chollar at 430 per foot
15 shs Chollar at 425 per foot.
12 shs Chollar at 427½ per foot, s 3.
20 shs Chollar at 427½ per foot.
20 shs Chollar at 420 per foot, s 3.
4 shs Chollar at 435 per foot.
10 shs Potosi at 415 per foot.
56 shs Potosi at 420 per foot.
12 shs Potosi at 422 per foot.
4 shs Potosi at 430 per foot, b 15.
14 shs Potosi at 440 per foot, b 30.
52 shs Potosi at 422½ per foot.
2 shs Yellow Jackot at 1050 per foot.
12 shs Yellow Jacket at 1055 per foot.
2 shs Yellow Jacket at 1060 per foot, s 3.
1 sh Yellow Jacket at 1065 per foot.
1 sh Yellow Jacket at 1070 per foot.
1 sh Yellow Jacket at 1075 per foot.
2 shs Yellow Jacket at 1090 per foot.
3 shs Yellow Jacket at 1110 per foot.
2 shs Savage at 1300 per foot.
21 shs Belcher at 840 per foot.
4 shs Crown Point at 950 per foot
4 shs Crown Point at 945 per foot.
16 shs Crown Point at 930 per foot.
4 shs Hale & Norcross at 660 per foot.
30 shs Sierra Nevada at 14 per share.
25 shs Burning Moscow at 32½ per share.
40 shs Burning Moscow at 33 per share.
10 shs Burning Moscow at 33 per share, s 3.
35 shs Burning Moscow at 33½ per sh.
10 shs Burning Moscow at 34 per share.
4 shs Imperial at 228 per share.
5 shs Imperial at 228 per share, s 3.
5 shs Imperial at 229 per share.
17 shs Imperial at 230 per share.
10 shs N. American, Ex Sam, at 40¼ per sh.
30 shs N. American, Ex Sam, at 41, s 3.
10 shs N. American, Ex Sam, at 41½ per sh.
10 shs N. American, Ex Sam, at 42 per sh.
10 shs N. American, Ex Sam, at 44, b 5.
30 shs N. American, Ex Sam, at 43½ per sh.
10 shs Nevada, J. O., at 19 per share.
5 shs Nevada (J. G.) at 20 per share.
25 shs Nevada, J. G., at 20 per share, s 3.
5 shs De Soto at 10 per share.
50 shs N B & Mission R R at 100½ per cent.
No afternoon session.
Amount of sales.....$ 90,250 00

Monday, July 24.

24 shs Ophir at 485 per foot.
12 shs Ophir at 475 per foot.
12 shs Ophir at 475 per foot, s 3.
96 shs Ophir at 465 per foot.
4 shs Uncle Sam at 300 per foot.
8 shs Uncle Sam at 300 per foot, b 5.
13 shs Uncle Sam at 297½ per foot.
3 shs Uncle Sam at 298 per foot.
4 shs Potosi at 425 per foot.
4 shs Potosi at 422½ per foot.
2 shs Potosi at 422 per foot.
2 shs Potosi at 421 per foot.
4 shs Potosi at 420 per foot, s 3.
2 shs Yellow Jacket at 1175 per foot.
3 shs Yellow Jacket at 1195 per foot.
11 shs Yellow Jacket at 1200 per foot.
4 shs Crown Point at 950 per foot.
4 shs Crown Point at 937½ per foot.
4 shs Crown Point at 935 per foot.
8 shs Alpha, G H, at 1460 per foot.
4 shs Alpha, G. H., at 1440 per foot.
4 shs Alpha, G. H., at 1420 per foot,
4 shs Alpha, G. H., at 1410 per foot.
4 shs Alpha, G H, at 1400 per foot.
12 shs Alpha, G H, at 1400 per foot, s 3.
21 shs Belcher at 345 per foot.
20 shs Chollar at 430 per foot,
8 shs Chollar at 432½ per foot.
6 shs Gould & Curry at 1700 per foot.
1 sh Confidence at 145 per share.
2 shs Hale & Norcross at 576 per foot.
3 shs Hale & Norcross at 580 per foot.
119 shs Sierra Nevada at 13 per sharo.
10 shs Burning Moscow at 30½ per share.
30 shs Burning Moscow at 30 per share.
100 shs N. American, Ex Sam, at 43 per sh.
20 shs N. American, Ex Sam, at 43¼, r w.
30 shs N. American, Ex Sam, at 43, r w.
10 shs De Soto at 10 per share,
10 shs Buckeye 8 per sharo.
20 shs Imperial at 232½ per share, s 3.
2 shs Imperial at 233 per share.
25 shs Golden Age & Empire at 7 per share.
64 shs Spring Valley W W at 50 per cent.
2 shs Cal. Steam Nav. Co. at 75 per cent.
$10,000 U. S. 7-30 Bonds at 75 per cent.
$15,000 U. S. 5-20 Bonds at 74⅛ per cent.
$49,000 Legal Tender Notes at 74¼ per cent.
$ 5,000 Legal Tender Notes at 74¼ p ct, s 3.
$ 1,000 Legal Tender Notes at 74⅛, b 3.

AFTERNOON SESSION.

6 shs Potosi at 420 per toot.
82 shs Potosi at 425 per foot.
22 shs Potosi at 425 per foot, s 3.
42 shs Potosi at 426 per toot.
58 shs Potosi at 427½ per foot.
24 shs Potosi at 427 per foot.
4 shs Potosi at 428 per foot.
10 shs Potosi at 427½ per foot, s 3.
10 shs Potosi at 430 per foot, b 3.
24 shs Potosi at 4 0 per foot.
3 shs Belcher at 850 per foot.
3shs Belcher at 855 per toot.
1 sh Uncle Sam at 300 per foot.
1 sh Uncle Sam at 295 per foot.
5 shs Uncle Sam at 290 per foot.
1 sh Yellow Jacket at 1160 per foot, s 30.
1 sh Yellow Jacket at 1135 per foot.
1 sh Yellow Jacket at 1140 per foot, s 30.
108 shs Ophir at 475 per foot.
12 shs Ophir at 470 per foot.
12 shs Crown Point at 930 per foot.
4 shs Crown Point at 940 per foot.
16 shs Crown Point at 945 per foot.
2 shs Hale & Norcross at 590 per foot.
2 shs Hale & Norcross at 595 per foot.
6 shs Hale & Norcross at 600 per foot.
2 shs Hale & Norcross at 605 per foot.
2 shs Hale & Norcross at 610 per foot.
1 sh Bullion at 175 per share.
20 shs Sierra Nevada at 14 por share.
10 shs Sierra Nevada at 14½ per share.
30 shs Sierra Nevada at 15 per share.
1 sh Imporial at 237½ per share.
$ 7,000 Legal Tender Notes at 74½ per cent
Amount of sales.....$340,595 00

Tuesday, July 25.

64 shs Chollar at 445 per foot.
20 shs Chollar at 450 per foot, b 30.
96 shs Potosi at 435 per foot.
6 shs Potosi at 430 per foot, r w.
5 shs Uncle Sam at 280 per foot.
10 shs Uncle Sam at 275 per foot.
4 shs Hale & Norcross at 600 per foot
22 shs Hale & Norcross at 590 per foot.
2 shs Hale & Norcross at 590 per foot, r w.
2 shs Hale & Norcross at 600 per foot, b 3.
20 shs Crown Point at 945 per foot.
4 shs Crown Point at 950 per foot, r w.
4 shs Crown Point at 950 per foot.
48 shs Ophir at 465 per foot.
12 shs Ophir at 465 per foot, r w.
3 shs Yellow Jacket at 1100 per foot.
4 shs Yellow Jacket at 1090 per foot.
2 shs Yellow Jacket at 1085 per foot.
5 shs Belcher at 830 per foot.
41 shs Imperial at 240 per share.
10 shs Imperial at 240 per share, s 3.
1 sh Imperial at 238 per share.
10 shs Imperial at 235 per share.
10 shs Sierra Nevada at 15 per share.
40 shs Sierra Nevada at 14½ per share.
10 shs Sierra Nevada at 15 per share, b 15.
20 shs Sierra Nevada at 15 per share, b 5.
30 shs Sierra Nevada at 14¾ per share.
126 shs N. American, Ex Sam, at 41 per sh.
1 sh North S. F. Homestead, 20 per share.
5 shs Cal. Steam Nav. Co. at 75 per cent.
$ 1,000 Legal Tender Notes at 74¼ per cent.

AFTERNOON SESSION.

22 shs Ophir at 450 per foot, s 69.
52 shs Chollar at 441 per foot.
20 shs Chollar at 440 per foot.
10 shs Uncle Sam at 260 per foot.
9 shs Uncle Sam at 255 per foot.
4 shs Uncle Sam at 250 per foot.
9 shs Uncle Sam at 245 per foot.
2 shs Uncle Sam at 252 per foot.
1 sh Uncle Sam at 252½ per foot.
5 shs Potosi at 450 per foot.
18 shs Potosi at 426 per foot.
4 shs Potosi at 430 per loot, r w.
5 shs Overman at 250 per foot.
5 shs Overman at 240 per foot.
12 shs Crown Point at 945 per foot.
3 shs Belcher at 820 per foot.
3 shs Belcher at 821 per foot.
90 shs Golden Rule at 10 per share.
20 shs Sierra Nevada at 15 per share.
10 shs Sierra Nevada at 15 per share, b 3.
10 shs Sierra Nevada at 14½ per share.
110 shs Sierra Nevada at 14¾ per share.
30 shs Imperial at 232 per share.
9 shs Bullion at 172½ per share.
40 shs N. American, Ex Sam, at 41 per sh.
20 shs N. American, Ex Sam, at 40 per sh.
10 shs N. American, Ex Sam, at 40, s 5.
25 shs N. American, Ex Sam, at 40, s 3.
10 shs Burning Moscow at 32 per share.
10 shs Wide West at 7¼ per share.
6 shs North S. F. Homestead, 20 per share.
$25,000 Legal Tender Notes at 74½ per cent
Amount of sales.....$150,710 00

Wednesday, July 26.

2 shs Savage at 1275 per foot, r w.
2 shs Uncle Sam at 262½ per foot.
2 shs Uncle Sam at 260 per foot, s 3
2 shs Uncle Sam at 26⁰ per foot, r w.
30 shs Uncle Sam at 255 per foot.
5 shs Uncle Sam at 250 per foot.
10 shs Uncle Sam at 275 per foot
4 shs Yellow Jacket at 1100 per foot.
1 sh Yellow Jacket at 1100 per foot, s 3.
3 shs Yellow Jacket at 1110 per foot.
10 shs Potosi at 415 per foot.
10 shs Potosi at 410 per foot.
28 shs Potosi at 395 per foot.
64 shs Potosi at 390 per foot.
10 shs Potosi at 385 per foot.
10 shs Potosi at 390 per foot, r w.
40 shs Potosi at 387½ per toot,
10 shs Potosi at 387½ per foot, s 3.
14 shs Potosi at 397½ per share.
40 shs Potosi at 397½ per foot s 3.
10 shs Potosi at 400 per foot, r w.
4 shs Potosi at 392½ per foot.
24 shs Potosi at 3 8 per foot.
20 shs Potosi at 399 per toot, r w.
24 shs Ophir at 465 per foot.
24 shs Ophir at 467½ per foot.
12 shs Ophir at 470 per foot.
3 shs Overman at 260 per foot.
5 shs Overman at 255 per foot.
16 shs Chollar at 400 per foot.
4 shs Chollar at 407½ per foot.
40 shs Chollar at 405 per foot.
28 shs Chollar at 410 per foot.
30 shs Golden Rule at 10 per shnre.
270 shs Sierra Nevada at 15½ per share.
20 shs Sierra Nevada at 15 per share.
30 shs Sierra Nevada at 10 per share, b 3.
60 shs Burning Moscow at 31 per share.
8½ shs Burning Moscow at 30 per share.
25 shs Caledonia Tunnel at 6 per share.
130 shs N. American, Ex Sam, at 40 per sh.
20 shs N. American, Ex Sam, at 41 per sh.
10 shs Cole Val. at 4 per share.
10 shs Gold Hill Tunnel at 3½ per share.
2 shs Imperial at 232 per share.
3 shs Imperial at 233 per share.
10 shs Imperial at 234 per share.
4 shs Imperial at 234 per share, r w.
10 shs N. S. F. Homestead at 20 per share.

AFTERNOON SESSION.

10 shs Potosi at 400 per foot.
5 shs Potosi at 405 per foot.
46 shs Potosi at 410 per foot.
4 shs Potosi at 412½ per foot.
46 shs Potosi at 415 per foot.
4 shs Potosi at 418 per foot.
8 shs Chollar at 420 per foot.
20 shs Chollar at 425 per foot, s 30.
21 shs Chollar at 425 per foot.
73 shs Chollar at 450 per foot.
4 shs Chollar at 435 per foot.
24 shs Chollar at 437½ per foot.
1 sh Yellow Jacket at 1135 per foot.
2 shs Yellow Jacket at 1125 per foot.
1 sh Yellow Jacket at 1130 per foot.
7 shs Yellow Jacket at 1120 per foot.
1 sh Yellow Jacket at 1115 per foot.
24 shs Ophir at 467½ per foot.
60 shs Ophir at 465 per foot, s 30.
72 shs Ophir at 470 per foot.
50 shs Ophir at 480 per foot, s 30.
12 shs Ophir at 468 per foot.
16 shs Crown Point at 940 per foot.
3 shs Belcher at 825 per foot.
20 shs Sierra Nevada at 17½ per share.
100 shs Sierra Nevada at 17 per share.
30 shs Sierra Nevada at 18 per share.
250 shs Sierra Nevada at 18½ per share.
10 shs Burning Moscow at 31½ per share.
10 shs N. American, Ex Sam, at 41¾, s 3.
Amount of sales.....$185,625 00

Thursday, July 27.

132 shs Ophir at 445 per foot.
84 shs Ophir at 450 per foot.
5 shs Belcher at 820 per foot.
3 shs Belcher at 815 per foot.
3 shs Belcher at 805 per foot.
4 shs Potosi at 407½ per foot.
14 shs Potosi at 410 per foot, s 3.
4 shs Potosi at 412½ per foot.
4 shs Potosi at 410 per foot.
4 shs Alpha at 1412½ per foot, s 3.
3 shs Uncle Sam at 255 per foot.
1 sh Uncle Sam at 255 per foot, r w.
4 shs Crown Point at 890 per foot.
4 shs Crown Point at 875 per foot.
3 si s Yellow Jacket at 1110 per foot.
1 sh Yellow Jacket at 1105 per foot.
1 sh Yellow Jacket at 1100 per foot, s 3.
19 shs Overman at 230 per foot.
10 shs Sierra Nevada at 17 per share.
65 shs Sierra Nevada at 18½ per sharo.
80 shs Sierra Nevada at 19 per share.
24 shs N. American, Ex Sam, at 40 per sh.
40 shs N. American, Ex Sam, at 39 per sh.
10 shs Burning Moscow at 31 per share.
20 shs De Soto at 10½ per share.
5 shs Imperial at 230 per share.
1 sh Imperial at 23.½ per share.

AFTERNOON SESSION.

44 shs Potosi at 420 per foot.
20 shs Potosi at 420 per foot, s 3.
20 shs Potosi at 422 per foot.
15 shs Potosi at 418 per foot.
20 shs Potosi at 415 per foot, b 3.
2 shs Potosi at 422½ per foot.
62 shs Potosi at 415 per foot.
10 shs Potosi at 417½ per foot.
12 shs Potosi at 417½ per foot, b 3.
2 shs Chollar at 440 per foot.
60 shs Chollar at 437½ per foot.
8 shs Chollar at 438 per foot.
12 shs Chollar at 432½ per foot.
20 shs Chollar at 430 per foot, s 30.
12 shs Ophir at 440 per foot.
4 shs Yellow Jacket at 1140 per foot.
shs Yellow Jacket at 1120 per foot.
1 sh Yellow Jacket at 1130 per foot.
1 sh Yellow Jacket at 1125 per foot.
2 shs Yellow Jacket at 1125 per foot, s 3.
4 shs Yellow Jacket at 1140 per foot, b 30.
1 sh Yellow Jacket at 1076 per foot, s 30.
9 shs Belcher at 805 per foot.
5 shs Overman at 245 per foot.
20 shs Uncle Sam at 275 per foot.
5 shs Uncle Sam at 270 per foot.
2 shs Uncle Sam at 267 per foot.
25 shs Imperial at 230 per share.
5 shs Imperial at 229 per share
10 shs Imperial at 228 per share.
11 shs Imperial at 227½ per share.
10 shs Sierra Nevada at 18 per sha2e.
20 shs Sierra Nevada at 18½ per sh, r w.
120 shs Sierra Nevada at 18½ per share.
5 shs Burning Moscow at 31 per share.
4 shs Cal Steam Nav Co at 75½ per cent.
$ 5,000 Legal Tender Notes at 74, b 20.
$ 5,000 Legal Tender Notes at 75¾ per cent.
Amount of sales.....$138,020 00

Friday, July 28.

168 shs Ophir at 485@4⁸5 per foot.
9 shs Uncle Sam at 265 3272½ per foot.
22 shs Uncle Sam at 2⁶5@270 per foot.
7 shs Yellow Jacket at 1125@1120 per foot.
63 shs Potosi at 475@480 per foot.
4 shs Potosi at 470 per foot, s 30.
8 shs Potosi at 500 per foot, b 30.
14 shs Potosi at 485@490 per foot, s 3.
9 shs Belcher at 8⁰0@910 per foot.
124 shs Chollar at 445@448 per foot.
15 shs Bullion at 185 per share.
15 shs Imperial at 226 per share.
5 shs Sides at 80 per foot.
115 shs Burning Moscow at 31@33 pr share.
1 sh Savage at 1200 per foot.
21 shs Confidence at 160@165 per sharo.
30 shs Lady Bryan at 5 per share.
160 shs Sierra Nevada at 19@22½ per share.
50 shs N. American, Ex Sam, at 41 per sh.
10 shs Caledonia Tunnel at 7 per share.
1 sh Cal S Nav Co at 76 per cent.

AFTERNOON SESSION.

72 shs Ophir at 400@395 per foot.
4 shs Yellow Jacket at 1130@1150 per foot.
3 shs Yellow Jacket at 1160 per foot
1 sh Yellow Jacket at 1130 per foot, s 30.
1 sh Yellow Jacket at 1150 per foot.
21 shs Imperial at 228@229 per share.
86 shs Potosi at 480@482½ per foot.
4 shs Confidence at 170@165 per share.
31 shs Uncle Sam at 272½ per share.
168 shs Chollar at 455@465 per foot.
27 shs N. American, Ex Sam, at 40¾@41.
10 shs Pacific Insurance at 142 per cent.
6 shs Belcher at 790 per foot, s 30.
59 shs Sierra Nevada at 2⁵@25 per share.
25 shs Bullion, G H, at 160 per share
10 shs Burning Moscow at 32½ per share.
40 shs Raney at 15 per share.
$ 5,000 Legal Tender Notes at 73¾ per cent.
Amount of sales.....$163,140 00

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, July 29th, 1865.

The money market exhibits a fair degree of activity, with a full supply of accessible means for loan purposes, upon good securities, a 1¼@1½ ₱ cent. per month in bank. Negotiations are reported at rates even more favorable to the borrower; but these transactions are of a peculiar nature, and do not, perhaps, reflect the actual condition of the market. Out-door transactions are made at the rate of 1½@2½ ₱ cent. per month.

Receipts of treasure from the interior mining districts since Saturday last amounted to $850,000, making an aggregate of $4,000,000 thus far the current month.

In the absence of an active shipping demand for bullion, the market remains dull. Gold bars have been taken to account, by bankers and others, this week, at 820@825, and silver is selling at from ¼ ₱ cent premium to 2 ₱ cent. discount.

Legal Tender Notes were dealt in to the extent of $65,000, at 74⅛@74¼c. then sold at 73¾c, and closed at 73⅝c bid, 74c asked. Some $25,000 7-30 U. S. Bonds (June 15th issue) were sold, with accrued interest, at 74½@74⅝, and are now held at 74¾. Our latest advices from the East quote gold at 142 on the 20th inst., and mention considerable shipments of Government securities abroad on European account.

The share market continues stagnant, and nearly all leading stocks have been offered this week at lower prices. The present financial condition of some of these companies is less flattering than it was supposed they would be at the close of the current month, and if no important developments are made at an early day, still less confidence will be felt in their future productiveness. The work of exploration progresses, however, with the utmost vigor, and no expense is spared to bring to light the hidden treasures of the Comstock lode.

Gould & Curry is in less favor, declining from $1,750 to $1,700, and now offered at $1,575. The lower drift, from the D street shaft, has disclosed nothing new during the week, and is now passing through a stratum of porphyry similar to that found above in the old works. The entire product of the mine this month, from the upper levels, has averaged 1000 tons of ore per week, a portion of which is being reserved for future use. The company have already a large accumulation of good ore on hand, but propose to increase this surplus.

Alpha is in better request, and 10 feet were sold, declining from $1,460 to $1,400, rallying to $1,500, and closing at $1,600 asked. An assessment of $90 per share, or $360 per foot, has been levied upon this stock, making in all thus far, $720 per foot. This assessment, it is said, will cancel all the liabilities of the company.

Yellow Jacket has been actively dealt in at fluctuating rates; opening at $1,040, advancing to $1,200, declining to $1,085, rallying to $1,135, receding to $1,100, and closing at $1,150. It is rumored that a large assessment will be levied at an early day to liquidate the indebtedness of this company, but so far as we can learn, no official action has been taken in the premises, nor is an assessment contemplated at present by the trustees. Recent advices represent an improvement in certain portions of the mine.

Savage has been exceedingly dull, and small sales were made at rates declining from $1,300 to $1,250, closing at $1,200 asked. We are advised of no improvement in this mine. An adjourned meeting of the stockholders was held yesterday, but no quorum was present.

Crown Point declined from $950 to $875, and was held yesterday at $875. The main shaft is now down 285 feet from the surface, and 55 feet from the 230 feet-level. The presence of a large volume o water impedes operations, however, at the present depth, and some time will be required to open a new level.

Belcher has also obtained less favor, and some 34 feet changed hands, advancing from $840 to $855, declining to $805, and selling at the close at $800@810. Hale & Norcross rose from $560 to $610, fell to $590, rallied to $600, and closes at about $590 asked.

Ophir has been more actively dealt in, and 88 feet were sold, declining from $500 to $445, seller 30, rallying to $468, dropping to $385 cash, and closing at $395@400. The second trial of the Burning Moscow vs. this company, having resulted in a disagreement of the jury, as was stated last week, a motion to change the place of the next trial has since been granted at the instance of the Moscow company. The receipts of bullion from the Ophir mine, during the past four weeks, amounted to $45,000, but the present liabilities of this company exceed $50,000, and are likely to be further increased.

Empire Mill & Mining company is inactive, but well controlled, and firmly held at about $500 per share. The ore in the lower levels is said to show a decided improvement, and the future prospects of the mine are thought to be quite flattering. The usual dividend of $20 per share will be declared out of the earnings of the present month.

Chollar has continued to attract some attention, and 216 feet were sold, advancing from $425 to $445, receding to $400, rallying to $437, and changing hands yesterday at $448@465.

Potosi has been exceedingly active, and 661 feet were dealt in, rising from $415 to $435, dropping to $385, rallying to $410, then selling at $422, and closing at $480@482½, assessment of $50 delinquent. Recent developments in this mine are said to be rather more favorable.

Uncle Sam has been less active and also in less request this week. Some 300 feet were sold, receding from $300 to $245, advancing to $275, declining to $255, then selling at $260, and closing at $272@273.

Overman fell to $230, rallied to $260, again declined to $230, and closes at about $250. A recent crushing of 100 tons of ore at the Vivian mill is said to be favorable. From the different levels the company anticipate hoisting for the present an average of some $60 tons per day. The lower level now discloses, it is said, a large body of good ore. On the 406-feet level the drift is now 160 feet distant from the shaft.

Imperial has been moderately dealt in within a range of $226@240, closing at $228. The receipts of bullion for the current month, will, it is thought, exceed $110,000—being some $40,000 in excess of last month. A larger dividend is anticipated. The mine is said to be looking well.

Bullion fell from $172 to $172½, and closed at $160. Burning Moscow fell from $34 to $30, rallied to $31½, and closed at $35½. Nevada J. G., was sold at $19@20, and De Soto at $10@10½.

Sierra Nevada has revived a little, and some 1200 shares were sold, steadily advancing from $14 to $19, then selling at $22½, and closing at $25. In stopeing up from the lower level, some favorable indications have been met with, it is said. North American rose from $40 to $44, fell to $40, and closed at about $41½

The recorded sales of Stocks and Legal Tender Notes, since Saturday last, amounted in the aggregate to $948,340

MECHANICS' FAIR.

DAILY PRESS.

The Proprietors of the MINING AND SCIENTIFIC PRESS having been granted the privilege of printing the DAILY PRESS at the Pavilion, during the approaching Exhibition, are making complete arrangements to publish a full and faithful record of the Grand Exhibition, and will present gratuitously to all visitors and exhibitors the LARGEST, most ATTRACTIVE and VALUABLE paper ever issued at a public fair.

Its Free and Extensive Circulation

will render it peculiarly desirable journal for advertising. From SEVEN to EIGHT THOUSAND individuals visited the exhibition last season in a single day and evening.

Our printing press, in active operation, rapidly throwing off an interesting sheet into the very hands of the anxious throng, presents an attractive scene, affording one of the most novel and effective modes of advertising ever offered through the columns of a newspaper. Many persons being eye-witnesses to the printing of the paper, preserve copies as reminiscences of their visit to the Fair, while others procure bound volumes to be retained as a permanent record of the Exhibition, giving a further benefit to advertisers in addition to its wide circulation.

Those wishing to secure space for advertising in the MECHANICS' FAIR DAILY PRESS, will do well to make early application to the proprietors or their agents.

Payment will not be solicited until after the advertisements appear and are found to be according to contract or the satisfaction of the advertiser.

DEWEY & CO.,

Patent Agents, Publishers of the Mining and Scientific Press, and Job Printers, 505 Clay street, San Francisco.

Notices of the Press.

Following are a few of the select compliments paid the first volume of the DAILY FAIR PRESS, last season:

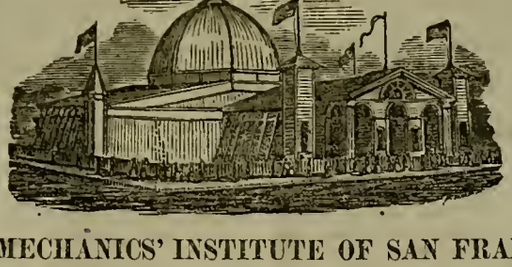
THE SCIENTIFIC PRESS proprietors strike off and give away thousands of their little sheet, entitled THE MECHANICS' FAIR DAILY PRESS. The second issue of this paper, published last night, gave the multitude some intelligence of the Washoe disaster. There were great crowds all the evening about the telegraph and the presses, many of whom had their first sight at the practical working of these great motors of civilization.—[S. F. Evening Bulletin, Sept. 7, 1864.

SCIENTIFIC PRESS.—A printing office has been established at the Mechanics' Fair, and Messrs. Dewey & Co., the enterprising publishers of the MINING AND SCIENTIFIC PRESS, are issuing from it a handsome double-sheet daily, which is a credit to themselves, its editors, and to the Fair.—[S. F. Morning Call, Sept. 8, 1864.

THE MECHANICS' FAIR DAILY PRESS is the title of a very neat quarto paper published at the Industrial Fair Pavilion, by Dewey & Co., of the MINING AND SCIENTIFIC PRESS. It reflects great credit, as does the weekly, upon the enterprise and ability of the publishers. We want it regularly.—[Roese River Reveille.

SUMMER FRUITS.—The following facts are worth reading and remembering, especially at the present season of the year: "Acids promote the separation of bile from the blood, which is then passed from the system, thus preventing levers, the prevailing disease of summer. All fevers are "bilious," that is, the bile is in the blood. Whatever is antagonistic of fever is cooling. It is a common saying that fruits are "cooling," and also herries of every description. It is because the acidity which they contain aids in separating the bile from the blood, that it aids in purifying the blood. Hence the great yearning for greens, and lettuce, and salads in the early spring, these being eaten with vinegar; hence, also the taste for something sour, for lemonade on an attack of fever. But this being the case, it is easy to see we nullify the good effects of fruits and berries, in proportion as we eat them with sugar, or even sweet milk or cream. If we eat them in their natural state, fresh, ripe, perfect, it is almost impossible to eat too many, to eat enough to hurt us, especially if we eat them alone, not taking any liquid with them whatever."

THE FIFTH INDUSTRIAL FAIR



OF THE MECHANICS' INSTITUTE OF SAN FRANCISCO,

To be Held in the Mechanics' Institute Pavilion in August, 1865.

The Mechanics' Institute having determined to hold their Fifth Industrial Fair during the coming season, the Executive Committee would respectfully invite all persons desirous of exhibiting Machines, Manufactures, Agricultural Implements, Horticultural Products, Minerals, Ores, and Works of Art, to make application immediately, in order that the proper space may be allotted them.

The Exhibition will be open to the public on Thursday, the 10th day of August, at 10 o'clock A. M.

The general management of the Fair is entrusted to an Executive Committee, consisting of the officers of the Institute.

No contracts or agreements will be recognized unless made by the authorized agents of this Committee.

A competent person will be in attendance at the Pavilion to receive and register all goods designed for exhibition, and will receipt therefor.

Contributions of Machinery and other articles that require long time to prepare for exhibition, will be received from the 15th of July to the 2d of August.

Articles for exhibition that require large space may be entered on or before the 20th day of July, and space will be allotted to the exhibitor on or before the 2d of August.

The Picture Galleries will be ready for the reception of Pictures, Embroideries, Wax and Fancy Work of all kinds, on the 1st of August, when space will be allotted.

The Committee will be prepared for the reception of Fruits, Flowers, Agricultural and Horticultural Productions, and design to have the tables so arranged that the best display possible can be made in this department, and every effort will be made and care taken to preserve their freshness, so that exhibitors may receive full credit for their productions. Those wishing space on these tables should engage it at an early day. There will be space reserved for additions in this department during the Fair.

The several transportation companies, as on former occasions, have, with commendable liberality, consented to transport articles intended exclusively for exhibition free of charge, and Messrs. Wells, Fargo & Co., in like manner, will take charge of them.

The Committee have the fullest confidence that the coming Fair will not only be the most complete and varied in its character, but will also be more attractive than any previous exhibition of this kind ou this coast.

No pains or expense will be spared to give the contributors satisfactory opportunities in the spacious pavilion of the Institute for the display of their contributions, and to furnish whatever may be necessary to make the Fair an institution where those who frequent it may be both pleased and instructed.

All articles forwarded should be labeled "For the Industrial Exhibition," San Francisco.

All communications to be addressed to C. S. HIGGINS, Corresponding Secretary.

EXECUTIVE COMMITTEE.

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P. B. DEXTER, Secretary.

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 50	@	7 00
Do Superfine	5 50	@	5 75
Corn Meal, ₱ 100 lb	3 00	@	4 00
Wheat, ₱ 100 lb	1 70	@	1 05
Oats, choice, ₱ 100 lb	1 75	@	1 95
Barley, ₱ 100 lb	1 00	@	1 05
Beans, ₱ lb	3	@	4 00
Potatoes	1 50	@	2 00
Hay, ₱ ton	11 00	@	13 00
Live Oak Wood, ₱ cord	8 00	@	10 00
Beef, on foot, ₱ lb	8	@	10
Beef, extra, dressed, ₱ lb	16	@	22½
Sheep, on foot	1 00	@	2 00
Hogs, on foot, ₱ lb	8	@	12
Hogs, dressed, ₱ lb	12	@	15
Groceries, Etc.			
Sugar, crushed, ₱ lb	15	@	16
Do China	12½	@	13
Coffee, Costa Rica, ₱ lb	22	@	23
Do Rio	22	@	
Tea, Japan, ₱ lb	85	@	95
Do Green	70	@	90
Hawaiian Rice, ₱ lb		@	10
China do.	10	@	
Coal Oil, ₱ gal	1 05	@	1 10
Candles, ₱ lb	20	@	24
Roch Butter, ₱ lb	40	@	45
Isthmus do	32	@	35
Cheese, California, ₱ lb	20	@	25
Eggs, ₱ doz	45	@	50
Lard, ₱ lb	23	@	25
Ham and Bacon, ₱ lb	23	@	25
Shoulders	15	@	18

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	45	@	50
do pickled ₱ lb	40	@	50
do Oregon	30	@	35
do New York, ₱ lb	30	@	37½
Cheese, ₱ lb	20	@	25
Honey, ₱ lb	40	@	50
Eggs, ₱ doz	50	@	65
Lard, ₱ lb	25	@	
Hams and Bacon, ₱ lb	20	@	25
Cranberries, ₱ gal	75	@	
Potatoes, sweet, ₱ lb	6	@	8
do Irish, ₱ lb	4	@	5
Tomatoes, ₱ lb	10	@	10
Onions, ₱ lb	6	@	6
Apples, No. 1, ₱ lb	8	@	10
Pears, table ₱ lb	6	@	10
Plums, dried, ₱ lb	10	@	15
Peaches, dried, ₱ lb	10	@	15
Grapes, Forcing, ₱ lb	25	@	50
Oranges, ₱ 100	2 50	@	3 00
Lemons, ₱ 100	5 00	@	6 00
Chickens, apiece	1 00	@	1 25
Turkeys, ₱ lb	37½	@	
Wild Ducks, ₱ doz	4 00	@	6 00
Oysters, ₱ 100	1 00	@	1 25
Fish, Fresh, ₱ lb	5	@	20

NOTICE.

The co-partnership heretofore existing between John Youngberg, Stephen H. Covert and William B. Gleason, is hereby dissolved by reason of the said Gleason and Covert having left for the East. This is to notify all persons that I shall pay no debts contracted by the said parties from and after this date. JOHN YOUNGBERG.

San Francisco, May 15th, 1865. 20v10-1m

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Friends pleased with our efforts in the publication of this PRESS can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

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Mining Summary.

WASHOE.

Owing to the general change which has recently been introduced into the management of the mines in and about Virginia City, there is now a marked scarcity of ore for the mills in that locality, and as a consequence, the price of crushing has been reduced from $22 and $25, to $17 and $18; while there is also quite a falling off in the weekly shipments of bullion. This apparent lack of prosperity is, in reality, one of the most hopeful features which has yet been noticed in that important region. The change alluded to is the abandonment of the practice which has heretofore obtained, of exhausting the mines of their richest ores, without taking the precaution to push ahead with those preliminary explorations which are indispensable to a future and continuous working of all mines. The necessary consequence has been a depreciation or entire suspension of dividends, and in the cases of non-dividend-paying mines, high and frequent assessments instead. Wild and reckless speculation, and not unfrequently most criminal proceedings, have resulted from this mistaken policy in the past management of many of the Washoe mines. The new mode of management will restrain this reckless spirit of speculation, and introduce a more safe, practical and business-like manner of working, under which there is good reason for believing the capitalist will be more safe, and a new and wholesome impetus will be given to business generally throughout the Eastern slope. The reduction in the cost of crushing, and the general spirit of economy which will hereafter be introduced into mining as well as mill operations, will also have the effect to give value to many mines, and much ore that has hitherto been left in the mines as too poor to pay the expenses of mining and milling will hereafter be brought to the surface.

Throughout the entire State of Nevada there are now fully 1,600 stamps at work. During the present season there will be fully 500 added to this number, mostly in the Reese River and Humboldt districts. This shows a decided increase in the mining business of the State, and affords the most indubitable evidence that mining, as a pursuit, is generally found profitable to those engaged in it throughout the State of Nevada.

During the past week we have heard of two important mining strikes near Gold Hill, one by the Jewel company, which is noticed at length by our Virginia City correspondent, and another by the Caledonia Tunnel company, which is fully detailed, editorially, in another column. As an evidence that the Gold Hill mines are yielding liberal returns to their owners, we have only to notice the following dividends which have been paid, the past month, by the incorporated companies in that district. The list here given is in addition to the numerous private, unincorporated companies, many of which are returning large amounts weekly to their fortunate proprietors, and does not include the companies located in Virginia City. The Gold Hill companies dividends for the past month are as follows:

The Belcher, Baldwin and Abernethy, consolidated as the Belcher, $17 per share in each, or $51 per share in the consolidated stock; the Petaluma Mill and Mining company of $5 per share; the Empire Mill and Mining company, $20 per share, and the Imperial, $10. There may be others also in that locality which we have overlooked.

REESE RIVER.

The total amount of bullion shipped from Austin, by Wells, Fargo & Co., during the month of June, was $73,328. It is said, on good authority, that before fall there will be at least three new mills erected in Mammoth district, chiefly by Eastern capital, which is now flowing into Reese River in large quantities—chiefly the result of the liberal policy adopted there of recognizing in their business transactions the legal currency of the country. A. Blatchley, a mining engineer of Austin, has just published a pamphlet of thirty-five pages, on the mineral resources of Reese River, which is said to be very comprehensive and truthful. He sets down the bullion yield for March last, about which time the report was made out, at $105,000, and says that not over 170 miners were engaged in taking it out, showing that the average yield per man for that month was over $600. The Deputy Recorder of Reese River district says that 5,342 claims have been recorded in the district since 1862—only ten per cent. of which are re-locations. We condense from the *Reveille* as follows:

Two lots, of about five tons each, of ore from the Liberty ledge, Antonio district, has been recently worked with a net profit over mining, crushing and hauling of $200 per ton. Such a mine ought to be valuable property.

In Yankee Blade district work has been resumed on the Maggie; excellent rock is being taken from the Whitlach, Maid of Atheus, St. Jo, and Revenue ledges, the latter claim belonging to the Confidence company. The Confidence mill is progressing rapidly. Active work is going on in the development of several other claims in this district.

Mr. Justis Francis, Superintendent of the Rough Diamond S. M. Company, has arrived from New York, and will proceed at once to developing the mine. The Rough Diamond lies in the vicinity of the Diana and Morgan & Muncey, and has been opened by an incline sufficiently to prove it to be a promising mine. The machinery for a large mill is already on the ground.

The Austin Pioneer company have a series of very valuable ledges, seven in number, sample lots from each of which have been worked at the Midas mill, with very satisfactory results. One of them yielded at the rate of $350 per ton.

Messrs. Paterson & Hutchinson are erecting a small two-stamp mill, near by the Eagle mill. The object of this miniature mill is to prospect several mines belonging to its enterprising proprietors.

The Hubbard claim has produced at the Midas mill a bar worth $1,206, from two and three-quarter tons of what is claimed to be average ore. Another lot yielded $250 per ton. The name of the Oregon mill has been changed to that of Manhattan, the controlling interest having been purchased by New York parties. The company is now having the machinery for a 30-stamp mill manufactured in San Francisco.

An engine and machinery for the Vineyard Company has arrived at the mine. This claim is located about half a mile from the Yankee Blade.

The principal claim-holders of the Diamond district have engaged Mr. Clayton, M. E., to visit that region and make a detailed report of it. J. Ross Browne will also accompany the party, for the purpose of making sketches of the most attractive points, etc. These descriptions and sketches will be sent to England, with the view of interesting English capital therein.

IONE DISTRICT.—The mines about Ione City are attracting considerable attention. Dr. Blatchley, the mining engineer above spoken of, has visited this district and pronounces it equal to any in Nevada. It is located about seventy miles southeast of Austin, and wood, water and grazing abound. We learn from the Nye County *News* that the Pioneer mill, erected by W. B. Ready & Co., is the only one now in operation. Several others are under way and in early contemplation. This mill has three Coleman pans and two roasting furnaces. They have quite recently made their first shipment. The New York and Ione company are taking out rock from the Swansey and DeGroot ledges, which they think will pay $500 per ton. The machinery for their mill is now on its way over the mountains. The Idaho claim is turning out some very rich rock. The Atlantic and Pacific company, at Union, ten miles east, owns twenty-two ledges and have a mill now on the road to the mine. Geo. W. Veatch is superintendent. The Turkish company have a fine ledge. Their mill has just been built at the Miners' Foundry in this city. The Knickerbocker company have made a rich strike in the Olive ledge, and have taken out a quantity of rock said to be fabulously rich—estimated at from $6,000 to $9,000 per ton. They are putting up a 20-stamp mill. Knickerhocker stock must be going up about this time.

The Pleades, one of the principal mines of this district, recently sent 3,761 pounds of rock to Austin, which yielded a nice little brick worth $517.79. They have an abundance of the same kind of ore left.

HUMBOLDT.

According to the *Register*, considerable activity is being manifested in the various mining districts of Humboldt.

In the Sierra district work on the Ne Plus Ultra goes on with excellent prospects. Sinking on the ledge fifteen feet, one ton of fine black sulphurets of silver was taken out. The ledge widens, and the mineral seems to increase as depth is gained.

The Monroe Series has been worked principally during the winter in a hand mortar. Two men made from $5 to $10 per day each, all winter. The company is now engaged taking out a quantity of rock for crushing at Fall's mill; and intends vigorously prosecuting the work. The Monroe pays mostly in gold.

J. T. Maclean has twelve men employed on the Yosemite mine, running a tunnel, which will strike the ledge 250 feet, and sinking an incline on the ledge to meet it, from which he is taking out very rich mineral. The company intends erecting a good mill at once.

Ten men are employed on the Chrysopolis mine, and are sinking on two ledges in the series—both well-defined; and sufficient ore is taken from the shaft of each to pay for sinking. It is the design of the company to have a mill running within ninety days.

The Dubuque, an extension of the Tallulah, under the superintendence of W. K. Parkinson, is vigorously prosecuting work. Fifty-eight pounds of rock from this mine worked by Torrey, at Fall's mill, paid at the rate of $120 per ton.

Mr. Torrey of Fall's mill is at work on the Gen. Grant claim. He is to have fifty tons of quartz for taking it out. The claim is on the Montana ledge, and Mr. Torrey thinks it is equal to the original.

ESMERALDA.

According to the Esmeralda *Union*, one of the richest pieces of ore ever seen in the State was recently taken from the Gibraltar mine, Columbus district. It was a square block, weighing about fifty pounds. The streaks of sulphurets, which almost entirely cover the freshly broken surface of the block, are completely checkered over with little globules and wires of pure native silver. It would be a most magnificent specimen to be placed in the mineral department of the forthcoming Exhibition in this city.

The Kearsarge mines still continue to attract much attention. Big stories are told by all returning prospectors, and as evidence of the truth of these reports they generally have with them no abundance of rich ore. Ore from these mines has been worked, by the ton, which has yielded as high as $930 per ton.

CALIFORNIA.

Mining in California never looked more encouraging than at the present time. The new diggings near the Summit, on the Henness Pass, are still attracting much attention. The copper mines of Calaveras continue to ship ore and copper matte in large quantities, and the evidence is unmistakable that we are soon to receive large and regular shipments of ore from the mines along the Colorado. We condense from the *Messenger* as follows:

SIERRA.—The Meadow Lake mines are creating considerable interest in this section at the present time. A large number of persons—miners, traders and others have gone thither to try their fortunes. These are the newly discovered mines, eight miles from Jackson's ranch, in the northern portion of Nevada county.

The Union company has struck their ledge again, three feet wide. The Twenty one company have received the machinery for their new mill. The Masonic company are in rich dirt, and quite a number of Sacramento capitalists are prospecting about the neighborhood with the view of investment.

It is reported that the Lawler ledge has been sold to Capt. Kidd, of Nevada, and other parties, who are expected soon to commence extensive operations. The prospects of mining property on the south side of the county look especially promising at the present time.

Saw Mill camp has become quite a town, in consequence of the improved appearance of the mines. The Monitor claim employs about forty men. The first washing, after two weeks run, realized $4,000. The claims at Howland Flat are paying better than at any previous time.

The Comet claims at Gardner's Point are paying well—a dividend was lately declared.

NEVADA.—According to the *Transcript*, J. J. Ott, Esq., has sold the Oriental and Lecompton ledge for the sum of $25,000 to an Eastern company. Mr. Fred. Miller, who has recently returned from the Atlantic States, is business agent. The company is composed of some wealthy men in New York, and they design investing $200,000 in Nevada county. The Lecompton ledge is one of a number belonging to Mr. Ott, and has always maintained the reputation of being very rich.

The Sneath & Clay mill and mine, recently purchased by an Eastern company, has been put in full operation.

The *Gazette* states that Messrs. Kidd & Tisdale are taking out of the Mohawk ledge, on Gold Flat, fifteen tons daily of splendid looking rock. An order has been sent to this city for machinery, and the proprietors will erect a mill as soon as it can be done. Work on the Star Spangled Banner ledge, also owned by Messrs. Kidd & Tisdale, is being vigorously prosecuted. This has been considered difficult rock to work; but Mr. Palmer engages to save $40 per ton from it.

The editor of the Grass Valley *Union* has seen another brick from the Lucky company's mine, weighing 241 ounces, the result of one week's run. "Lucky," indeed.

The Grass Valley *National* reports a rich strike in the Black ledge, on New York Hill. The rock shows an abundance of free gold, and from its nature gives the appearance of being a large ledge. The owners of the claim are William Watt, David Watt, Thomas Findley, A. E. Davis, Henry Scadden and Robert Jones.

The Coe company is reported to be doing exceedingly well, and the prediction is made that it will eventually prove one of the best paying mines in Nevada county. The machinery connected with the hoisting works is said to answer its purpose admirably. There is apparently no better management connected with any mine in the county.

The Ophir, one of the oldest of the Grass Valley mines, is looking exceedingly well at the present time. It is now under the superintendency of Mr. Joseph Powning, an experienced mine manager, who will doubtless accomplish all in the way of its development which can possibly be reached.

The placer and hydraulic diggings in the upper portion of this county are turning out remarkably well. The claims at the head waters of Fall creek are said to be paying at the rate of $18 a day to the hand. Neice & Mott's mill, at their cement claims at Brown's Hill, is now running with most gratifying success. Thirty-six stamps, in all, are now employed in crushing the cement deposits at this locality. The number, it is said, will be doubled during the present summer. This new plan of working this class of hydraulic diggings is found to work admirably, and will doubtless, ere long, be generally adopted in all hard cement, gravel diggings.

YUBA.—A renewed interest appears to be springing up at the Brown's Valley mines. According to the Marysville *Appeal*, a well defined ledge has been struck on the Sweet Vengeance Co.'s claims, at a depth of 250 feet. Their twenty-stamp mill is again in motion, with rock richer than ever, and from a five foot ledge.

The Yuba company have decided to procure the necessary machinery and go to work immediately. The Dannebroge is opening new drifts, and we will soon hear again from them. They also have, like the Jefferson, pay streaks crossing their claim at an oblique angle.

The Pennsylvania, it is thought, will soon get over their money difficulties, save their machinery and get to work again. It is supposed they are not over fifty feet from the big Jefferson pay streak, which when reached will probably put a new face upon this company's affairs.

The Jefferson's twelve stamps are daily crushing about twenty-five tons of quartz, and as the ledge is now from fifteen to eighteen feet in thickness, but eight men per day are required to supply the mill. As to the richness of the quartz, the dividends will speak for themselves.

AMADOR.—The new mill on the Cone ledge is working with most satisfactory results; ninety-six ounces of amalgam was taken from the plates after running five days. The battery was not disturbed.

Work on the Newton copper mine is being pushed vigorously. It will be but a short time till they will have the steam hoisting works in operation, when they expect to be able to ship a large amount of copper ore daily.

CALAVERAS.—The productive copper mines of Calaveras county are turning out more ore at the present time than at any former period. The last report from the Napoleon mine states that 1,550 sacks of ore were shipped the week previous. The monthly average of the mine is said to be about 250 tons of fifteen per cent. ore; while the Union mine is yielding 2,000 tons of seventeen and eighteen per cent. ore each month.

According to the *Chronicle*, extensive smelting works are now in progress of construction, under the superintendency of Mr. William B. West, at Campo Seco.

The Keystone mine is rapidly improving. The company will soon ship from four to five hundred tons of ore per month.

A very large and rich vein of copper was struck in a claim near Shafer's store, on the Stockton road, two weeks since.

The Scorpion claim is looking very well at present. The company have got a promising lead about ten feet in width, and will, it is believed, soon begin to ship ore.

Mining and Scientific Press.

W. D. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. D. EWER. A. T. DEWEY.

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San Francisco:
Saturday Morning, July 29, 1865.

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Atlantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive Job PRINTING OFFICE.

San Francisco, April 10th, 1865.

Canvassing Agents.

We would call attention to the following named agents of the MINING AND SCIENTIFIC PRESS as gentleman worthy of the countenance of any community which they may visit, and assistance rendered them in their efforts, by friends and old patrons, or our brethren of the PRESS, will be acknowledged as a personal favor to us:—

Mr. Robert Lattimore—Amador and Alpine counties and the State of Nevada.

Thos. Poyzer, of Grass Valley, for Nevada, Yuba and Sierra counties.

ACCIDENTS AT OIL WELLS.

We almost daily hear of accidents, quite unimportant in themselves, but causing the most serious inconvenience, and often great expense and delay, in the process of boring. Several of our California wells are now suffering delays and cost from such accidents. We have just read in an Eastern paper that a little thing of this kind has recently put a summary end to boring at one of the deepest wells in Titusville, Pennsylvania. A small chip of wood was dropped into this well and became jammed between the tools and the side of the well at a depth of some five hundred feet. All efforts at getting out the tools had been unsuccessful at the latest accounts, although several weeks had been employed in such endeavors.

Another accident of a similar character came near doing much damage at the Bartlet well, now being sunk in Humboldt county, in this State. It appears that a lighted match was accidentally or intentionally dropped into the well hole, and instantly the gas escaping therefrom ignited, causing an explosion equal to that occasioned by the explosion of a fire-arm, throwing the mud and dirt with great force full twenty feet in the air. The explosion caused considerable dirt to fall into the well sufficient to occupy the operators several hours to remove it. Fortunately no damage was done to the machinery.

Most of our readers will recollect the terrible scene which recently occurred at a well in Pennsylvania, where the escaping gas from a well accidentally took fire, destroying several lives and an immense amount of property in buildings, machinery and oil. Such repeated occurrences should serve as warnings for inducing greater caution in the employment of fire, especially a naked flame, about oil wells, and indeed in all the mechanical operations connected with such work.

Work on the Caledonia is being prosecuted with vigor. The Caledonia is about eight miles from Copperopolis.

ANCIENT SHIP-BUILDING.

Capt. G. F. Goble, of the British Navy, has recently brought to the notice of English engineers an elaborate series of working drawings for both *wood* and *iron* ship-building, copied from drawings found in the summer palace of the Emperor of China—a structure which was ransacked and destroyed during the late English war with China. These drawings have every appearance of being old—perhaps thousands of years of age. The London *Mining Journal* says that the construction of the vessel is in every way remarkable, especially considering the great antiquity claimed for it; the hull, masts, sails, screws, etc., being of a character equal to the most approved arrangement of the present time, or considerably in advance of them. Capt. Goble is seeking the co-operation of a few antiquarians and others interested in the subject, in order that a working model of the vessel may be built, and there appears to be no doubt that many very material advantages will be gained as compared with any ship at present afloat. Not only are the several portions of the ship itself, of a highly efficient character, described, but even the chain cables are apparently superior to those now in use, though totally different in construction. They are said to be capable of bearing a strain of 10,000 tons.

It may be mentioned, as a curious circumstance, in connection with the above, that the largest ocean steamships now afloat bear almost the proportions in length, breadth and depth, as those of Noah's Ark. The dimensions given for our largest steamers are: length, 322 feet; breadth of beam, 50 feet; depth, 28½ feet. The dimensions of the Ark were: length, 555 feet; breadth, 92 feet; depth, 55 feet. The Ark, therefore, was nearly twice the size in length and breadth of these vessels. Both had upper, middle and lower stories, or decks. Thus it appears that after all the experience in ship-building and ocean navigation of the forty-two centuries which have elapsed since the deluge, the engineers of the present day are not able to materially amend the form of build employed by our antediluvian predecessors, as exemplified in the recorded description of Noah's Ark.

WITHOUT A BLUSH OF SHAME, or any attempt to relieve the terrible disaster visited upon the passengers of the Golden Rule, the managers in this city of the "Opposition" line of steamers to the Atlantic again advertise to take passengers to New York, *via* Nicaragua, calling their's the quickest route, when it is well known that their average trips are not less than *thirty* days. One would suppose that the seemingly inevitable and vexatious delays of the transit across Nicaragua, and the numerous failures to connect at that point, would prompt the proprietors of this line to make some definite and reliable arrangements by which such objections might be obviated; but we hear of none, and are therefore led to the inevitable conclusion that the company have resolved to rely upon the credulity of the community, and that the future of the Nicaragua line is to be but a repetition of the past. Miners and others from the interior, as well as from this city, who contemplate a visit to the East, will do well to bear these facts in mind, and govern themselves accordingly.

QUICKSILVER.—The Solano *Press* states that the Knoxville Quicksilver Company are constantly shipping from Suisun a large quantity of quicksilver. The mines are said to be excellent property, although they do not make much noise in the papers.

LUMBER AND LEATHER.—Chicago is said to be the largest lumber market in the world. New York is the largest market for sole leather in the world—more being bought and sold there annually than is bought and sold in London, Liverpool and Paris combined.

SILVER IN COLORADO.—Silver mines have recently been discovered in Colorado, and are creating quite an excitement. They have quite appropriately and prettily named their new district and embryo city Argentine.

CALEDONIA TUNNEL AND MINING COMPANY.

The above company have recently struck a fine ledge, the ore of which looks very rich, being of excellent texture and filled with splendid sulphurets. The prospects of the company were never better, or in a more flourishing condition, and appearances indicate that after years of uninterrupted work, the owners will be rewarded for their perseverance, and receive back all assessments paid in tenfold. "Patient waiters are no losers."

We clip the above from the Virginia *Union* of Tuesday last. We have seen a lot of rock taken from the ledge at the point where this strike was made, and, judging from the sample shown, can fully endorse the opinion of its richness expressed by our cotemporary. The Caledonia Tunnel has been run a distance of 2,000 feet, passing entirely through, what is considered there, the Comstock ledge. The ledge was barren at the point where it was intersected by the tunnel, and the company pushed ahead quite a distance, hoping to find something beyond. They afterwards came back and ran a drift southward about 500 feet on the ledge and northward 200 feet, without finding anything of much value. The expenses at this point had footed up about $150,000. A short time since the Uncle Sam and Overman consolidated struck very rich rock in their south drift, and not far from the north line of the Caledonia company, which the claim adjoins. Encouraged by this prospect, the Caledonia company went back into their north drift, and after running a short distance toward the Uncle Sam, came upon this new strike, above alluded to by our cotemporary of the *Union*. We heartily congratulate the persevering proprietors of the Caledonia, and trust that their most sanguine anticipations may be more than realized.

We believe the fact has not yet been made public that the number of shares of this company have recently been reduced from 5,000 to 2,500 in number. The old stock has nearly all come in and new been issued instead. Parties interested should notice this change.

SILVER IN OREGON.—Silver has recently been discovered on Coleman's creek, a few miles above Camp Baker, Oregon. The manner of its discovery, as described by the *Sentinel*, was very singular, and confirms the old adage that most great discoveries are the fruit of accident. It seems that a lime kiln had lately been burned there, and on examination a nugget of pure silver, or something resembling it, weighing six ounces, was found in the bottom of the kiln. No clue has yet been obtained as to what particular kind of rock it was melted from.

ON THE LEAD AGAIN.—After running a long hard rock tunnel, the Union Company, at Wet Ravine, Sierra county, have come upon the main lode, which they find wider and richer than at any other point developed. On the 18th inst., after a single blast, $3,000 worth of specimens were gathered up. Mr. B. W. Barns, a member of the company, informs us that the work will now go on in earnest. The mill was expected to commence running on the 24th. Outsiders but faintly realize the immense importance of the undeveloped quartz resources of Sierra county.

COPPER PLATES IN MINING.—The use of copper in silver mining, in various forms, says the Virginia *Union*, appears to be coming in vogue in the State of Nevada. Several tons of copper plates were shipped to the Reese River sections a few days since. They were probably designed for use on the bottoms of amalgamating pans.

THE HIGHEST PLACER MINES.—Probably the most elevated placer mining locality on the globe is to be found at the head waters of Fall creek, in Nevada county. In May last, eight feet of snow had to be taken off the ground before sluicing operations could be commenced. Here diggings are said to be paying $18 per day to the hand.

THE Welsh miners are coming to America in great numbers, and the English papers think it augurs little good to the country.

Coal Mine Explosion in Pennsylvania—Five Men Killed.

A correspondent of the Pittsburg *Commercial*, writing from Steubenville, Penn., under date of June 6th, says:

A terrible accident occurred in one of the coal pits here yesterday morning. It appears that the miners had not been working since Wednesday of last week, and the fire in the furnace below, which is always kept there in order to create a circulation of air through the different parts of the mine, had not been attended to for two days, so that the gas had been accumulating during Saturday and Sunday.

Monday morning a man went down and is supposed to have just kindled the fire and started off into one of the entries with a common lamp in his hand, which no sooner came in contact with the gas than the fearful result was known above. The noise is described as resembling that made by a train of cars moving at a rapid rate. A shock was felt, which shook the building to its very foundation, and the gas from below came up with tremendous force, bringing along with it a shower of dust, slate, pieces of coal, and piling the underground cars on top of each other, then forcing the whole mass out of the mouth of the shaft, knocking and tearing everything in their way. Nine men, who had already gone down to resume their work on that morning, were buried.

The news was rapidly spread, and soon a crowd of citizens and brother-workmen were collected at the place of the disaster, eager to do something for the relief of those who might be living, and also to rescue the bodies of those in whom life was extinct. After many attempts and repeated failures, on account of the suffocating odors which affected those who went down, sometimes rendering them insensible, they succeeded yesterday in getting up six of the unfortunate ones. Two of them were already dead, two seriously injured, but the other two, strange to say, unhurt. The remaining three were exhumed to-day, all dead, of course. About three o'clock this afternoon the body of Mr. Cowan, who carried the lamp, was brought up, badly bruised and mutilated. Some two or three tons of slate had fallen upon him, and a part of the case belonging to his watch was found, bearing evidence that the rest of it had probably been melted.

It is seldom that accidents like the above occur where ordinary precaution is used. The presence of inflamable gases is always perceptible to the senses, and miners should be extremely cautious about going into mines with a naked flame when there is any reason to expect an excess of such gas. When it is found necessary to take a light into such places, a Davy lamp should always be employed. The same remarks are applicable to oil wells when there is a large discharge of gas. Accidents will continue to arise from such causes until miners learn to be more cautious.

LACE MADE BY CATERPILLARS.—A most extraordinary species of manufacture has been contrived by an officer of engineers, residing at Munich. It consists of lace and veils, with open patterns in them, made entirely by caterpillars. The following is the mode of proceeding adopted:

Having made paste of the leaves of the plant on which the species of caterpillar he employs feeds, he spreads it thinly over a stone or other flat substance of the required size. He then, with a camel's hair pencil dipped in olive oil, draws the pattern he wishes the insect to leave open. The stone is then placed in an inclined position, and a considerable number of caterpillars are placed at the bottom. A peculiar species is chosen, which spins a strong web; and the animals commence at the bottom, eating and spinning their way up to the top, carefully avoiding every part touched by the oil, but devouring every other part of the paste. The extreme light-ness of these veils, combined with their strength, is truly surpassing. One of them, measuring 27½ by 17 inches, weighed only a grain and a half, a degree of lightness which will appear more strongly by contrast with other fabrics. One square yard of the substance of which these veils are made weighed 4½ grains; whilst one square yard of silk gauze weighs 137 grains: and one square yard of the finest net weighs 262½ grains.

MRS. GEN. GAINES has gone down the Mississippi river with a retinue of lawyers to make another effort at New Orleans to gain possession of the immense estate left by her father. She has perseverance on her side at least.

RICH specimens of cinnabar are reported to have been recently found in the Volcano District, Nye county, Nevada.

THE MARIPOSA ESTATE.—It will he recollected that wc stated some time since, that the mauagement of the Mariposa estate had been placed in the hands of the Messrs. Dodge & Bros., a well known business firm of this city, expressing the utmost confidence that such an arrangement would result most satisfactorily to all parties concerued. The result appears to have realized our anticipatious. By the latest dates from New York, we notice that this stock has now an upward tendency in the market, and the affairs of the company are assuming a state most satisfactory to the stockholders. The note for $50,000, with interest in gold, due under the " Garrison Settlement," on the 20th of Juns, was promptly paid. It will he recollected that the arrangement with the Messrs. Dodge was upon a lease made to them under terms of which they were to pay off the California indebtedness, which, on the 27th of April last, amounted to $37,000, in addition to $66,000 due the workmen on the estate, making a total indebtedness of $113,000 in gold. This amount, it is confidently expected, will soon he materially reduced under the business-like and economical management of Messrs. Dodge & Bros. The placing of this large nud valuable property under ths management of political lawyers and speculators, who had oo acquaintance with mine management, has heen disastrous in the extreme; a result which must ever be entailed upon such policy wherever initiated. We trust its future will hs as prosperous as its past has heen disastrous.

B. F. BARKER'S CONCEALED DOOR SPRING.—This door spring was invented hy B. F. Barker, No. 36 Wehh street, San Francisco; patent applied for in April, 1865. It will he shown at the coming Fair of the Mechanics' Institute, in model and in full working size, as applied to doors. It is quite unlike auy other door spring in its application, and also in its working. The manner in which it is applied does not tend to weaken the door or tear it from its hinges, hut rather to keep it firm in its place, and prevent it from sagging. When the door is opeued to an angle of 45 degrees, ths spri g is nearly at its greatest expansion, so that on the last quarter of opening, the spring gradually loses its power upon the door, and the slightest obstruction will keep it open if desired. The door closes without any dependence on the momentum. The cam, or lever, attached to the hracket, causes the spring to work in a parallel line, aud its great length warrants it to work for years without relaxing in the least. This spriog may be applied to parlor or insidc doors, for its working is so easy and silent that a mere child can open the door. And last, hut not least, the door remains undefaced and without blemish, and the spring will work for years as perfectly as when put on. Most springs in use require great effort on account of increased strain on the last quarter of the opening of the doors; hut this spring has its greatest tension at ahout half way open, and gradually relaxed in shutting. The spring, after closing, still holds its grip and keeps the door snugly closed.

THE NORTH ALMADEN QUICKSILVER MINE.—Wc recently paid a visit to this company's mius, in company with Capt. Faul, the superintendent nnd one of the owners. The outcrop of the mins presents every evidence of the company being ahle to find a large deposit of mineral at an inconsiderable depth. They are now engaged in running a tunnel to strike it in depth, and nre also sinking a shaft for the same purpose. Quite a quantity of pay rock has already heen taken out. The mine is located on the Farnsworth Ranch, in a north-easterly direction from the New Almaden, and distant therefrom ahout ten milcs. There is plenty of fine water and timher upon the claim, and a plateau has been selected upou which to erect reduction works, furnaces, etc. A location has also heen selected for a town site, upon which hosiness lots will he presented to actual settlers. The mine has heen worked only a few weeks, but with Capt. Faul's large experience in quicksilver mining, he can hardly fail of producing a rich return to the proprietors associated with him, who are O. L. Craodell, C. D. Putuam, and George Winchell, of San Jose.

THE SANTA BARBARA METEOR AGAIN.

We have received the following letter from a well known citizen of Nevada, in relation to the Santa Barhara meteor. The letter was accompanied by a private note, in which the writer fixes the momeut of observation at thirty-five minutes past seven o'clock P. M., Austin time, by his watch, which might possibly have. been five or ten minutes out of the way. Mr. Rolfe thiuks that if the meteor had been noticed after dark it would havs afforded as much light as the full moon. He was sitting at the time on the outside seat witb the driver, and had a fine opportunity for noticing it. The observations of Mr. Rolfe nre very valuahle. We should like to hear from other observers, if there are any, who may have seen the meteor from any other point with sufficient distinctness to give us their point of observation, the direction in which it was seen, its angle of elevation, and thc apparent direction of its motiou. We subjoin Mr. Rolfe's letter:

NEVADA, July 25, 1864.

EDITORS MINING PRESS:—My attention was called, yesterday, to an article in your last issue, giving an account of the meteor seeu at Santa Barhara on the evening of the 12th instant, and the request for further informatiou as to the meteor seen at the samc timc by the stage passengers on the overland road. As I was the person who gave the information to the *Gazette* and *National*, of this county, I will endeavor to give the particulars you ask for. The point of observation was some twenty-eight or thirty miles east of Virginia City, on the overland road—perhaps twenty-five miles by an air line. The meteor was seen almost due south from that point. Its angle of elevation, as near as I can judge, was from twelve to fifteen degrees, and its motion was easterly, inclining a little towards the horizon. Its apparent magnitude was about the same as described by Dr. Jacksou; thnt is, of a six-pound cannon ball, and was as brilliant as the suu. It was visible from twenty to thirty seconds, moved very slowly, when it hroke into three or four pieces, the largest fragment apparently dropping on top of a mountaiu, and the smaller lagging hehind a few moments, and then disappearing. No stars were visible at the time, except the planet Jupiter. It left no train or illumination in its path, as noted hy the observers nt Santa Barhara; hut as it was seen at almost the same moment nt hoth places, I judge it to be the same meteor.

T. H. ROLFE.

SUDDEN DEATH.—We are pained to annouue that Mr. Wm. Fell died in this city on Thursday. He had heen sufferiug for a long time from chronic rheumatism, which, however, did not prevent his attending to business, and scarcely a week ago we met him ou the street. He was a native of Denmark and some fifty years of age, nnd as a faithful and efficient mining secretary, was well and favorahly known. From long hussiness connection with him, we can say truly, that a more prompt nnd honorahle business man it has never heeu our lot to meet.

GOOD PROSPECTS FOR OUR IRON MANUFACTURERS.—In Jauuary, 1864, the numher of miles of completed railroad in the Northern States was nearly 25,000, and in the Southern States about 9,000 miles. So much of the latter, however, has heen destroyed aud worn out, that it may be said nearly the whole must be renewed. This will for the next few years make a tremendous demand on the various manufactories of railway material, aud the capacities of Pennsylvania in this respect will he taxed to their utmost.

CAVE IN THE GOULD & CURRY.—A small cave of some fifteen or twenty tons of rock, occurred in the Gould & Curry mine on Monday last, at 2 P. M. Fortunately no one was at work except Mr. Cullen, one of the miners, who got his hand cut a little hy one of the falling timhers. He was not seriously hurt. Small caves are quite frequent in our mines, and it is a wonder that more people are not hurt than there is.—*Virginia Union.*

MONTANA.—A new offspring of the Republic, horn in the war, it is a sturdy man child, hearty and thriving. In an existence of only three years, it has gathered into its horders an earnest, working population of fifty thousand whites, who may be fairly presumed to he that indelatigable and energetic race who people our new Territories.

RICH MINES IN SIERRA COUNTY.—One of the claims in Alturas District, has yielded $150,000 this season, and various others from $20,000 to $10,000.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and all other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Alpha, Gold Hill $90		Aug 26	Sept 27
Adriatic, Storey co., $1.50		Aug 3	Aug 16
Adams' Petroleum			Sale July 31
Bolinas, Petroleum, Marin co., 25c		Aug 5	Aug 19
Bella Vista, Lower Cal, 25c		July 29	Aug 12*
Bacon M. & M. Co., $10			Payable May 10
Burning Moscow, Storey co., $10		Aug 16	Aug 29
Belcher, Baldwin & Abernothy		Dividend of $17, June 3	
Bullion $40			Sale Aug 7
Barreteros, Sinaloa, Mex., $5		July 27	Aug 7
Barreteros, Sinaloa		Annual Meeting Aug 7	
Benicia Cement Co., $5		Aug 8	Aug 23
Blue Ledge, El Dorado co., $1.50		Aug 16	Aug 30
Camargo (Eclipse), Lander co. $5		Aug 19	Sept 6*
Chloride Ledge, Calaveras co., $1		Aug 12	Aug 26*
Cherokee, Echo District, 75c		July 29	Aug 12*
Caledonia Tunnel, Gold Hill, Nev., $3		July 15	July 29*
Confidence,		Dividend, $100 per foot May 1	
Choilar, Storey co., Nev., $12½		July 31	Aug 14
Cosala		June 7	Caution
Cortez, Lander co		Annual Meeting Aug 3	
Chipichapa, Sonora, Mex., $5		Aug 26	Sept 8
Cosala, Sinaloa, Mex., $1.50		Aug 23	Sept 9
Diana, Lander co		June 7	Caution
Dardanelles, Del Norte co., 20c		Aug 5	Aug 19
Dancy, Lyon co., Nev., $1.25		Aug 11	Aug 23
Emilia, Mex., 50c		July 29	Aug 12*
El Dorado, Alpine co., $1		July 22	Aug 14*
El Tesora, La Paz, $1		Aug 14	Aug 25
Franco-Americana, San Antonio, 50c		July 29	Aug 11
Great Western, Aurora, 10c		Aug 25	Sept 9*
Globe, Alpine co		Annual Meeting Aug 21*	
Golden Rule, Dividend		Payable July 20*	
Good Hope, Alpine co., 60c		Aug 12	Aug 26*
Geo. Washington, Alpine co., $1		Aug 12	Aug 26*
Gould & Curry,		Dividend, $50 July 6	
Gem of Sierra, Humboldt co., Nev., $5		July 12	July 31
Green, Storey co., $1		July 22	Aug 5
Green Lode, San Bernardino co., $1		July 24	Aug 4
Great Republic, Contra Costa co., 12½c		July 29	Aug 16
Guadaloupe, Chihuahua, Mex., $10		Levied June 26	
Great Consolidated, Boise River, Idaho, 50c		Aug 11	Aug 22
Hanscom Copper, Del Norte co., 15c		Aug 26	Sept 12*
Honest Miner, Lander co., 50c		Aug 26	Sept 12*
Halleck, Alpine co., 50c		Aug 12	Aug 26*
Hanscom, Del Norte co., 15c		July 22	Aug 5*
Hale & Noreross, Storey co., $25		Aug 7	Aug 21
Harmon, El Dorado co		Special Meeting Aug 2	
Imperial, Dividend, $10			Payable July 5
Imperatrice Eugenie, Calaveras co., 30c		July 1	July 29
Jewett, Gold Hill, Nev. $1		Aug 19	Sept 2*
Jura, American Flag dist., Nevada, $1		Aug 23	Sept 9
Kentucky, Calaveras co., 50c		July 12	July 31
Kohler Bros., San Antonio, L. C.		Special Meeting July 31	
Lord Byron, Devil's Gate, 50c		Aug 26	Sept 11*
La Libertad, Lower Cal., 50c		Aug 5	Aug 14*
La Victoire, Mariposa co., $3		Aug 12	Aug 28*
Lotus, Calaveras co., 15 cts		Aug 15	Sept 2
La Victoire, Mariposa co		General Meeting Aug 19	
La Blanca, Sonora, Mex., 50c		Aug 31	Sept 13
Mosquito Quartz, Calaveras co., $5		Aug 26	Sept 15*
Marathon, Mono co., 50c		July 15	July 29*
Minerva Cons., Gold Hill, $25		July 31	Aug 15
Maggie, Lander co., Nev., $2		Aug 8	Aug 19
Nuestra Sen. de Guadaloupe, Durango, 50c		July 29	Aug 16
Noble, Calaveras co., $6		July 1	July 29
Nevada, Nevada co., 50c		July 20	Aug 1
Napoleon, Calaveras co., $5		Aug 5	Aug 18
Napa, Alpine co., 60c		Aug 5	Aug 14*
New Hope, Lander co., Nev. $1		Aug 14	Sept 2
North Star, Lander co., Nev. $11		Aug 10	Aug 25
Nonpareil, Tuolumne co., $2		Aug 14	Aug 31
Old Colony, Reese River, $5		Aug 26	Sept 11*
Ontario, Lander co., $1		July 18	Aug 4
Overman, Storey co., $50		Aug 2	Aug 18
Ontario, Lander co		Annual Meeting Aug 7	
Overman, Storey co		Special Meeting Aug 9	
Porter, Virginia, Nev. $5		Aug 19	Sept 2*
Potosi, Storey co., Nev., $25		July 31	Aug 14
Patricina & Dolores, Chihuahua, Mex., 50c		July 27	Aug 7
Petaluma M. & M. Co., Dividend of 5 per cent			July 5
Paragon, Petroleum, Humboldt co., 30c		Aug 5	Aug 19*
Point Arena, Petroleum		Annual Meeting Aug 9	
Peninsula, San Antonio, L. Cal., $10		Aug 18	Aug 31
Patrocina & Dolores		Annual Meeting Aug 28	
Puritan, Devil's Gate, Nev		Special Meeting Aug 2	
Rose, Mariposa co., 50c		July 22	Aug 5*
Refugio, Chihuahua, Mex., $2 50		July 20	Aug 3
Rose Linda, Alpine co., $3		Aug 5	Aug 16
Rochester Cons., San Bernardino co., $1.25		Aug 16	Aug 28
Revenue, Lander co., Nev., $1		Aug 26	Sept 13
Sheha, Humboldt co., Nev., $25		Aug 19	Sept 2*
Smoky Valley, Smoky Valley dist. $1.50		Aug 12	Aug 30*
Southern Light, R. R. 50c		Aug 19	Sept 6*
Simpson M & M Co., Alpine co., 60c		Aug 12	Aug 26*
Sierra Nevada, Alpine co., 75c		Aug 12	Aug 26*
Savage,		Dividend, of $75 May 5	
Santiago		Dividend May 17	
San Rafael, Lower Cal., 50c		July 29	Aug 15*
Sacramento & Meredith, Storey co., 50c		Aug 4	Aug 19
Sierra, Douglas co., Nev., $2		July 24	Aug 9
Shoshone, Lander co., Nev., $1		Aug 7	Aug 21
St. Paul, Lander co., 50c		Aug 5	Aug 22*
Santa Cruz, San Antonio, L. C. $2		Aug 8	Aug 21
San Francisco, Del Norte co., 30cts		July 31	Aug 12
Salambo, Tuolumne co., 75cts		July 19	Aug 5
Sweet Vengeance, Yuba co., $1		Aug 19	Sept 4
Silver Queen, Lander co., Nev			Sale July 31
Table Mountain, Calaveras co., 50c		July 29	Aug 14*
Triunfo, San Antonio, $3		Aug 7	Aug 19
Tellurium, Amador co., $1		Aug 3	Aug 16
Tesoro & James River, Lander co., Nev. 50		July 14	Aug 1
Tecoripa, Sonora, Mex., $3.50		Aug 7	Aug 19
Tecoripa, Sonora, Mex		Annual Meeting Aug 3	
United States, Lander co		Meeting Aug 10	
Uncle Sam, Storey co., $50		Aug 2	Aug 18
Union, Sierra co		Annual Meeting Aug 14	
Vulcan, Lander co		Annual Meeting Aug 5*	
Vulcan, Lander co., 50c		July 22	Aug 5*
Ventana		June 3	Caution
Wisconsin, Alpine co. 1		Aug 19	Sept 2*
Whitlach Yankee Blade, Lander co., $10		Aug 26	Sept 12*
Whitlach, Lander co., $7.50		Aug 7	Aug 22
Yosemite, Ore Fino dist., $1.25		Aug 5	Aug 19*
Yellow Jacket,		Dividend of $100 May	
Yankee Blade, Lander co., Nev. $1		Aug 12	Aug 29

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	*Date of Levy.*	*Am't per foot*
Burning Moscow	July 11	20 00
Branch Mint	July 12	1 50
Central Hawkeye	July 10	3 00
Choilar	July 1	25 00
Globe	May 16	1 00
German	July 22	50
Hamilton	July 8	45
Halo & Noreross	July 7	25 00
Imperial Consolidated	July 24	50
Jewett	July 22	1 00
Knickerbocker	July 7	1 00
Keystone	July 11	1 25
Lincoln	July 1	1 00
Minerva	July 1	100 00
Overman	June 10	50 00
Peck	June 7	1 00
Potosi	July 1	25 00
Sacramento & Meredith	July 4	60
Sides	July 18	10 00
Siegel	July 8	50
Uncle Sam	July 3	50 00
Virginia & Truckee R R Co	July 16	200 00
Yolo	July 7	1 00

Delinquent Sales.

Name of Company.	*Date of Sale.*	*Place of Sale.*
Bullion	Aug 7	Virginia
Crystal Peak W D L M & M Co	July 29	Virginia
Cole	July 23	San Francisco
Chrystal Peak Coal Co	July 29	Virginia
Caledonia Tunnel	July 29	San Francisco
Cresus	Aug 23	Gold Hill
Eastern Crown Point	July 29	Virginia
Globe	Aug 15	Virginia
Golden Swan	Aug 7	Gold Hill
Green	Aug 5	San Francisco
Imperial Consolidated	Aug 22	Gold Hill
Jewett & Shepard	Aug 3	Gold Hill
Kossuth	Aug 5	Virginia
Keystone	Aug 3	Virginia
Mount Blanc	July 31	Virginia
Mary Ann	Aug 12	Gold Hill
North America	July 27	Virginia
Napoleon Consolidated	Aug 7	Virginia
Opal	Aug 2	Virginia
Overman	Aug 18	Virginia
Peck	Aug 8	Gold Hill
St. John	July 17	Virginia
Siegel	Aug 17	Virginia
Sand Springs Salt Co	Aug 21	Virginia
Tyler	July 17	Virginia
Yolo	Aug 1	Virginia

San Francisco Metal Market.

PRICES FOR INVOICES.

(Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1¼c ₱ lb; Sheet, polished, 3c ₱ lb, common, 1¼@1¾c ₱ lb; Plate 1½c ₱ lb; Pipe, 1¼c ₱ lb; Galvanized 2¼c ₱ lb.

Scotch and English Pig ₱ ton	— @40
American Pig ₱ ton	— @39
Refined Bar, bad assortment, ₱ lb	— @—
Refined Bar, good assortment, ₱ lb	3¼@—
Boiler No. 1 to 4	4 @ 4¼
Plate No. 5 to 9	4½@—
Sheet No. 10 to 13	4 @—
Sheet No. 14 to 20	5 @—
Sheet No. 24 to 27	5½@—

COPPER.—Duty: Sheathing 3¼c ₱ lb; Pig & Bar 2½c ₱ lb.

Sheathing ₱ lb	32 @—
Sheathing, Old	25 @—
Sheathing, Yell	32 @—
Sheathing, Old Yell	12 @—
Bolts	— @—
Composition Nails	30 @32

TIN PLATES.—Duty: 2½c ₱ lb.

Plates, Charcoal, IX ₱ box	10 @11
Plates, I C Charcoal	9 @10¼
Roofing Plates	8 @ 9¼
Banca Tin Slabs, ₱ lb	41 @42½
STEEL.—English Cast Steel, ₱ lb	12½@16
QUICKSILVER.—Per lb	— @65
For export	55 @—
ZINC.—Sheets ₱ lb	9½@10
LEAD.—Pig ₱ lb	6½@—
Sheet	10 @—
Pipe	10 @—
Bar	9½@10

THE DEAD AND THE LIVING.—From a correspondent of the *Gazette*, of Augshurg, we learn that the pontifical expends, every year, in masses for souls in purgatory, 800,000 francs, while for the hudget of public iostruction it pays ouly 214,000 francs.

PITTSBURG has just fioished a perfect model of the famous rebel iron-clnd Merrimac, and also a monitor, as a contiubntion to the great sanitary fair at Chicago. The vessels, though of course hy no means equal in size to their prototypes, arc yet of good dimeusions, nnd furnished with machinery, guns, etc., complete.

San Francisco Stock and Exchange Board.

SAN FRANCISCO, July 29, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ 74½	$ 74¾
Gov. Legal Tender Notes	73¾	74
State Bonds, 7 ₱ cent	80	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	..	..
San Francisco Bonds, 1858, 6 ₱ cent	63	70
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	44	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	..
Butte County Bonds, 10 ₱ cent	..	..
California Navigation Co	75¾	76
Pacific Telegraph Stock	..	32
San Francisco Gas Co	90	93
Sacramento Gas Co	86	..
Spring Valley Water Co	50	50½
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	..	..
Central Railroad Co	..	..
North Beach and Mission	100½	..
MINING STOCKS.		
Ophir	$ 395	$ 400
Gould & Curry	1400	1575
Empire M. & M. Co	465	490
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	1175	1200
Chollar	460	465
Potosi	480	482
Hale & Norcross	560	565
White & Murphy	....	....
Sierra Nevada	23	24
Piney	....	....
Burning Moscow	33	31
Lady Bryan	5	5½
Sacramento & Meredith	....	....
Burnside	....	5
Iowa	....	....
El Dorado	....	....
North American	40	41
Baltimore American	15	20
Yellow Jacket	1150	1160
Overman	250	260
Cedar Hill Tunnel	....	....
Wide West	0½	7
Crown Point	850	875
Antelope	....	....
Emeralda	....	10
Ætna	....	....
Real del Monte	7	14
Silver Hill	....	....
Utah	....	....
Justis	15	25
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co	....	35
Mahones and Stanislaus	....	....
Shoha	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H.	165	....
Buckeye	....	....
Dick Sides	....	....
Imperial	228	230
Alpha	1500	1600
Bennett	....	....

CONVENIENT WATER GUAGE.—W. L. Bordich, engineer of the Sacramento Water Works, according to the *Bee* of that city, has arranged an apparatus by which, while in the engine room, he is notified when the tanks are full. A lend pipe extends from the top of the building to a box in the engine room. In this box there is a wheel carrying buckets made of tin. When the tanks are full the surplus water runs down the pipe and sets the wheel in motion. The revolution of the wheel causes a bell to strike, and the engineer knows it is time to stop the engine. This arrangement proves very serviceable, as it removes all excuse for permitting the tanks to overflow and drench the building.

How long Eve, the first woman, lived, we do not know. It is a curious fact that, in sacred history, the age, death and burial of only one woman, Snrah,, the wife of Abraham, is distinctly noted. Woman's age, ever since, appears not to have been a subject for history or discussion.

GOING TO BENICIA.—The Pacific Mail Company's steamer *Constitution* has gone to Benicia to lie up. The new steamer *Colorado* takes the berth at the Company's dock and will sail for Panama on the 3d proximo. This will be the first voyage of this fine vessel from San Francisco to Panama. She will be commanded by Captain Watkins.

The amount of war material now accumulated by Government, both of its own manufacture and captured from the rebels, is almost incredible. Speaking of guns in a wholesale way, an artillery officer lately intimated that the cannon, caissons, ambulances, wagons, etc., with their teams, would make a column reaching from New York to California.

QUICK RELAPSE INTO WILDERNESS.—The fact that wild game overruns Virginia proves how soon a country can fall back into its original wilderness when cultivation ceases. Deer and bear are reported to have reappeared in districts where they had not been seen for many years prior to the commencement of the war. Quails and rabbits literally swarm in the desolate settlements of Virginia.

A military novelty was seen near Fort-Lyon, recently, in a night parade of two divisions of the ninth corps, each man carrying a lighted candle in the muzzle of his musket. The sight was a curious and brilliant one.

ANTHONY sought happiness in love; Brutus in glory; Cæsar in dominion. The first found disgrace; the second, disgust; the last, ingratitude—and all, destruction.

THERE is a boy in an insane asylum at Hartford, hopelessly insane from a knowledge of the sufferings and consequent death of his father in the rebel prison at Andersonville.

THE war in Mexico continues with varying success. In a recent fight at Saltillo, Cortinas, who lately deserted and betrayed Maximilian, captured $50,000 in specie, and defeated the Imperialists.

THE old fashion of a "feast at a funeral" is not obsolete in Lebanon county, Pa. Over five hundred persons recently partook of dinner at a house in that vicinity from which that morning a corpse had been buried.

A DESERVED HONOR.—The Government gave its assent, at the termination of the grand military review held in Washington, that every regiment to be discharged should be allowed to go to the State and district in which it was raised, carrying its arms and colors with it, and be there mustered out.

A MAN named Knowlton spent six months in discovering a method for sawing ship-timber in a bended form, and another mode for boring granite, and sold a part for $10,000. During the same time a comrade taught a poodle dog to dance a jig on his hind legs. Brains have a value.

WESTFIELD, Mass., has for a long time been famous for the extent of its whip manufactories. The business was commenced there twenty years ago, and there are now forty-two factories.

PLEASANT THOUGHT FOR THE OLD.—"No bell, be it made ever so carefully and skilfully, sounds so well at first as it does after it has been hung some years. There is an atmospheric effect, a process of oxydization, very gradual, which goes on improving and mellowing the quality of tone as years advance."

THE Napa County *Reporter* has completed its ninth volume.

A German Mining Engineer,

LATELY FROM THE EAST,

Desires a Place in a Mine, Assay Office, or Chemical Laboratory.

Address O. H., office of this paper. 4v11-1m

VALUABLE

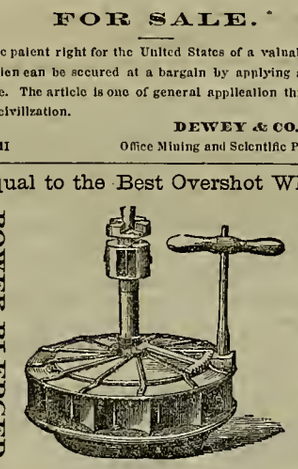
PATENT RIGHT

FOR SALE.

The patent right for the United States of a valuable invention can be secured at a bargain by applying at this office. The article is one of general application throughout civilization.

DEWEY & CO.,
4v11 Office Mining and Scientific Press.

Equal to the Best Overshot Wheel



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AMERICAN DOUBLE TURBINE,

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STING OF REPTILES.—In a paper addressed to the Academy of Sciences, Dr. Guyon lays down the principle that the action of the venom of serpents as well as scorpions is identical on man as on beasts, a proposition he confirms by several observations of his made both in the West Indies and in Algeria. Regarding its violence, he says there is a general belief abroad that it is much more powerful in summer than in winter; but this he does not consider well authenticated, and quotes against it the case of one Drake, an exhibitor of snakes, who having in the winter of 1827, at Rouen, handled a rattlesnake which he took to be dead while it was only benumbed by the cold, was bitten by it, and died in the course of nine hours. From a considerable number of observations, Dr. Guyon concludes that the intensity or power of the venom is less owing to difference of season than to the length of time it has been accumulating in the reservoir of the reptile, and the greatest accumulation necessarily occurs during winter, because the animal is in a torpid state, and does not take any food during that season.

So it was in the case of Drake, and so Dr. Guyon found in that of a horned viper, which had been given him at the caravanseral of Sidi-Makhlouf, Algeria. The reptile had been put into a bottle, which had since remained hermetically closed. It had been in there for six weeks without food, and without air, and looked quite dead, since it could not stir in the bottle, which it filled entirely. And yet, on opening the bottle, the doctor found the reptile perfectly sound, and saw it kill a large fowl instantaneously with its sting. Our author quotes another case, that of a scorpion, which had been kept in a bottle for a long time and on being released killed two large sparrows in less than a minute, and a pigeon in three hours. Dr. Guyon devotes some space to the symptoms which accompany the infliction of a bite by such reptiles; first, a violent pain at the moment of receiving the wound, then an unconquerable itching on the spot, then trembling, vomiting, difficulty of breathing, often accompanied with a cough, a dilation of the pupils, muscular contractions, tetanic symptoms, etc. —*Galignani's Messenger*

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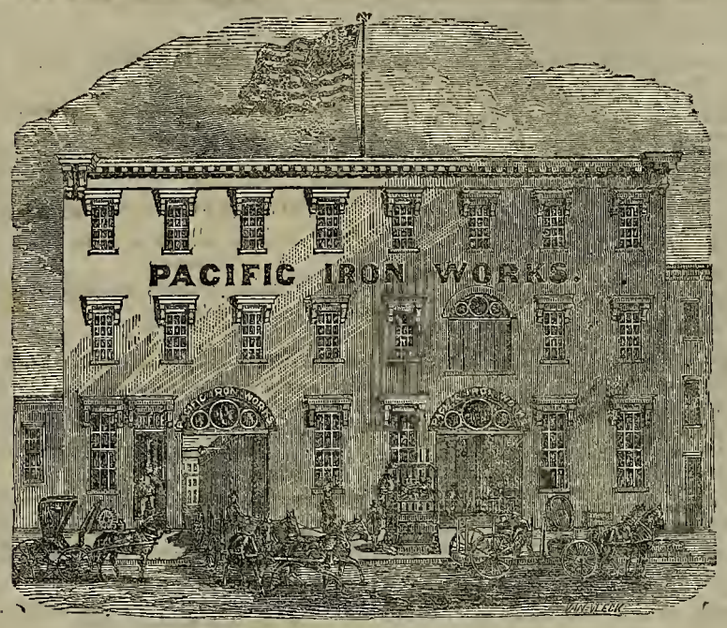

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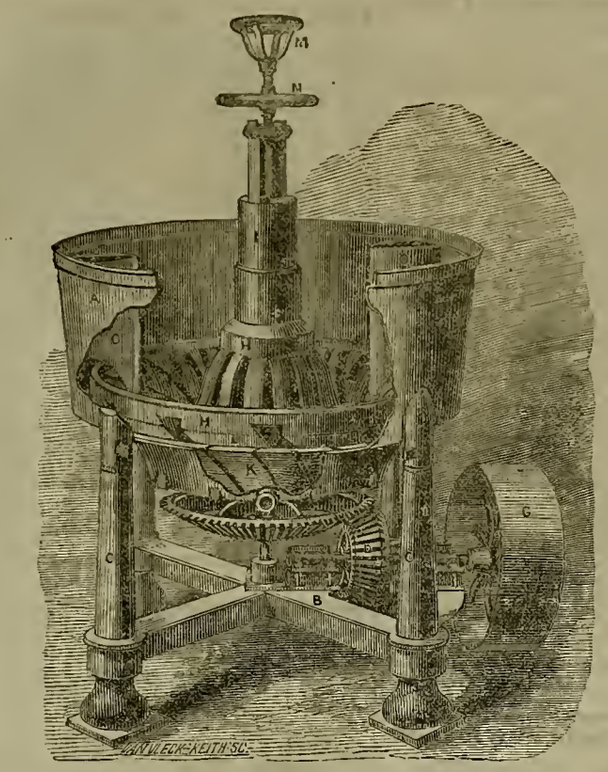

THE

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Grinder and Amalgamator.

In the engraving herewith exhibited, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Plates.

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The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory-formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

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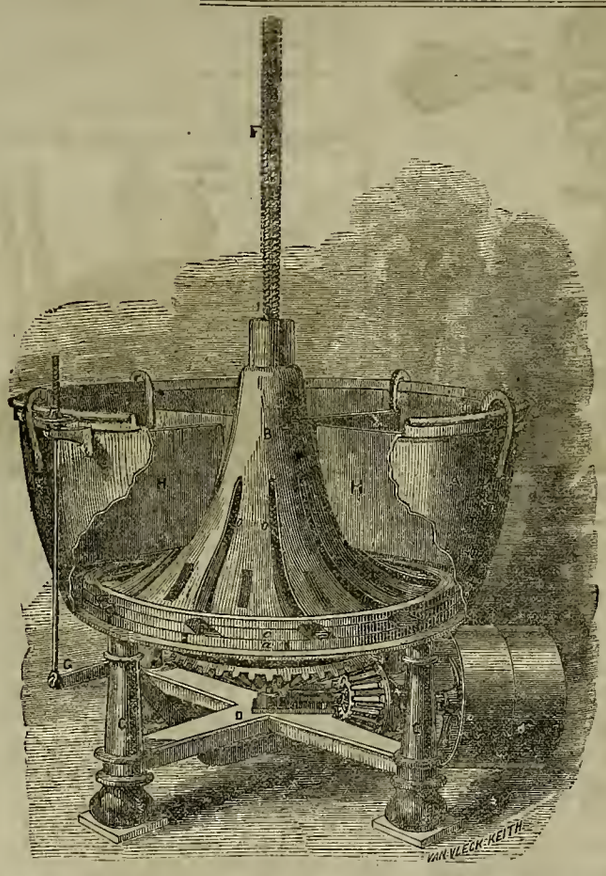
WHEELER & RANDALL, Inventors.

SAN FRANCISCO, JUNE 13, 1865.



THE EXCELSIOR

GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings.

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity, "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

Union Iron Works and Golden State Iron Works.

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.

SAN FRANCISCO

CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Puro Manila Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at TUBBS & CO.'S,

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14v10

QUICKSILVER

FOR SALE BY

S. F. BUTTERWORTH,

Northwest cor. Battery and California sts.

v9-19 SAN FRANCISCO.

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSIT ON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery, or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street, above First (opposite the Oriental Hotel), San Francisco

23v10

WE ARE NOW OFFERING OUR IMMENSE STOCK

—OF—

FINE CUSTOM MADE CLOTHING

—AND—

Gents' Furnishing Goods

AT PRICES THAT DEFY COMPETITION.

Our Stock of Clothing Consists of

ALL THE LATEST STYLES

BOTH OF MATERIAL AND FINISH,

A Large Assortment of

Trunks, Valises, Carpet Bags, Blankets, Etc.

AT EXTREMELY LOW PRICES.

J. R. MEAD & CO.,

8v10 Cor. of Washington and Sansome streets.

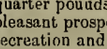
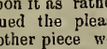
Let it be Known.—When any of our readers respond (by letters of inquiry or by the purchase of articles) to advertisements found in our columns, they will confer a favor, not only upon us, but upon this advertiser, by mentioning the fact of having seen the notice in our paper

GOOD MINING.—McCall, a miner on Dog Creek, a tributary of the Sacramento, some forty miles above Shasta, says the *Courier*, struck into a gulch last Spring, just by way of amusing himself, and after a little digging, found himself amused by the picking up of a lump of virgin gold weighing thirteen and one-quarter pounds. Looking upon it as rather a pleasant prospect, he continued the pleasant recreation and took out another piece worth $324, another $135, another $124, another $124,50, another $85, another $74, another $68, another $77, another $30.50. His aggregate receipts for the Spring, and until the water dried up, amounted to $6,000.

DODGE'S DIRT MOVER.—This new apparatus is in successfull opration near Allison's Ranch. The Grass Valley *National* says it is demonstrating its power every day, and the public may as well make up their mind to recognize it as one of the most useful inventions of the age. It will supersede scrapers as inevitable as sail vessels are superseded by steamers.

Pacific Mail Steamship Co.

The following Steamships will be dispatched on the following named days.

August 3d—COLORADO.....Capt. ——

August 18th—SACRAMENTO.....Capt. E. S. Farnsworth

From Folsom street Wharf

At 11 o'clock A. M., punctually to the hour,

For Panama.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A Baggage Master will be sent through each trip.

Cabin passengers will be berthed for Atlantic steamer.

OLIVER ELDRIDGE, Agent.

Corner Sacramento and Leidesdorff sts.

Machinery.

ATTENTION, MINERS!

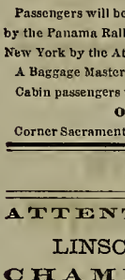
LINSCOTT'S PATENT

CHAMBER DRILL.

Great Improving in Blasting.

W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.



D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ¾ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

McCOMB'S

CUMULATIVE POWER PRESS

AND

ARROW TIE.

E. C McCOMB, Agent.

No. 1 Government House, cor. Sansome and Washington sts. 23v10 3m

NOTICE.

The undersigned having purchased the EXCLUSIVE RIGHT in and for the State of California, for the

Manufacture and Sale of

WINHAM'S

PATENT HOSE COUPLING,

Hereby caution all parties against the manufacture or purchase of the above Hose Couplings, except through us, as any infringement will be prosecuted to the full extent of the law.

PRESCOTT & SCHEIDEL,

Marysville Foundry.

March 31st, 1865. 13v10 3m

HANSCOM'S CRUSHERS,

Made in sizes suitable for Breaking Quartz for Batteries; Rock for macadamizing or concrete; Copper Ore for sacking, sampling, or concentrating; also, for crushing Quartz for Arastras and Grinders. The small sizes make a most efficient Crusher for Prospectors, and are arranged to be run by Hand, Horse, Water, or Steam Power. For further information address W. W. HANSCOM.

1 Golden State Iron Works, San Francisco.

THE HAMMER QUARTZ MILL.

[PATENT APPLIED FOR.]

This Machine is now complete and ready for sale. In constructing it, our aim has been to produce a light, cheap and economical Crusher—one adapted to mining on a small as well as on a large scale.

The elementary principle on which it operates is that of the stamp—the only one really reliable and economical.

But the stamp has many serious disadvantages, among which are its great weight and small velocity; the great power required to run it; difficulty in feeding properly; imperfect discharge, and the necessity of crushing wet, or the annoyance from dust in crushing dry.

All these difficulties are obviated in our machine, and the percussive blow of the stamp retained, with the further advantage of its being a drawing or grinding one.

We give to our hammers such absolute or relative weight and velocity as we choose—just such as to effect their purpose and no more—thus securing the qualities of the natural hammer blow.

The feed is self-adjusting and uniform, and as fast as the ore reaches the required degree of fineness (which depends upon the fineness of the screen or sieve used), it is instantly discharged, so that there is no packing of the ore under the hammers.

The mill crushes dry, with no more dust than that incident to feeding, which is trifling.

As the only support of the mortar is a single post set into the ground, the machine can be put in place at slight expense.

The size now being built weighs about 1,800 pounds complete; the heaviest piece not weighing over 275 pounds. It is driven by half a horse-power, and crushes from three to ten tons per day of twenty-four hours per day, according to the character of the rock and the fineness to which it is reduced.

PRICE,.....$800.

Larger ones will be furnished if desired.

We invite an inspection of the Mill now in operation adjoining the Foundry of DEVOE, DINSMORE & CO., on Fremont street, between Market and Mission, San Francisco.

Office, No. 11 Court Block, San Francisco, Cal.

21v10 **RIX & LOGAN.**

ATWOOD'S

Self-Regulating Windmill.

This Windmill is the most perfect self-regulator yet invented, and is capable of being adjusted to any desired speed. Manufactured at

232 Mission Street, North side, below Beale,

SAN FRANCISCO.

N. B.—We also manufacture DICKERSON'S SELF-REGULATING MILLS; also, Rotary and Stationary Mills of different styles and prices, varying from $50 to $500 each; also round and square Water Tanks made to order.

222 Mission street, below Beale. 5

HUNT'S

IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN

HORSE POWER

For Sawing Wood.

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,

No. 23 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

HUNT'S PATENT

Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,

7v10 128 Second street, San Francisco.

SALMON'S

PROPELLER AMALGAMATOR.

The proprietors and inventors of this machine, after fourteen years of practical experience in mining in California and Nevada Territory, and having a thorough knowledge of the wants of Miners and Mill men, have succeeded in making an Amalgamator, which, for the purposes intended, far surpasses any other yet presented to the public, and which can be furnished at less than one-half of the expense of any other Amalgamator, now in use, besides requiring less labor to clean and keep it in running order. The Amalgamator is simple in its construction, consisting of a pan or tub constructed of wood and adapted to either a Stone or Iron bottom. Opposite each other, and on the inside of the tub, are two flanges, from two to four inches broad, reaching from the top to near the bottom, with room for the mullers to pass under. These flanges are for the purpose of preventing the pulp from forming a circular current, and together with a number of wings placed like a screw propeller on the muller-shaft, force a current continually on the quicksilver at the bottom and under the grinding surface of the mullers. This peculiarity of propeller-screw and side wings, in combination with a deep tub, are what the proprietors claim as new and for which a patent has been applied for. The undersigned are now manufacturing three different sizes of this machine, and the attention of the public is respectfully called to the following results obtained, from the working of Rouse River rock, by this amalgamator, and assayed by Miller & Lumbaum, at Austin, Nevada:

No.	Fine		No.	Fine
Assay.....250	943	Assay.....300		990
Assay.....288	941	Assay for Chaman		980
Assay.....286	940	Assay Water Rock		966
Assay.....291	950	Assay Water Rock		998
Assay.....	.....	St. Helena Ledge, W. D.		966

These, including a hundred other batches, were all worked to within fifteen per cent., and some to within ten per cent., of the assay. Parties interested will find it to their advantage to call and see the above machine in operation. Manufactured at the San Francisco Foundry, San Francisco, California, by

J. & W. C. SALMON,

To whom all orders should be addressed. 15

TO QUARTZ MINERS.

Hinkle's Centrifugal Pulverizer and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUGAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steen, Nos. 37 & 39 Fremont street, between Market and Mission streets.

This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine, made entirely of Iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

Mr. Hanson, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 60 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to

PHILIP HINKLE,

At the Novelty Iron Works, Nos. 37 & 39 Fremont street. 16-1m

BAUX & GUIOD'S

Separator & Amalgamator

Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

Lapidaries' refuse, Refiners' ashes, Jewelers' sweepings, purchased or worked for a percentage. Ores and tailings worked or assayed at reasonable rates.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Hengh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,

Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8

FARRAND'S

Oscillating Amalgamator,

RECEIVED THE

ONLY PREMIUM

AWARDED FOR AMALGAMATORS

At the Recent Industrial Fair

OF THE

Mechanics' Institute of San Francisco.

Committee of Awards.

O. BELDEN,	W. T. GARRATT,	H. P. WAKELEE,
O. GORI,	GEO. JOHNSON,	C. M. RADCLIFF.

This Premium Amalgamator was placed on trial, at the Mechanics' Pavilion, with the Varney, Wheeler & Randall, and Hepburn & Peterson Pan, each working eight hundred pounds of crushed rock.

This Unrivaled Amalgamator possesses many advantages over all others now in use.

1st. It is capable of doing double the amount of work of the ordinary Pans, at a saving of more than one-half of the power.

2d. It reduces the pulp finer, thereby producing a better result.

3d. It requires less quicksilver by one-half at a charge, whilst the loss by trituration is comparatively nothing.

4th. As an Amalgamator of gold contained in sulphurets as also for very fine or flour gold, it has no equal.

5th. This Amalgamator involves no complicated machinery, and is less liable to get out of order than any of the pans.

Manufactured at the MINERS' FOUNDRY.

W. D. FARRAND, Inventor,

R. L. OGDEN, Agent, SAN FRANCISCO.

S. E. corner Montgomery and California streets.

19v9

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's Improved Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Crocodile Quartz Crusher; his Pulverizer; and his Improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast, amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

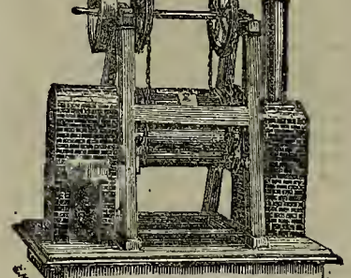
F. GENARD, **B. FAUCHERY,**

Metallurgist. **Engineer,**

24v9

WM. BRUCKNER'S

Furnace for Roasting Ores.



Now in Operation at 416 Market street.

This Furnace, which is portable, and can be carried on muleback, undertakes to roast without employing any labor whatever for the operation of stirring, which is accomplished by machinery that may be driven by steam or any other motor. It consists of an iron cylinder, which, being suspended by chains, in rotating mixes and stirs the ore, by an internal apparatus, quicker and more perfectly than can be done in any other furnace hitherto known in metallurgy. It can be applied to any kind of ore, and the rapidity and perfectedness of its operation, the great saving in fuel, and the entire saving of the labor usually required for stirring the ore, together with the small cost of constructing it, renders this furnace a most

Economical and Practical Invention.

The Furnace may be had of two sizes—one being nine feet in length and holding fourteen hundred pounds, and the other six feet in length, and holding eight hundred pounds. One horse power is required to drive the machinery of the larger sized furnace, and three-fourths of a horse-power for the smaller size. Parties wishing to erect such furnaces will please communicate to

W. BRUCKNER,

5v10 No. 416 Market street, San Francisco.

BLAKE'S

QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA,
WASHOE,
ENGLAND, FRANCE,
— AND —
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,

Box 2077 San Francisco Post Office.

CHAS. T. BLAKE,	E. TYLER,	WM. P. BLAKE,
Idaho City.	Michigan Bluff.	San Francisco.

4v10

VARNEY'S

PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setlers made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setlers for themselves, at the **PACIFIC FOUNDRY,**

1v10 San Francisco.

Hepburn & Peterson's

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th.

[Illustrated in the Mining and Scientific Press, April 9th, 1864.]

HEPBURN & PETERSON.

Nov8 3m*

Bella Vista Gold and Silver Mining Company, Cacachillaa District, Lower California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 26th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
A Cameron	118 110 120 121 122 123 124 167	65	$16 25
Mr J Collins	19	5	1 25
J E Abbott	62	50	12 50
Chas Phelps	97	6	1 50
Theo Neiborn	140 141	18	4 50
James Sherry	156	18	4 50
John Dunn	164	10	2 50
J R Kuenzl	170	10	2 50
S B Thompson	171 189 191	125	31 25

And in accordance with law and an order of the Board of Trustees, made on the 26th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Doro & Co., No. 327 Montgomery street, San Francisco, Cal., on the 12th day of August, 1865, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale

J. FULLER, Secretary.

Office, 326 Clay street, San Francisco. jy29-3w

Cherokee Gold and Silver Mining Company, Echo District, Humboldt county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 23d day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
J R Colburn	104	40	$30 00
J R Colburn	105	18	13 50
J R Colburn	100	15	11 25
J R Colburn	108	10	7 50
J R Colburn	109	5	3 75
J R Colburn	110	2	1 50
G Chittenden	6	5	3 75
— Washburn	10	25	16 75
J P Spaulding	11	55	41 25
C Vicis	52	80	60 00
G T Sewall	16	25	16 75
J H Gager	16	25	18 75
M W Lake	24	25	18 75
N B Terwilliger	28	5	3 75
S Peuston	29	1	75
S Howard	30	2	1 50
V Baron	31	10	7 50
S A Anderson	33	1	75
R Gardner	50	10	7 50
J B Murphy	08	25	18 75
O A Wager	90	5	3 75
H Powell	69	5	3 75
H Horstman & Co	02	4	3 00
Joseph Dardano	96	15	11 25
S W Raveley	111	4	3 00
E Chevassus	209	554	415 50
T Ogg Shaw	94	3	2 25
T Ogg Shaw	95	3	2 25
T Ogg Shaw	103	75	56 25
Wm Troop	26	26	21 00
Wm Troop	50	20	15 00
Wm Troop	56 57 59 60 66 71 72 73 74 75 76 77 78 79 80 81		
	82 83 84 85 86 25 ea	550	412 50
Wm Troop	210	51	38 25
A K Colburn	5 67 25 ea	50	37 50
A K Colburn	6 67 88-5 ea	15	11 25
A K Colburn	91	2	1 50
A K Colburn	97	10	7 50
A K Colburn	69	20	15 00
J L Dawns	34 35 36 37-10 ea	40	30 00
J L Dawns	38	15	11 25
L Francoul	206	554	415 50
L Francoul	206	446	334 50
W S Emery	39	100	75 00
W S Emery	40 41 42 10 ea	30	22 50
W S Emery	43	5	3 75
W S Emery	45	6	4 50
W S Emery	46	7	5 25
W S Emery	48	3	2 25
W S Emery	49	2	1 50
M H Fry	99 100 25 ea	50	37 50
M H Fry	101	20	15 00
M H Fry	102	5	3 75
M H Fry	114	4	3 00
W Brokaw	119 120 121 122-25 ea	100	75 00
W Brokaw	1-3	19	14 25

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Doro & Co., No. 327 Montgomery street, San Francisco, Cal., on Saturday, the 12th day of August, 1865, at the hour of 12 o'clock M. of said day to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

L. FRANCONI, Secretary.

Office, northeast corner of Montgomery and Jackson streets (Room No. 16), San Francisco. jy29-3w

Emilia Mining Company, State of Guerrero, Mexico.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 26th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Bepler, Justus	74	100	$50 00
Bilay, A F	4	20	10 00
Bilay, A F	5	20	10 00
Dorgelob, L	9	40	20 00
Ewald, A	38	20	10 00
Knight, E F	121	15	7 50
McLevao, T G	17	50	25 00
McLevan, T G	143	50	25 00
McLevan, T G	145	30	15 00
McLevan, T G	146	50	25 00
Merrill, A	144	50	25 00
Reibenstein, F	113	25	12 50
Roener, C	16	25	12 50
Sesser, P	26	20	10 00
Sasor, P	33	30	15 00
Strohl, P	170	45	22 50
Traxell, Wm	72	30	15 00
Traxell, Wm	225	15	7 50

And in accordance with law, and an order of the Board of Trustees, made on the 20th day of June, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Edwards, Olney & Co., at 626 Montgomery street, San Francisco, on Saturday, the 12th day of August, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, southeast corner of Montgomery and Washington streets. Office hours: 10 A. M. to 4 P. M.

San Francisco, July 29, 1865. jy29-3w

Great Western Tunnel and Mining Company, Aurora, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 27th day of July, 1865, an assessment of ten (10) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

JOS. C. FORD, Secretary.

Office, No. 20 Exchange Building, corner Washington and Montgomery streets, San Francisco. jy29

Hanscom Copper Mining Company, Low Divide District, Del Norte County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 25th day of July, 1865, an assessment of fifteen (15) cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 12th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

S. S. SWEET, Secretary.

Office, 609 Market street, San Francisco. jy29

Lord Byron Gold and Silver Mining Company, Devil's Gate District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of July, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 29th day of July, 1865 in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

H. B. CONGDON, Secretary.

Office, No. 620 Washington street (Room 5), San Francisco, California. jy29

Mosquito Quartz Mining Company, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22d day of July, 1865, an assessment of five ($5) dollars per share (one dollar per foot), was levied upon the capital stock of said Company, payable on the 24th day of July, 1865, in United States gold coin, to the Secretary, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 15th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. PARDOW, Secretary.

Office, 15 Montgomery Block, San Francisco. jy29

Old Colony Silver Mining Company, Austin, Reese River Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of July, 1865, an assessment of five ($5) dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 523 Montgomery street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. O. HOWARD, Secretary.

Office, 523 Montgomery street, San Francisco. jy29

Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 29th day of June, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Clapp, Mrs L A K	57	7	$3 50
Clapp, Mrs L A K	159	13	6 50
Doherty, Mrs J C	327 328-6 ea	12	6 00
Dorland, Thomas	239	50	25 00
Doyle, James R	347	86	43 00
Gaddis, Wm H	33	16	8 00
Gaddis, Wm H	34 35 36 37 36-10 ea	50	25 00
Howell, James a	56	7	3 50
Howell, James	325	270	135 00
Pa o, Calvin H	165	5	2 50
Hale, Calvin H	336	20	10 00
Hinchborn, J E	196	15	7 50
Hanson. C	200	15	7 50
Johnson, John	351	25	12 50
Jaffries, M S	334	30	15 00
Minot, William	352	125	62 50
Mason, N H A	143	133	66 50
Nichols, Emily	216	5	2 50
Nichols, Wm N	143	133	66 50
Newby, Richard	240	57	28 50
Newby, Richard	246 301 302 20 ea	60	30 00
Nowby, Richard	247 303 304 305 307-10 ea	50	25 00
Newby, Richard	264 271-50 ca	100	50 00
Newby, Richard	306	3	1 50
Nelson, L M	331	40	20 00
Phillips, Mra M E	150	5	2 50
Pelton, Miss N C Malvina	252	1	50
Rockafelar, Daniel	220	5	2 50
Stuart, L D	160	3	1 50
Smith, Mrs C A	238	5	2 50
Sawyer, C L	256	10	5 00
Van De Water	156	4	2 00
Van De Water	136	30	15 00
Van Veatch, Henry	277	15	7 50
Van Veatch, Henry	289	5	2 50

And in accordance with law, and an order of the Board of Trustees, made on the 29th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Edwards, Olney & Co., 626 Montgomery street, San Francisco, on Monday, the 14th day of August, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco. jy29 3w

BY AUTHORITY OF THE STATE OF CALIFORNIA

Having fully complied with the law by a deposit of **$525,000** bonds of the State of California and the United State

BIGELOW & BROTHER,

GENERAL INSURANCE AGENTS,

FIRE, MARINE AND LIFE INSURANCE,

Capital Represented.....$15,000,000.

California Deposit..... .... $525,000

Office Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.

LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets..... $1,500,000
HOME INSURANCE COMPANY, of New York, Assets..... 3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets..... 2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets..... 1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets..... 600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets..... 600,000
CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.

Policies issued on Freights, Cargoes, and Treasure, from and to All Parts of the World. Voyage War Risks taken on Hulls.

Fire Insurance Policies issued on all kinds of Insurable Property in the Country or City. Losses Payable in Gold Coin of the United States.

We represent the Oldest and Best Companies in the United States, and offer as favorable terms as any agency on this Coast.

Losses paid immediately on adjustment.

BIGELOW & BROTHER,

17-6m **General Agents.**

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OFFT, LINO (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, LOBE CASES, GOLD SCALES, CHEMICAL GLASSWARE and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 16, 1865. 11v10-tf

SAN JOSE INSTITUTE

—AND—

COMMERCIAL COLLEGE,

LOCATED AT SAN JOSE, CAL.

MALE AND FEMALE.

The next session of this Institution will commence on

Monday, July 31, 1865.

An experienced and competent BOARD OF INSTRUCTION is engaged, and every facility will be afforded for a thorough course of study, both in the Academic and Commercial Departments.

Catalogues, containing full particulars, furnished upon application to F. GATES, Director,

25v10-3m San Jose, Cal.

NOTICE OF APPLICATION OF MARRIED WOMAN TO become a Sole Trader.—Notice is hereby given, that JANE C. SMITH, of the city and county of San Francisco, intends to make an application to the District Court of the Fifteenth Judicial District of the State of California, in and for the city and county of San Francisco, on the twenty-ninth day of July, A. D. 1865, for an order of said Court, permitting her to carry on business in her own name and on her own account, pursuant to an act of the Legislature of the State of California, passed April 12th, 1852, entitled "An Act to authorize married women to transact business in their own name," and of the Act amendatory and supplementary thereto, passed April 18th, 1862. The business she intends to carry on is that of the purchase and sale, leasing and mortgaging of real estate, the cultivation of lands, and all matters therewith, or with either of them connected, and of a general trader, in the city and county of San Francisco and the county of Contra Costa.

JANE C. SMITH.

June 29th, 1865. jy1-4w

PARAGON PETROLEUM COMPANY.

Incorporated June 2, 1865,

Under the Laws of the State of California.

CAPITAL STOCK,

$600,000.

NO. SHARES.....6,000

Par Value.....$100

OFFICERS:

President.....ROBERT KIRK
Treasurer.....WM. H. TOBEY
Secretary.....D. S. CUTTER

TRUSTEES:

ROBERT KIRK, T. G. OUFF, WM. H. TOBEY.

OFFICE:

At WM. H. TOBEY & CO.'S Petroleum Agency, Room No. 28 Government House, corner of Sansome and Washington streets, SAN FRANCISCO.

The claims of this Company consist of ONE HUNDRED AND SIXTY (160) ACRES of oil land, favorably located on the North Fork of the Mattole river, adjoining the grounds of the Union Mattole Company, Mattole District, Humboldt county, California. The Company are now actively engaged in the development of the claims.

San Francisco, June 14, 1865. 24v10

CAPITALISTS

OF THE

PACIFIC COAST,

And others interested in the

NEW GOLD FIELDS OF COLORADO,

And the Western Territories, will do well to subscribe for the

Colorado Miner's Register.

PUBLISHED DAILY AND WEEKLY, AT CENTRAL City, in the heart of the great mineral belt of the Republic.

ITS CORRESPONDENCE from all parts of the country will be interesting to all Western men.

TERMS:

Daily—One Year	$25 00	Weekly—One Year	$7 00
" Six Months	13 00	" Six Months	3 50
" Three Months	7 00	" Three Months	2 00

Address, COLLIER & WALLS,
Publishers "Miner's Register,"
22v10tf Central City, Colorado Territory.

Metallurgy.

ASSAYERS

Desirous to commence an ASSAY OFFICE in the mines may buy, at a very low figure, in a prosperous mining county, a complete set of Assaying Apparatus, Scales, Chemicals, and everything necessary to carry on said business. Apply to Lock Box No. 782, Postoffice, San Francisco, stating name and where an interview may be had. 17v10

FIRST PREMIUM

FOR REFINING COAL OIL,

At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,
17v10 643 Third Street, bet. Brannan and Townsend.

EUROPEAN METALLURGICAL WORKS,

—AND—

Practical Mining School,

Bryant Street, Between Third and Fourth,

SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. KIMBALL, J. R. MURPHY.
10v10

To Prospectors.

THE Directors of the San Francisco PACIFIC METALLURGICAL WORKS offer the following inducements to Prospectors:

NOTICE.—Knowing it will benefit our country to have it well prospected, we agree, if any party will forward us samples of minerals of any kind for assay, express paid, inclose TWO DOLLARS for the same, to return them a correct assay, with the best method of working, and feasibility of having the same worked in this city.

WORKS—North Beach. OFFICE—511 Sacramento street.
Box 511, Post Office, San Francisco. [v9-20tf

WILLIAM PENROSE,

Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,

Is prepared to buy in any quantity

COPPER, SILVER, GOLD, LEAD

AND OTHER VALUABLE ORES;

Also Lead Bars Containing Gold and Silver,

☞ Full value paid on delivery in this City. ☜
Address Lock Box No. 992, P. O., San Francisco. 25v10

Copper, Lead, Gold, Silver,

Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,

Agent for Townshend, Wood & Co., Swansea,

No. 416 Battery Street, San Francisco.
15v10-3m

ORES WANTED.

Gold, Silver and Lead Ores Purchased.

OR WORKED BY SMELTING OR AMALGAMATING,

At my Metallurgical Works in the City

Assay Charges for Ore.....Only $2.50

Apply to **J. MOSHEIMER,**
14v10-1m 338 Montgomery Street, San Francisco

MARTIN & CO.,

Office, Stevenson House,

Corner California and Montgomery streets (up stairs).

WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES,

Assaying eight per cent. and upwards of Copper to the ton.

We will make advances upon Ores of Copper.
San Francisco, Post Office Box 1259. 22v10

TEETH

☞ **Extracting Without Pain.** ☜

Drs. Whitcomb & Dyer, DENTISTS,

[Successors to W. H. Irwin.]

No. 205 Third Street, near Howard,
v9 SAN FRANCISCO.

MR. LINCOLN'S FAVORITE POEM.—Quite a little discussion took place recently in this city, with regard to the authorship of a certain very fine piece of poetry, which was a great favorite with Mr. Lincoln, Its authorship was claimed for him by the *Flag*, of this city. The Boston *Commonwealth* says it was written by William Knox, a poet of cousiderable talent in Edinburg, Scotland. It was first published in 1825. —*Mining and Scientific Press.*

The poem to which the PRESS refers is headed, "Oh, why should the spirit of mortals be proud." It was written by William Knox, and may be found in a collection entitled "The Sacred Poets of England and America," edited by Rufus W. Griswold. Knox was a man of promise, but died at the age of thirty-six, in Edinburg, in 1825. The following verse, which should be the seventh, is omitted from the verses, as published in the papers:

"The saint who enjoyed the communion of Heaven,
The sinner who dared to remain unforgiven,
The wise and the foolish, the guilty and just,
Have quietly mingled their bones in the dust."
—*Morning Call.*

THE angelic of our race die early. Precious gems are not for lasting fame; they but perfume the temple and expire.

KELLOG CREEK PETROLEUM AND MINING COMPANY.

INCORPORATED JULY 11TH, 1865,

Under the Laws of the State of California.

NO. SHARES.....10,000

Par Value.....$50 00

W. F. BRANDRETH.....President
J. M. BUFFINGTON.....Secretary and Treasurer

OFFICE—Room No. 10 Government House, corner of Sansome and Washington Sts., San Francisco.

The claims of this Company consists of SIX HUNDRED AND FORTY (640) ACRES, situated on Kellog Creek, in the Marsh Creek Mining District, Contra Costa county, Cal.

One thousand (1,000) shares of the contingent fund is offered at the low price of ONE ($1.00) DOLLAR per share, full paid, all the stock being unassessable. All who wish to purchase, or make any enquiry concerning the Company, will please call on the Secretary,

J. M. BUFFINGTON,
2v11 Corner of Sansome and Washington streets.

OIL WELL BORING.

J. SEVENOAKS,

Contractor

For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Santa Cruz, Cal. 2v11

"Say, why should man for thirst be given
If not for wine bestowed by Heaven
To quench such drought as mine?
Without it, I'm a fish on land,
A barren heap of parching sand—
Then give me joyous wine."—*Trinklied.*

Delicacy of flavor, exhilaration without intoxication, and every other desirable property belonging to the rightly fermented Juice of the Grape, are to be found in the "Gerke Wine," from the celebrated Bosquejo Vineyard, Tehama county.

There is no wine produced in California that can bear comparison with this, and it would be difficult to find a European wine, of the same class, that can surpass it.

The vintage of 1862 is now offered for sale, in quantities to suit, by the Agent of the vineyard,

A. S. LOWNDES,

Basement of the New York Hotel, southwest corner Battery and Commercial streets, San Francisco. 20v10-qy

Mining Notices--Continued.

☞ *New Mining Advertisements to be found on another page.* ☜

Bolinas Petroleum Company, Marin County California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of June, 1865, an assessment of 25 cents per share was levied upon the capital stock of said Company, payable on the 1st day of July, 1865, in United States gold coin, to the Secretary, at the office of the company, No. 611 Clay street, Room 8, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 19th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees,

W. L. KIRBY, Secretary.
Office, 611 Clay street, room 8, San Francisco. jy1

Camargo (Eclipse) Gold and Silver Mining Com- Reese River Mining District, Lander Co., Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 17th day of July, 1865, an assessment of five ($5) dollars per share, in United States Legal Tender Notes, was levied upon the capital stock of said Company, payable at once, to the Secretary, at his office, or to W. B. C. HARKER, Superintendent, at Austin, Nevada.

Any stock upon which said assessment shall remain unpaid on the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 6th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale.

WM. T. REYNOLDS, Secretary.
Office, 423 Front street, San Francisco. jy22

Caledonia Tunnel and Mining Company, Gold Hill District, Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 9th day of June, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Old Certificates.	No. Shares.	Amount.
L B Adsit	1220	10	$30
L B Adsit	1223	10	30
L B Adsit	1223	10	30
L D Adsit	1224	10	30
E Ayers	1179	10	30
J W Burnham	45	10	30
J W Burnham	48	10	30
J T Brenan	256	5	15
T W Birdsell	686	5	15
T W Birdsell	946	5	15
Joseph Bassett	786	10	30
A Buetell	1276	2	6
H B Brooks	1279	10	30
A E Crano	1241	10	30
J E Clark	1163	10	30
Cantin & Everett	1190	5	15
J C Collins	1242	10	30
J C Collins	1284	6	18
R Z Clement	260	5	15
R Z Cement	261	5	15
R David	984	10	30
Gilbert Douglass	163	10	30
Gilbert Douglass	165	10	30
Gilbert Douglass	642	30	90
H C Douglass (balance)	643	2	6
T R Diehl	657	16	48

Names.	No. Certificate.	No. Shares	Amount.
E M Derby	1214	10	30
E M Derby	1215	10	30
E M Derby	1216	10	30
Edward Farnum	1282	10	30
J Holland	1227	5	15
Thos Hill	1111	10	30
Thos Hill	1112	10	30
Thos Hill	1113	10	30
Thos Hill	1114	10	30
H Harris	474	5	15
W H Harnden	684	10	30
W H Harnden	1091	5	15
A A Harris	726	9	27
J G Dodge	1169	20	60
J Johnson	1244	10	30
A Lindau	1205	15	45
W L Mead	78	25	75
W L Mead	79	25	75
Catherine McCallin	280	10	30
Catherine McCallin	1183	10	30
Peter Malley	515	3	9
C G Moxley	689	5	15
J W Mackay	808	10	30
J W Mackay	1057	5	15
J W Miller	1251	25	75
F A Munroe	1291	20	60
F A Munroe	1292	10	30
F A Munroe	1293	5	15
R B Owen	1257	5	15
E J Parker	145	10	30
S J Pattel	227	10	30
J Parrish	461	10	30
J Parrish	646	6	15
F L A Pioche	1281	7	21
A Pichiou	1165	10	30
J D Ryan	1223	10	30
E Stevens	1229	10	30
E Steveus	1335	30	90
B Sholdon	334	10	30
J B Satherland	373	5	15
H Schmiedell	1150	10	30
H Schmiedell	1252	5	15
E L Smith	1255	10	30
E L Smith	1256	10	30
Peter Taylor	988	10	30
E Tomlinson	1261	10	30
N N Tilden	546	10	30
A C Teitman	1268	20	60
A C Teitman	1269	20	60
A C Teltman	1272	10	30
G A Weed	296	2	6
L & E Werthoimer	787	14	42
L & E Wertheimer	918	5	15
F H Woods	1134	10	30

	No. New Certificates.	No. Shares.	Amount.
J M Boffington	103	30	90
C S Bowden	131	10	30
C S Bowden	132	10	30
C S Bowden	133	10	30
C S Bowden	140	10	30
C S Bowden	141	20	60
C S Bowden	142	20	60
C S Bowden	143	10	30
C S Bowden	144	10	30
C S Bowden	145	5	15
Bosworth & Russell	33	10	30
Henry Barrett	76	10	30
Michael Burke	80	15	45
Wm Bird	89	5	15
J S Burgess	139	5	15
Chas D Coon (Trustee)	67	10	30
J W Epley	82	10	30
J W Epley	83	10	30
J W Epley	84	10	30
J W Epley	124	10	30
J R Fitch	93	10	30
J R Fitch	94	10	30
Wm M Graham	74	10	30
Anna Garrity	87	10	30
W J Gunn	96	10	30
M Heineman	19	10	30
D Hardy	112	30	90
J Martenstein & Co	60	10	30
J Martenstein & Co	61	10	30
Henry McGary	111	10	30
F A Munroe	129	20	60
F A Munroe	130	5	15
John Maloney	119	5	15
E S Morrisson	122	20	60
Levi May	135	20	60
A Pichior	113	5	15
J G Perkins	103	5	15
J G Perkins	104	5	15
M Quinn	147	4	12
A B Samsou	2	10	30
A B Samsou	3	10	30
Isaac Swain	12	10	30
Isaac Swain	13	10	30
Isaac Swain	14	10	30
Isaac Swain	15	10	30
Isaac Swain	16	10	30
Isaac Swain	26	10	30
Isaac Swain	55	10	30
W P Taylor (Trustee)	78	10	30
W P Taylor (Trustee)	79	10	30
Isaac Tabor	116	10	30
Isaac Tabor	117	10	30
John Johnson	54	10	30
R Kavanaugh	88	10	30
F W Winne	53	10	30
F W Winne	80	20	60
J C Whitaker	49	20	60
J C Whitaker	50	10	30
Wm. N. Wade.	1005	75	225

And in accordance with law, and an order of the Board of Trustees, made on the 9th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the salesroom of Maurice Dore & Co., at No. 327 Montgomery street, San Francisco, on Saturday, the 29th day of July, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. M. BUFFINGTON, Secretary.
Office, 10 Government House, corner Sansome and Washington streets, San Francisco. jy15

Chloride Ledge Gold and Silver Mining Com- pany. Location of Mine: Blue Mountain District, Calaveras county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 11th day of July, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said Company, payable immediately. In United States gold coin, to the Secretary, No. 606 Montgomery street, San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. H. SMITH, Secretary.
Office, No. 606 Montgomery street, San Francisco. jy15

Dividend Notice—Golden Rule Mining Company.—At a meeting of the Board of Trustees of the Golden Rule Mining Company, held this day, a dividend was declared, payable on the twentieth inst., at the office of the company, No. 622 Montgomery street.

jy22 J. B. RUSSELL, Secretary.

El Dorado Gold and Silver Mining Com- pany, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 5th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Avery, J W	152	50	$35 00
Madison, J H	159	5	3 50
Adams, I S	214	10	7 00
Baker, C	112	5	3 50
Brown, I S	103	10	7 00
Bartlett, S A	107 108 105 109 110 62 63 64 65-5 ca	45	45 00
Bartlett, S A	60 61-10 ca	20	20 00
Bartlett, S A	not issued and 65 67 68 69 20 ea	100	100 00
Bartlett, S A	70	22	22 00
Bartlett, J A	155	10	10 00
Budington, W	210	25	25 00
Curran, B	150	10	bal 2 00
Castle, Mrs M J	213	10	bal 2 00
Conger, Thomas	101	125	87 50
Collins, G L	33 34 56 25 ca	75	37 00
Cooper, Frank	1 2 3 4 188 139 140 141 5 ea	40	40 00
Cooper, Frank	5 7 8 10 ca	30	30 00
Cooper, Frank	9 9 10 11-20 ea	80	80 00
Cooper, Frank	12	30	30 00
Cooper, A S	20	10	10 00
Cooper, A S	21 22-20 ea	40	40 00
Cooper, A S	23 24-25 ea	50	50 00
Cooper, A S	25 26 50 ea	100	100 00
Davis, S H	175	5	3 50
Dougherty, Phebe	189 190 191 192-10 ea	40	28 00
Dougherty, Ezra	195	10	7 00
Eagler, Wm C	205	5	3 50
Ford, R H	45	25	21 00
Fisher, B C	147	5	3 50
French, L F	160	5	3 50
Felker, W	211	5	3 50
Gardner, C A	143	10	2 00
Goodwin, Mrs R J	218	10	2 00
Gray, John	198	50	35 00
Gray, John	199	25	17 50
Gray, John	200 201 202 203 204-10 ea	50	35 00
Gould, A J	107 168-25 ea	50	35 00
Hill, John	171 172 173-50 ea	150	140 00
Houston, G D	150	0¾	4 70
Hall, E	163	10	7 00
Irving, David	183	2	1 40
Liddy, Catherine	71	10	2 00
Larson, Henry	184	10	7 00
Morgan, Benj	74	10	7 00
McMillan, Robert	100	5	3 50
Mason, A	161	5	3 50
Miller, F S	165	3	3 00
McPyke, H W	182	10	7 00
Otis, G H	156	2	2 00
Otis, G H	177 178 179-1 ea	3	3 00
Parsons, G H	79 152-5 ea	10	7 50
Porter, F F	174	25	17 50
Preston, J H	212	5	3 50
Scott, H D	120	5	4 50
Scott, H D	17	15	13 50
Scott, H D	13 14 18-25 ea	75	67 50
Staples, A F	102	5	1 00
Scott, Wm	148	5	3 50
Sinclare, A	181	3¾	2 36
Swinerton, D E	217	3	60
Sutherland, John	196	5	2 75
Sutherland, John	not issued and 116 117-10 ea	20	16 50
Treat, D W	78	50	39 00
Treat, D W	82 83 85 86 87 88 89 90 91 and not issued-10 ea	100	90 00
Tomson, S W	128	10	7 00
Thoburn, Thomas	120	10	7 00
Toleman, O G	101	5	1 00
Victory, John	130	10	7 00
Victory, Eliza E	187	2	1 40
Victory, Louisa	188	2	1 40
Victory, John J	185	2	1 40
Victory, Louisa M	186	2	1 40
Wadsworth, Frank	27 31-25 ea	50	50 00
Wadsworth, Frank	30	15	12 45
Wadsworth, Frank	153	20	16 75
Whitton, R J	131	10	10 00
Whitton, M S	134	10	3 00
Whitton, Wm H	136	10	10 00
Weir, James	151	5	3 50
Wait, George	158	10	7 00
Waterman, E R	176	5	3 50
Wood, A B	209	5	3 50
Winn, M	197	10	7 00
Young, Henry	208	5	3 50

And in accordance with law and an order of the Board of Trustees, made on the 5th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the office of Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, Cal., on the 7th day of August, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. WARREN CLARK, Secretary.
Office, 410 Montgomery street, San Francisco. jy22

POSTPONEMENT.—The above sale is hereby postponed until August 14th, 1865, at the same hour and place. By order of the Board of Trustees.

jy29 J. WARREN CLARK, Secretary.

Office of the Globe Gold and Silver Mining Company, San Francisco.—Location: Monitor Mining District, Alpine county, California.

NOTICE.—There will be an Annual Meeting of the stockholders of the Globe Gold and Silver Mining Company, at the office of said Company, 410 Montgomery street, in the city and county of San Francisco, on the 21st day of August, 1865, at 2 o'clock P. M., for the purpose of electing Trustees and for the transaction of such other business as may be brought before the stockholders.

LEVI MILLER, President.
WM. H. A. ATI, }
J. S. POWERS, } Trustees.
jy22-4w

George Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

ASSESSMENT No. 6.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, or to S. A. HAWKINS, Superintendent, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.
Office, 410 Montgomery street, San Francisco. jy15

Good Hope Gold and Silver Mining Company, Alpine District, Alpine County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on or before the 7th day of August, 1865, in United States gold and silver coin, to the Secretary, at his office, or to H. MORRIS, in Markleeville. [*Delinquents will be held for accruing costs after that date.*]

Any stock upon which said Assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

PRESTON MORRIS, Secretary.
Office, 526 Montgomery street, San Francisco. jy15

Hatleck Gold and Silver Mining Company— Location of Works: Great Mogul Mining District, county of Alpine, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of July, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 311 Commercial street, San Francisco, or to M. SCOTT, Mogul, Alpine county, Cal.

Any stock upon which said assessment shall remain unpaid on the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 26th day of August, 1865, to pay the delinquent assessment, together with the costs of advertising and expenses of the sale.

H. B. FORESTER, Secretary.
Office, 311 Commercial street, San Francisco. jy15

Honest Miner Gold and Silver Mining Company, Reese River Mining District, Lander Co., Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of July, 1865, an assessment (No. 5) of fifty cents per share was levied on the 22d day of July, 1865, upon the capital stock of said Company, payable immediately, in gold coin of the United States, to the Secretary, at his office, No. 223 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 12th day of September, 1865, at 3 o'clock P. M., to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. A. DRINKHOUSE, Secretary.
Office, 223 Front street, San Francisco, Cal. jy29

Jewett Gold and Silver Mining Company.— Location of Works, at Gold Hill, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of July, 1865, an assessment of one dollar per share was levied upon the assessable capital stock of said Company, payable on the 22d day of July, 1865, in United States gold coin, to the Secretary, at the office of the Company, 509 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and exponses of sale. By order of the Board of Trustees.

O. M. BURNHAM, Secretary *pro tem.*
Office, 509 Clay street, San Francisco. jy22

La Victoire Copper Mining Company, of Hunter's Valley, Mariposa county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of three ($3) dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, 606 Merchant street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 28th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

G. FRANCIS PETRACCHI, Secretary.
Office of La Victoire C. M. Co., 606 Merchant street, San Francisco. jy15

La Libertad Gold and Silver Mining Company, Cacachillas District, Lower California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 27th day of June, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 21st day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. VALE, Secretary.
Office, Exchange Building, San Francisco. jy8

Marathon Gold and Silver Mining Company, Keyes District, Moon county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 12th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Milo Page	1 2 3 4	178	$80 00
Milton Hodson	7 9 10 12	138	69 00
Daniel Darragh	28	198	99 00
Mrs W H Graham	31	10	5 00
W T Sharp	32	10	5 00
P B Green	33	10	5 00
Myron Lofover	34	20	10 00
J B White	35 36	30	15 00

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Cobb & Sinton, No. 406 Montgomery street, San Francisco, on Saturday, the 29th day of July, 1865, at 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

E. C. McCOMB, Secretary.
Office, Room No. 1, northwest corner Washington and Sansome streets, San Francisco. jy15

Napa Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.—Assessment No. 5.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of June, 1865, an assessment of sixty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the company, or to S. A. HAWKINS, Superintendent, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 14th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.
Office, No 410 Montgomery street, San Francisco.

NOTICE.—At the above meeting it was ordered that Assessments No. 1, 2, 3 and 4, levied July 1st, 1863, of 10 cents; August 24th, 1863, of 10 cents; October 27th, 1863, of 10 cents, and October 17th, 1864, of 30 cents, be and the same are rescinded, and stockholders having paid said assessments, or any portion, to be credited on Assessment No. 5 accordingly. (jy8) J. WARREN CLARK, Secretary.

Paragon Petroleum Company, Mattole Mining District, Humboldt county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 1st day of July, 1865, an assessment of thirty cents per share was levied upon the assessable stock of said Company, payable on the third day of July, 1865, in United States gold and silver coin, to D. S. CUTTER, Secretary, room 28 Government House, corner Washington and Sansomo streets, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 19th day of August, 1865, at 10 o'clock A. M., to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

jy15 D. S. CUTTER, Secretary.

Porter Gold and Silver Mining Company, Virginia District, Nevada,

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of July, 1865, an assessment of five dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at 534 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. W. WESTON, Secretary.
Office, 534 Clay street, San Francisco. jy22

Rose Gold Mining Company, Mariposa County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 8th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
A Bueteil	103	8	$4 00
Chas P Cowles	114	150	75 00
F L Hall	126	5	2 50
I C Pray	100	10	5 00
I C Pray	144	50	25 00

And in accordance with law, and an order of the Board of Trustees, made on the 8th day of June, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, on the 5th day of August, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. M. PECK, Secretary.
Office, 336 Montgomery street, San Francisco. jy22

St. Paul Gold and Silver Mining Company, Amador District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of June, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, to United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 22d day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. DUPERU, Secretary.
Office, No. 710 Sansome street, San Francisco. jy 8

Sheba Gold and Silver Mining Company, Star District, Humboldt county, Nevada.—Office, 712 Montgomery street, San Francisco, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 8th day of May, 1865, an assessment of five dollars, and on March 14th, 1865, an assessment of five dollars, and on November 25th, 1864, an assessment of fifteen dollars per share, was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company.

Any stock upon which said assessments, or either of them, shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessments, or either of them, together with costs of advertising and expenses of sale. By order of the Board of Trustees, made on the 17th day of July, 1865.

S. T. KING, Secretary.
Office, 712 Montgomery street, San Francisco.

NOTICE.—The Board of Trustees of the Sheba Gold and Silver Mining Company, having been legally advised that the second postponement of sale of stock delinquent for above assessments, made on July 5th, 1865, was unauthorized by law, have ordered the publication to be begun anew, as above. (jy22) S. T. KING, Secretary.

Sierra Nevada Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

ASSESSMENT No. 3.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July 1865, an assessment of seventy-five cents per share (being 25 cents per month for the months of May, June and July, 1865) was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, or to S. A. HAWKINS, Superintendent, at Silver Mountain

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.
Office, 410 Montgomery street, San Francisco.

NOTICE.—At the above meeting of said Sierra Nevada Co., Assessment No. 1, levied July 8, 1863, for ten cents, and Assessment No. 2, levied November 1, 1864, for twenty-five cents per share, were and are hereby declared rescinded, and stockholders having paid said assessment, or any portion thereof, will be credited on above Assessment No. 3 accordingly.

jy15 J. WARREN CLARK, Secretary.

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander Co., Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of fifty (50c) cents per share was levied on the 15th day of July, 1865, upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, E. J. DRINKHOUSE, No. 223 Front street, San Francisco, or to OZRO. T. TERRY, Austin, Lander county, Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 6th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

E. J. DRINKHOUSE, Secretary.
Office, No. 223 Front street, San Francisco. jy15

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine county, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 8th day of July, 1865, an assessment of sixty cents per share was levied upon the capital stock of said company, payable on the 10th day of July, 1865, in United States gold and silver coin, to the Secretary, at the company's office, No. 55 Montgomery Block, city and county of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.
Office, No. 55 Montgomery Block, S. E. corner of Montgomery and Washington streets. Office hours: 10 A. M. to 4 P. M. San Francisco, July 8, 1865. jy15

Smoky Valley Gold and Silver Mining Company, Smoky Valley District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of one dollar and fifty cents per share was levied upon the capital stock of said company, payable on the 15th day of July, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, or to T. W. BRADLEY, Superintendent, at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 30th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. W. KNIGHT, Secretary.
Office, 36 Exchange Building, corner Washington and Montgomery streets, San Francisco. jy15

Office of the United States Gold and Silver Mining Company, San Francisco, Cal.—Location of Mines: in Santa Fe and Ravenswood Mining Districts, Lander county, Nevada.

Notice is hereby given, that in accordance with a resolution of the Board of Trustees of the above named Company, passed on Wednesday, the 5th day of July, 1865, and in accordance with the by-laws of said Company, a meeting of the stockholders of the above named Company will be held at the office of the Company, No. 605 Clay street, in this city, on Thursday, the tenth day of August next, at 7½ o'clock P. M., for the purpose of authorizing and empowering the Trustees of said Company to sell one or more of the mines belonging to the said United States Gold and Silver Mining Company, and for the purpose of changing the by-laws of the same, and for the transaction of any and all business that may legally come before the meeting. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.
San Francisco, July 5, 1865. jy8-5w

Vulcan Mining Company, Santa Fe Mining District, Lander county, Nevada.

NOTICE.—The Annual Meeting of the stockholders of this Company will be held at Room No. 4, northwest corner of Clay and Front streets, San Francisco, Cal., on Saturday, August 5th, 1865, at 1 o'clock P. M.

jy15-td ALPHEUS BULL, President.

Vulcan Mining Company, Santa Fe Mining District, Lander county, Nevada.

NOTICE.—There are delinquent, upon the following described Stock, on account of Assessment levied on the 5th day of August, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
I C Bateman	102	5	$2 50
I C Bateman	103	5	2 50
I C Bateman	105	5	2 50
I C Bateman	106	10	5 00
I C Bateman	107	10	5 00
H Borlas	134	10	5 00
Wm M Davis	125	10	5 00
Wm M Davis	124	10	5 00
Wm M Davis	127	25	12 50
Wm M Davis	129	25	12 50
D H Hall	40	50	25 00
D H Hall	42	50	25 00
D H Hall	43	50	25 00
D H Hall	44	50	25 00
J F Morrison	156	10	5 00
J F Morrison	157	10	5 00
J F Morrison	158	10	5 00
J F Morrison	159	10	5 00
J F Morrison	160	10	5 00
A McMath	142	25	12 50
Quintin Ribo	116	10	5 00
Cornelius Smith	123	25	12 50
John R Stone	153	5	2 50
James P Wade	89	18	9 00
James P Wade	90	18	9 00
James P Wade	93	10	5 00
James P Wade	166	14	7 00
Ellen Wade	165	10	5 00
Geo H Willard	53	34	17 00
Geo H Willard	54	33	16 50
W M Williamson	141	5	2 50
A F Hussey	152	5	2 50

And in accordance with law, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on the 5th day of August, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. H. BURTON, Secretary.
Office, Room 4 northwest corner Clay and Front streets, San Francisco, Cal. jy22

Whitlach Yankee Blade Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22d day of July, 1865, an assessment of ten dollars per share was levied upon the capital stock of said Company, payable immediately, in United States currency, to the Secretary, 402 Front street (up stairs), San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 12th day of September, 1865, to pay the delinquent assessment thereon, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.
Office, 402 Front street (up stairs), San Francisco. jy22

Wisconsin Gold and Silver Mining Company, pany, Silver Mountain District, Alpine county, California.

ASSESSMENT No. 4.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of July, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the company, or to R. H. FOAD, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.
Office, No. 410 Montgomery street, San Francisco.

NOTICE.—At the above meeting, assessment No. 1, of 8 cents, levied July 8th, 1863, assessment No. 2, of 10 cents, levied September 19th, 1863, and assessment No. 3, of 50 cents per share, levied June 3d, 1864, were rescinded, and stockholders having paid the same, or any portion, will be credited on above assessment, No. 4 accordingly.

jy22 J. WARREN CLARK, Secretary.

Yosemite Silver Mining Company, Oro Fino District, Humboldt county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 3d day of July, 1865, an assessment of one dollar and twenty-five cents ($1.25) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to D. H. CROWE, No. 402 Front street (up stairs), San Francisco, or to Jas. T. MACLEAN, Superintendent, at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 19th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

S. O. PUTNAM, Secretary.
San Francisco, July jy8

Agent Wanted.

A good Canvassing Agent can secure permanent and remunerative employment by calling at the office of the MINING AND SCIENTIFIC PRESS, 505 Clay street.

Printer Boy Wanted.

An active and reliable boy, about sixteen years of age, who wishes to learn the printing business thoroughly, in all its branches, can obtain a situation at this office upon presenting suitable recommendations.

U. S. 7-30 LOAN.

By authority of the Secretary of the Treasury, the undersigned has assumed the General Subscription Agency for the sale of United States Treasury Notes, bearing seven and three-tenths per cent. interest per annum, known as the

SEVEN-THIRTY LOAN.

These Notes are issued under date June 15th, 1865, and are payable three years from that time in currency, or are convertible, at the option of the holder, into

U. S. 5-20 Six Per Cent.

GOLD BEARING BONDS.

These Bonds are now worth a premium of nine per cent. including gold interest from November, which makes the actual profit on the 7-30 loan, at current rates, including interest, about ten per cent. per annum, besides its EXEMPTION FROM STATE AND MUNICIPAL TAXATION, WHICH ADDS FROM ONE TO THREE PER CENT. MORE, according to the rate levied on other property. The interest is payable in currency, semi-annually, by coupons attached to each note, which may be cut off and sold to any bank or banker.

The interest amounts to

One cent per day on a $50 note,
Two cents per day on a $100 note,
Ten cents per day on a $500 note,
Twenty cents per day on a $1,000 note,
One dollar per day on a $5,000 note.

Notes of all the denominations named will be promptly furnished upon receipt of subscription. This is

The only Loan in Market

now offered by the Government, and it is confidently expected that its superior advantages will make it

THE GREAT POPULAR LOAN OF THE PEOPLE.

Less than $300,000,000 of the loan authorized by the last Congress is now on the market.

This amount, at the rate at which it is being absorbed, will all be subscribed for within four months, when the notes will undoubtedly command a premium, as has uniformly been the case on closing the subscriptions to other Loans.

In order that citizens of every town and section of the country may be afforded facilities for taking the Loan, the National Bank, State Banks, and Private Bankers throughout the country have generally agreed to receive subscriptions at par. Subscribers will select their own agents, in whom they have confidence, and who only are to be responsible for the delivery of the notes for which they receive orders.

JAY COOKE,
Subscription Agent, Philadelphia.

March 25, 1865. 17v10-3m

ADDENDUM.

PER OVERLAND TELEGRAPH:

PHILADELPHIA, May 17, 1865

Second Series all sold. Commenced on Third Series. Two Hundred and Thirty Millions (230,000,000) precisely like other two Series, except dated 15th July, and Government reserves the right to pay six per cent. in Gold instead of 7-30 Currency.

JAY COOKE,
Subscription Agent, Philadelphia.

MEXICAN

TEN PER CENT.

SIX YEAR LOAN.

The undersigned, having a full Power of Attorney from Gen. GASPAR SANCHEZ OCHOA, Commissioner for the REPUBLIC OF MEXICO, as Agent for the sale of the Bonds of this

POPULAR LOAN,

These Bonds will be sold at

Fifty Cents on the Dollar, Gold Coin.

They bear date July 1st, 1865, and are now ready to be furnished in sums to suit, in denominations from $50 to $1,000.

The principal and interest are payable in United States gold coin.

Interest payable semi-annually at the PACIFIC BANK, in the city of San Francisco.

The payment and redemption of these Bonds and Coupons are secured by the transfer to the undersigned, as Trustee, of one-half of the fiscal proceeds of all the

Revenues and Duties

Derived from the Custom Houses of

MAZATLAN,
GUAYMAS,
MANZANILLO,

And all the Ports in the States of

Sinaloa, Sonora and Colima,

AND FROM THE MINES OF SAID STATES,

Which Revenues and Duties, so soon as collected, are to be deposited and held by the undersigned in the

Pacific Bank, San Francisco,

And employed exclusively for the payment of said

BONDS AND INTEREST.

General OCHOA has made an assignment to the undersigned of one-half of all the duties received at the above Custom Houses, for the payment of said Loan and Interest, and also to appoint Agents to receive the above Revenues.

☞ SUBSCRIPTION BOOKS are now open at our Office, No. 3, third floor, Masonic Building, No. 420 MONTGOMERY STREET, San Francisco.

SAMUEL BRANNAN,
AGENT.

Francisco, Cal., July 1, 1865. 1v11-1m

HELMBOLD'S

FLUID EXTRACT BUCHU

For Non-Retention or Incontinence of Urine, Inflammation or Ulceration of the Bladder or Kidneys, Diseases of the Prostrate Gland, Gravel, Brick Dust Deposits, Dropsical Swellings, Organic Weakness, Debility, Female Complaints, Etc.

H

HELMBOLD'S

FLUID EXTRACT BUCHU

—AND—

Improved Rose Wash

Will radically exterminate from the system Diseases arising from Habits of Dissipation, *at little expense, little or no change of diet, no inconvenience or exposure;* completely superseding those *unpleasant and dangerous remedies, Copaiba and Mercury,* in curing these diseases.

E

USE HEMBOLD'S

FLUID EXTRACT BUCHU

In all Diseases of the Urinary Organs, whether existing in MALE or FEMALE, *from whatever cause originating, and no matter of how long standing.* It is pleasant in its taste and odor, IMMEDIATE in action, and more strengthening than any of the preparations of *Bark or Iron.*

Those suffering from *Broken Down or Delicate Constitutions, procure the Remedy at once.*

The reader must be aware that however slight may be the attack of the above diseases, it is certain to affect his *Bodily Health, Mental Powers and Happiness.* If no treatment is submitted to, Consumption or Insanity may ensue.

All the above diseases require the aid of a diuretic.

Hembold's Extract Buchu

IS THE GREAT DIURETIC.

L

HELMBOLD'S

HIGHLY CONCENTRATED

Compound Fluid Extract Sarsaparilla,

For purifying the Blood, removing all diseases arising from excess and imprudence in life, chronic constitutional diseases arising from an impure state of the blood, and the only reliable and effectual known remedy for the cure of Scrofula, Scald Head, Salt Rheum, Pains and Swelling of the Bones, Ulcerations of the Throat and Legs, Blotches, Pimples on the Face, Tetter, Erysipelas, and all scaly eruptions of the skin, and beautifying the COMPLEXION.

M

NOT A FEW

Of the worst disorders that afflict mankind arise from the corruption that accumulates in the Blood. Of all the discoveries that have been made to purge it out, none can equal in effect HELMBOLD'S CONCENTRATED EXTRACT OF SARSAPARILLA. It cleanses and renovates the Blood, instills the vigor of health into the system, and purges out the humors which make disease. It stimulates the healthy functions of the body, and expels the disorders that grow and rankle in the Blood. Such a remedy, that could be relied on, has long been sought for, and now, for the first time, the public have one on which they can depend. Our space here does not admit of certificates to show its effects, but the trial of a single bottle will show to the sick that it has virtues surpassing anything they have ever taken.

B

Two tablespoonsful of the Extract of Sarsaparilla, added to a pint of water, is equal to the Lisbon Diet Drink, and one bottle is equal to a gallon of the Syrup of Sarsaparilla, or the decoction as usually made.

The above Extracts are prepared on purely scientific principles—in *Vacuo*—and embody the full strength of the ingredients entering into their composition. A ready and conclusive test will be a comparison of their properties with those set forth in the U. S. Dispensatory.

O

HOW TO USE THE REMEDIES.

In Diseases of the Blood, Humors on the Face, or any and every part of the body, use Extract of Sarsaparilla, applying to Pimples and all external Humors or Eruptions the Improved Rose Wash.

Use the Extract Buchu for all diseases requiring the aid of a diuretic, except those of the Urinary Organs, such as Gonorrhœa and Gleet; in these use the Extract Buchu, and inject with the Improved Rose Wash.

L

☞ THESE EXTRACTS HAVE BEEN ADMITTED TO USE IN THE UNITED STATES ARMY, and also are in very general use in all the STATE HOSPITALS AND PUBLIC INSTITUTIONS throughout the land, as well as in private practice, and are considered as invaluable remedies.

MEDICINE DELIVERED TO ANY ADDRESS.

Direct letters to—

HEMBOLD'S DRUG AND CHEMICAL WAREHOUSE,
[594 Broadway, New York, next Metropolitan Hotel,

—OR TO—

HEMBOLD'S MEDICAL DEPOT,
104 South Tenth street, Assembly Buildings, Philadelphia.

D

Describe Symptoms in all Communications.

SOLD BY ALL DRUGGISTS EVERYWHERE.

Beware of Counterfeits!

ASK FOR HELMBOLD'S.

TAKE NO OTHER.

HOSTETTER, SMITH & DEAN,

Sole Agents for the Pacific Coast,
17v10 Nos. 401 and 403 Battery street, San Francisco,

W. T. GARRATT,

City

BRASS AND BELL FOUNDER,

Cor. Market and First Sts., opposite Oriental Hotel,
SAN FRANCISCO.

Manufacturer of Brass, Zinc, and Anti-Friction or

Babbet Metal Castings;

CHURCH AND STEAMBOAT

BELLS,

TAVERN, AND HAND BELLS AND GONGS,

FIRE ENGINES, FORCE AND LIFT PUMPS,

Steam, Liquor, Soda Oil, Water and Flange Cocks, and Valves of all descriptions, made and repaired. Hose and all other Joints, Spelter, Solder, and Copper Rivets, &c. Gauge Cocks, Cylinder Cocks, Oil Globes, Steam Whistles,

HYDRAULIC PIPES AND NOZZELS

For Mining purposes, Iron Steam Pipe furnished with Fittings, &c., Coupling Joints of all *sizes.* Particular attention paid to Distillery Work. Manufacturer of "Garratt's Patent Improved Journal Metal."

☞ Highest Market price paid for OLD BELLS, COPPER AND BRASS. ☜ 6tf

QUARTZ OPERATOR'S HAND BOOK.

A Book for Every Intelligent Prospector, Shareholder, Miner and Machinist.

ZENAS WHEELER AND P. M. RANDALL,

Authors and Publishers.

BOUND IN CLOTH—144 PAGES, DUODECIMO.

THE QUARTZ OPERATOR'S HAND BOOK is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

The work also contains an original and highly interesting discussion of the tractory and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Belshaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on page 415 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865.

Sold by booksellers generally. Price by mail, postage paid, $1.25. Address "Wheeler & Randall, at the Mining and Scientific Press Office, San Francisco." 2v11

NEW DISCOVERY

FOR DESULPHURIZING AND DECOMPOSING

METALLIFEROUS ORES,

—SUCH AS—

Auriferous Sulphurets, Arsenites or Antimonial Telluric, Gold and Silver Ores.

By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by

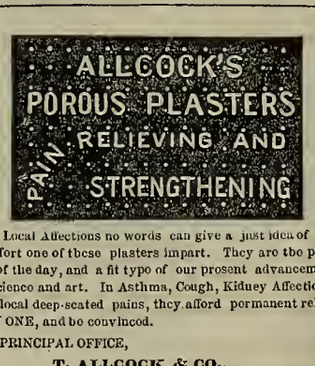
DANIEL ROSS,

Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me.

EDWARD ARNOLD,
Inventor and Patentee.

Monitor, Alpine county, Cal.

W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11



In Local Affections no words can give a just idea of the comfort one of these plasters impart. They are the plaster of the day, and a fit type of our present advancement in science and art. In Asthma, Cough, Kidney Affections, and local deep-seated pains, they afford permanent relief. TRY ONE, and be convinced.

PRINCIPAL OFFICE,

T. ALLCOCK & CO.,
Brandreth's Building,
New York.

W. F. BRANDRETH,
OFFICE AT
Crane & Brigham's.
SAN FRANCISCO.

☞ FOR SALE BY ALL DRUGGISTS. ☜ 9v25q

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(TO BE CONTINUED.)

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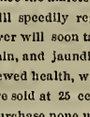
Booksellers and Stationers,
4v11 San Francisco, Cal.

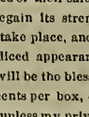
Brandreth's Vegetable Pills.—This medicine, of enduring efficacy, is justly prized as a corrector of all disorders of the stomach and bowels, the common symptoms of which are costiveness, spasms, loss of appetite, sick headache, giddiness, sense of bloating after meals, dizziness of the eyes, drowsiness, and cramping in the stomach and and bowels. These symptoms being suffered to remain, a torpid state of the liver supervenes, and all the horrors of dyspepsia are experienced. Every function of the frame is to a certain extent prostrated; but a little perseverance in the use of BRANDRETH'S PILLS will ever restore the system from this state of misery. Two or three doses will convince the afflicted of their salutary influence. The stomach will speedily regain its strength, a healthy action of the liver will soon take place, and instead of listlessness, heat, pain, and jaundiced appearance, activity, strength and renewed health, will be the blessed result. Brandreth's Pills are sold at 25 cents per box, enveloped in full directions. Purchase none unless my private Government Stamp is on the box. See upon it "B. Brandreth" in white letters.

Principal office, Braudreth Building, New York.

W. F. BRANDRETH.
10v2tf Office at Crane & Brigham's San Fran.



HATS, HATS.



The Largest Assortment

—OF—

HATS AND CAPS

—IS AT—

Meussdorffer's Hat Manufactory,

635 and 637 Commercial Street,

Between Montgomery and Kearny,

SAN FRANCISCO,

WHICH HE OFFERS FOR SALE

WHOLESALE AND RETAIL.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

TRY

WW WW WW'S SSSSSS 'S
W WW W SSS SS
W W W SSS S
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W W W W SSS
W W W W SSS
W W W W SSS
WW WW S SSS
W W SS SSS
SSSSSS

Ward's Perfect Fitting Shirts.

These Shirts are too well known to need any comment, both for perfect fit and quality. A large supply always on hand. Also, the largest stock of Gents' Fine Furnishing Goods on the Pacific Coast. Try one of his Shirts, and you will never wear any others.

S. W. H. WARD & SON,
No. 323 Montgomery Street,
(Odd Fellows' Hall)

New York House, 387 Broadway. 1, v1.

Mining and Scientific Press.

A Journal of Useful Arts, Science, and Mining and Mechanical Progress.

DEWEY & CO., PUBLISHERS And Patent Solicitors.

SAN FRANCISCO, SATURDAY, AUGUST 5, 1865.

VOLUME XI. Number 5.

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IN THE

MINING AND SCIENTIFIC PRESS.

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Notices of Meetings, per square, one week	$1 00
Notices of Meetings, per square, four weeks	2 50
Assessment Notices, of ordinary length, four weeks	5 00
Assessment Notices, of more than usual length, for each additional square	2 50
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Delinquent Sales, per square, three weeks	2 50
Postponements, per square, one week	1 00
Slips of Advertisements, printed for assessments, per hundred	1 00
Advertising blanks and circulars	Free

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One week, per square	$1 00
One month, per square	2 50
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Advertisements of great length, or of special character, inserted by contract on the most favorable terms.

☞ *Ten lines of solid advertising type constitutes a square.* ☜

Terms of Subscription.

THE MINING AND SCIENTIFIC PRESS is published every Saturday morning (containing sixteen pages—size of *Harper's Weekly*) at the following rates:

One copy, one year, by mail, in advance	$5 00
One copy, six months, by mail, in advance	3 00
One copy, one year, by express	6 50
One copy, six months, by express	3 50
Five copies, one year, by mail, in advance	20 00
By city carriers, per month	50
Single copies	12½
Monthly Series (or parts), containing 4 Nos	50
Monthly Series, containing 5 Nos	62½

THE CIRCULATION of the PRESS, already extensive, is rapidly increasing, and substantial men who can profit by widely disseminating information of their business amongst the most intelligent, influential and industrial classes of the Pacific States and Territories will find no more effectual or economical medium for advertising.

DEWEY & CO., Proprietors.

Patent Agency and Job Printing Office, 505 Clay street, San Francisco. July 1, 1865.

TERRIBLE DISASTER.—Our citizens have been called upon the past week to mourn over one of the most terrible disasters which has ever occurred on the Pacific coast. On the 30th of July, the steamer Brother Jonathan, bound for Oregon, struck a rock off the coast, near Crescent City, and went down almost instantly—so quickly that, so far as yet heard from, only one boat load of passengers was saved, sixteen in number, out of over 160 known to have been on board. Probably there has never been a trip made up the coast by any steamer or other vessel, on board of which were so many of the leading and prominent men of our city and State, as left here on Friday of last week on the ill-fated Brother Jonathan. The flags throughout the city are still at half-mast in token of respect and mourning for the unfortunate sufferers.

SOMETHING NEW.—Paper, iron and linen shirt collars are fast going out of use. They are giving way to an entirely new article in that line, known as Ward's India-rubber enamelled collar. They may be obtained at 323 Montgomery street, in this city. They are said to be a very neat and serviceable article.

MILL FOR ARIZONA.—A mill is in process of erection at Woolsey's Ranch, near Prescott, Arizona. The machinery will be upon the ground by the last of the present month, and will be put in running order with all convenient dispatch.

THE FIFTH INDUSTRIAL FAIR.

By reference to our advertising columns the reader will observe an official "notice to exhibitors," that the Pavilion is now open for exhibitors to enter their articles intended for exhibition. There will be no postponement of the day of opening, which has been fixed for Thursday next. Workmen are still busy, under the direction of the officers of the Institute, in finishing up the preparations for the display. The statue of Lincoln has already been placed upon its pedestal under the great dome of the Pavilion. The fountain, which surrounds it, is completed, and the water was let in yesterday. Parties are engaged in arranging the flags, evergreens, etc., which are to adorn the structure. The tables and other fixtures are ready to be put in place for the reception of articles to be exhibited. Some of the heavier pieces of machinery are in place, and the foundation is prepared for the engine. The carpenters and masons have finished their work upon the "Old Folks' Kitchen," and those premises are now ready to receive such contributions as the benevolent may see fit to contribute towards the object in aid of which it has been devised—to raise a building fund for a "Sailor's Home" in this city. The plan on which it is designed to furnish and manage this institution is fully detailed in our advertising columns, to which we would refer the reader.

We had the pleasure, on Thursday, of examining a magnificent cabinet, which will be placed in the mineral department by Capt. Aiken, of Coulterville, Mariposa county, of which we shall give a full description in our DAILY FAIR PRESS. It is expected that the mineral display will be an important one, and such as shall speak well for the value of our mines. Mr. Bruckner will exhibit his patent revolving cylinder furnace, for desulphurizing sulphurets. It is already in the Pavilion. The Fire-Alarm Telegraph has taken a stand, and the wires are already up to connect with the office at the City Hall. A gong will be placed in the Pavilion, upon which fire alarms will be sounded simultaneous with the fire bells. The proprietors of the MINING AND SCIENTIFIC PRESS have a new Franklin press in the building, which will be run by steam. It will be set in order by the first of the week.

Exhibitors should lose no time in making their entries, and arranging their goods for exhibition. Monday will be none too early to commence, even for the lighter articles of exhibition. More work can be done then, and more conveniently, than later in the week, when the rush commences. It is to be hoped that the railroad and steamboat companies will conclude to make a reduction in their rates of fare during the continuance of the Exhibition. If excursion tickets should be sold, they would doubtless tend to greatly benefit the pecuniary interest of both the companies and the Institute; and such a step would be most fully appreciated by the entire community.

THE Bonner shaft in the Gould & Curry mine is now 525 feet in depth. It is destined to be the deepest shaft on the continent.

QUARTZ MILLS AT REESE RIVER.

According to the Reese River *Reveille*, there are at the present time fifteen mills working in the Reese River district, and running 115 stamps. In addition to these there are now in process of erection, in various parts of the district, eleven other mills, the most of which will be completed within ninety days, and which will run 143 stamps. The following table, which we copy from the *Reveille*, shows the location and the number of stamps of each. The first column of figures gives the number of stamps in the mills now running, the second column shows the number of those in process of erection:

Name of Mill.	Location.	Stamps.	Stamps.
Atlantic & Pacific	Union,		20
Butte	S. F. Canon,	3	
California	Austin,	10	
Clifton	Austin,	4	
Confidence	Yankee Blade,		20
Cortez	Cortez,	10	
Eagle	Austin,	3	7
Eureka	Big Creek,	10	
Keystone	Austin,		20
Long Island	Austin,	5	
Midas	Freeman,	15	
Manhattan	Austin,	10	10
New York & Ione	Ione,		10
Parrott	Millville,		10
Pioneer	Austin,	10	
Pioneer	Ione,	5	
Phelps	Big Creek,	10	
Roos	Egan Canon,		5
Social	Egan Canon,	5	
Stephen	Egan Canon,		10
Stirling	Kingston,		20
Union	Austin,	5	5
Ware	Austin,	5	
Total		115	143
		143	
Grand total		258	

In addition to the above, steps are being taken for the erection of several other mills. Scarcely a week elapse in which we do not hear of the purchase of some mine by Eastern capitalists, who invariably take immediate steps for the erection of a suitable mill upon the same. Some idea of the amount of work done by these mills may be formed from the fact that their monthly consumption of quicksilver is fully forty flasks. The *Reveille* ventures the following prediction, "that within one year the mountains and hills and cañons and ravines of Reese River, will be vocal with the hum of industry, and will echo the music of a thousand stamps; for a tithe only of the causes now in motion will produce that effect."

THE HYDROSTATIC ENGINE.—Messrs. Hansbrow & Redding have made an important improvement in their hydrostatic engine, by which they are enabled to greatly economize in the use of water. One of these improved machines, of much greater power than that exhibited by them last year at the Fair, has just been built at the Miners' Foundry, for Messrs. Clark & Nichols, of Amador county. It will be put up on the St. Louis lode, at Irisbtown, about three miles from Pine Grove.

A TERRIBLE HAIL STORM.—The French papers speak of a terrible hail storm which recently occurred in the province of Cambia, France. It is said that the entrance to the canal at Vendhuilte was so obstructed by the hail, which froze into a mass, that a large number of workmen had to be employed with picks to clear it out!

GEN. ROSECRANE has gone to Reese River. He will be absent two or three weeks, and will doubtless be heartily welcomed by the citizens of our sister State.

IMPORTANT COAL STRIKE AT MOUNT DIABLO.

We are informed by Messrs. Greenhood & Newbaner, that on Saturday last they had the good fortune to strike a bed of coal in the shaft in which they have been working so long, at Somorville, near Mount Diablo. The company is known as the "Independent," and was organized in 1860. Their shaft is 710 feet, with a drift about 400 feet from the surface, running some eighty feet toward the vein. Over a year and a half ago, while working in this drift, they encountered a sudden influx of water, which drove them from the drift and the shaft. Heavy pumping machinery was immediately set to work, which has been kept in constant operation from that time to the present. A short time since they succeeded in lowering the water to a point a few feet below the mouth of the drift, when it was found that the flow was decreased fully one-half. They then commenced boring near the end of the drift, and on Saturday last, after the augur had reached a depth of twenty-eight feet, they had the good fortune to come upon a four-foot seam of coal. This coal, as brought up by the augur, appears to be of a character quite superior to that obtained from any of the other mines in the vicinity; all of which are worked much nearer the surface—thus proving that the Mount Diablo coal improves in depth. We are informed that on trial it has been ascertained that the coal which has now been struck contains a much less percentage of sulphur than that from the mines worked at a higher level. We congratulate Messrs. Greenhood & Newbaner and their associates in the fair prospect which they now have of soon being reimbursed for the heavy outlay expended in this important development.

CONSOLIDATION OF IMPORTANT MINING CANALS IN NEVADA COUNTY.—It is stated by the Nevada *Gazette* that the Middle Yuba Canal and Water Company and Eureka Lake Water Company, who have long been in litigation regarding their respective ditches and water privileges, have settled all their difficulties by consolidation. These companies supply a large extent of mining country with water, which is chiefly used in hydraulic operations.

LATEST FROM THE MATTOLE OIL DISTRICT.—Prof. Rowlandson has shown us a bottle of oil handed him while he was passing through Napa, on Friday last, and which was obtained from the Allen & Sutter Co's well, on the Mattole, at the shallow depth of only forty-five feet. The sample was a portion of some that was brought to that place by a messenger dispatched for that purpose, and was handed to the Professor that he might make an analysis of the same.

A PETROLEUM REFINERY is about to be established in this city. The locality selected is near Meigg's wharf, in the northern portion of this city, a point convenient for receiving the crude material, and re-shipping the same when required. The refining of petroleum and manufacturing of illuminating and lubricating oils must soon become an important branch of business in this city.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

THE AGE OF GOLD-BEARING ROCKS.

BY THOMAS ROWLANDSON, FELLOW OF THE GEOLOGICAL SOCIETY, LONDON.

NUMBER SEVEN.

PALEONTOLOGICAL.

The indefinite and sparse character of the palcoatological evidence hitherto announced almost precludes the possibility of framing even a short paragraph on the matter; for although the State Geologist has so far unbended as to publish, as already quoted in this series, the fact of certain forms being found in particalar beds of the Sierra Nevada no information has as yet been afforded how far such fossils are calculated to throw light upon the subject of the age of the auriferous and argeotiferous rocks found in Califoraia; and how far the anticipated volume of the paleontological results of the State survey, which has been so long promised, and whose advent has been more than once announced, will afford assistance in the inquiry, it would now be idle to speculate upon. If anything spscially interesting relating to the point under investigation should appear in this long promised volume, it will be commented upon hereafter.

In the meantime it may be statcd, on the information of Mr. Manu,* that *belemnites* have been found in beds at Mount Bullion, associated with and enclosing the celebrated "Pine Tree" vein on the Mariposa or Fremont estate, which vein is only a small section of the great gold vein which is found to crop out in a course of more than forty miles from beyond Carson Hill to beyond Mariposa, and on which have bsen opened some of the largest mincs ever worked in the State, some of which bave yielded occasionally marvellous sums; respecting which we may iostance a case at Carson Hill, where it is said that $90,000 was obtained at one blast, and $360,000 in four days working; io corroboration of which extraordinary statement it may be meutioned that the writer saw one stone, obtained at the time alluded to, which sold in London for $24,000. The fact of bclemnites being found near this vein, on Mt. Bullion, clearly establishes the fact that this part of the vein must have been filled, not earlier than the Jurassic period,† and probably very much later. A most interesting inquiry is open for some one to investigate, viz: wbether the entire length of the vein under notice crops out in the course of its entire length through one or many series of beds, and whether it is also connected with only one or several geological periods.

Prior to the statement made to me by Mr. Mann, alluded to previously, I had observed indications of pre-existing animal life in some beds on the Merced river, about four miles from that part of Mount Bullion where the belcmnites have been discovered. They were of a character difficult to describe, consisting in the greater part of rows or coaguies, of small cylindrical hollows, often as fine as the finest sewing needles; but in a few instances of nearly half an inch in diameter. The walls of the largsr openings were, however, irregular and broken dowu, so as to afford no accurate idea of the substance which originally gave form to these hollows, which were evidently the exterior casings of some previously enclosed substance, the original matter of which had entirely disappeared. In the immediate vicinity of the appearances just noticed, are numerous massive boulders, evidently derived from the neighborhood, the substance of which coasists of large angular pieces of stone commonly of a chloritic character, accompanied by white nodular pieces, possessing an appsarance very similar to that presented by pumice-stone; the whole having been impacted in a sort of grey-wacks mud, subsequently hardened into stone. At the time I noticed them, I perhaps somewhat to prematurely, assumed that these appareot sponge-like minerals were pumice; subsequent reflection, however, has suggested that they might have been fossiled sponges or corallines, and I much regret not having collected a few specimens for subsequent more careful examination and distribution. The appearances presented by the indications, afforded in the solid rock, were of such a nature that they could not have been dissovered therefrom, excepting by very delicate manipulation and a considerable amount of labor. Sufficient evidence has already been adduced in the instaocs of the belemnites already noticed, to show that auriferous bearing quartz veins, of the most important character, not only as regards magoitude, but also for possessing exceedingly rich metallic contents, exists in much later formations than which has usually been accorded as furnishing auriferous veins, and has fully justified a speculation which I ventured to announce in the *Alta California* of the 10th of December, 1863, in a concluding article under the same caption with this series, viz: that "be was at any time prepared to hear and have satisfactory evidence adduced that auriferous bearing quartz, pyrites or veins of these minerals, mixed in any or all proportions, have been found in strata of the latest periods." A theory which appears to be fully justified by later information.

[To be Continued.]

*This gentleman was deputed by the Boston Academy of Sciences to visit California, the Sandwich Islands, etc., in order to collect specimens of natural history. He returned to Boston by the steamer of the 15th instant.

†So called from the Jura Mountains on the borders of France and England; it corresponds to the Lias, the oolite and the Wealden of England.

[Written for the Mining and Scientific Press.]

Interesting Letter from Austin, Nevada.

Editors Press:—In contributiug to your valuable columns, I am actuated by a desire to enhance the mining interest. Being a miner myself, and having a pride in the occupation, I do not feel like being swept into the vortex of destruction which mining, as now managed, appears to be approaching, without entering my protest. Mining has its dark und bright sides, and nature enough faults and freaks to make it a business of hazard at the best. Yet I do hold, and facts will bear me out in the statement, that mismanagement bas done more to drive the large amount of surplus capital, so much needed, into other channels, than all natural causes combined. Assessments, one after another, have been paid under the impression that great ends were to be accomplished, the mine proven and the adventurer rewarded; while the truth was—the greater portion of the means wers squandered, and the balance so misapplied as to be valueless to the end in view. This being the rule rather than the exception, is it strange that this kind of mining should bring disaster upon the country and the business? Scalded cats scare at cold water; and as the public miud is scalded, we must begin by educating it into the belief that mining, when managed as other business, with reasonable economy and skill, will not only pay, but largely so.

In employing agents, choose none that you would reject in your own private business. To be honest, is a very good characteristic of an agent; but it matters but little after our money is disbursed to know that although it was honestly spent, yet through ignorance so misapplied as to be valueless as to the purpose intended. Lack of experience and judgment on the part of superioteadents has done more to disparage mining than all otber causes combined. Were I to attempt to enumerate the number of companies that have thus uselessly expended thousands upon thousands of dollars, time would fail me. This is the case more particularly with San Francisco incorporations, and the chief cause thereof is the frequent changes and incompetency of those employed.

The great aumber nf ledges in Reese River, of known and demonstrated value, places the mines of that district beyond the cavil of the doubting. There are also innumerable scams in that region, containing more or less quartz, but differing from veins proper by having no ore channel; these may be counted by thousands. The future of this vicinity is onward and is bound to surmount all the difficulties thrown in its way. We shall more than double our preseat mill capacity this season; but, unfortunately for those who are investing, I do not see that the amount of ore is in any wise materially increased.

Some of the mill companies seem to be alive to the importance of having ore of their own to crush, and among them we may mention the Confidence Mill and Mining Company. There is but little interest in developing the mines compared to that of milling, and if in the course of human events mills are idle, we will not therefore denounce the country as a bumbug. Capital that does not throw around itself the safeguards for its own protection, should not be denominated *intelligent* capital; but sooner or later will reap the reward of the blind leading the blind. The Savage mine the past month, furnished one-fourth of all the bullion shipped from Austin. It would be very desirable if a portion of the go-aheaditeness of the Savage could be spared to some of the other companies; you would then bear of larger shipments of bullion.

We have recently been blessed with copious showers that have moistened the earth to the depth of several inches and will render irrigation unnecessary this season. Our fertile soils and frequent showers bid fair to enable us to rival California in point of agriculture, and far surpass her as to grazing. McH.

Austin, July 21, 1865.

[Written for the Mining and Scientific Press.]

Reese River Mines.

Editors Mining and Scientific Press.—The mines of Reese River district, in which the Yankee Blade mines are included, extend over a beltof country from Marshall cañon, on the south of the town of Austin, directly through the town to Yankee Blade cañon on the aortb, a distaace of about five miles; and from the bass of the foot hills of these mountains, on the west side, running east to the top of Lander Hill, and thence on to the summit of Central Hill, a distance of four miles.

NUMBER OF LEDGES, ETC.

Tbeir name is "legion," as the tract of land above described is literally "carved out" into parallel lines of ledges, running from west to east, and pitching from south to nortb, (or very nearly so), and varying in distance, one from anotber, from 50 to 100 feet, and in some instauces as far as 300 to 400 feet. The greater portion of them are the best defined ledges I have ever seen; and never have I seen ledges that crop out to the surface with such regularity. Their casings, as they go dowa, are remarkably distinct and uniform, and notwithstanding tbeir almost inaumerable number, within the space referred to, I cannot see but that tbe majority of them present the very best geological proofs of permanency and valus. An additional proof is daily being given to this, by tbe very excellent ores that are being reached by tbose who bave had the enterprise and courage to persevere in prospectiug their cluims to a lower depth.

THE RICHNESS OF THE ORES HERE

Cannot bs denied; as from the several hundred ledges that bavo been opened, two thirds, at least, have produced much valuable ore, assaying from $150 to $1,250 per ton, and, in some instances, even as higb as $2,000.

CHARACTER OF THE MINERAL.

From the surface downward, to near the water level, the ores consist of chlorides, bromides, silver glance and some native silver, with occasionally what I should term a "silver mat," in combination with lead, antimouy, copper, and a small per cent. of iron., Tellurium abounds in a very irregular combination, as it is only occasionally that telluric silver can he met with above water, while bclow that level much of that metal can be traced. In all silver mines, on approaching water, the ore changes to the sulphuret class, showing a much greater amount of autimony than above. I would here add tbat this latter is the only base metal abounding to any appreciable extent which offers any difficulty to the successful treutment nf the ores. The (so-called) ruby silver, of tbese miues, is one of the combinations of antimony and silver, kaown to mineralogists as "miargyite." Another combination of the same metals, produced by their varying proportions, is knowa as "antimonial bleud." These, in the sulphuret form, constitute the principal character of the ores here, though, in some instances, sulpburet of copper and iron make their appearance. Tbere has been found, in one particular section of this district, some veins of cupriferous silver ore, but tbat is the only exception.

I cannot understand why the ores here should not be treated, in their reduction, to as good advantage as any of the silver nres on the Pacibc coast, as I consider them, as a whole, superior to any I have ever seeu, eitber from Mexico, Washoe, or elsewhere. Tbey should be worked to within ten per cent., at most, of fire assay. Whether well, or ill-founded, mucb complaint exists as to the per cent. of precious metal extracted from the ores by some of tbe mills here.

FOREION CAPITAL

Is pouring in with a most wondrous liberality. Nearly every one of those who went East last Winter and Fall, to offer Reese River and other Nevada mining stock for sale, bave succeeded in accomplishing their object, and are now receiviug further orders to purcbase still more. Many of tbe agents of these Eastern and English capitalists are here, on the ground, pushing on work with a vigor that most certainly does credit to their energy and enterprise.

BULLION SHIPMENTS.

It is to the fact that many of the hcretofore bullion producing mines, have recently cbanged hands, whereby has arisen the necessity for much new and improved machinery, which is now in course of erection, as well as tbat many others are about beiog negotiated for, and, of course, must stop work pending sale, that we may attribute tbe late very apparent falling off in bullion shipments from here.

AUSTIN IN THE FUTURE.

Much as we may wonder at the rapid progress this little burg has made, since the "Pony Express man" accidentally stumbled upon tbs first prospect of silver in these hills, it is not a tithe of wbat any reflecting mind can see in the future of this place. When we take intn account the almost unlimited umount of capital invested and seeking investment here; the preparations that are being made to set to work in good earnest; the immense amount of machinery coming bere, and already on the ground; the extensive and permaoent character of the works now in course of erection, for mining as well as for milling purposes; all these things, combiaed with the almost unlimited field of mineral producing country surrounding this place, must most assuredly, in a very short space of time, advauce this town to an importance second to none oat of San Francisco.

Ex-Goveroor Bigler, of Pennsylvania, has just left here, where he had been for some time, seeking to invest, and, as I understand, has done so. He left "most favorably impressed," as he himself expressed it, "with tbe very rich prospects tbis country offers."

NARROW LEDGES.

Some casuists, influenced by interests inimical to this place, will say, for want of any stronger argument, tbat the "ledges arc too narrow to be valuable;" but to me, the compactness and concentrated form in whicb they present a given amount of value, only adds still more to their relative worth. This becomes more especially apparent when we compare such ore as is found in the Comstock, of which at $30 per ton, you require ten tons to give $300, while with Reese River ores, which average $150 per ton, wbich may be considered rather a low estimate, you have but two tons of ore to treat in tho latter case, against ten in the former, giving tbe richer ore the advantage of the difference in expense of reduction, hauling, etc.

WOOD AND WATER.

The former, I should infer, from ths low rate at which it was sold the past Winter aod Spring, $6 per cord, cannot be scarce in this country; and as to the latter, there ars any amount of excellent springs issuing from tbe mountains and hills in every direction, while every ledge upon which the miner sinks to a certaia depth, approaching to 150 feet, gives a copious supply of water.

THE "HONEST MINERS" ARE LOOKING EASTWARD,

Whence they hope in future to receive tbe just reward of their adventurous and hard earned discoveries, to which they think—and I am sure humanity all the world over, leaving out Montgomery street—will dn them the justice to admit they are entitled. They set your San Francisco "freezers" down as a soulless set of "sharks," and are determined to shake them off as soon as possible, and never more to place themselves within their "loving embrace," to receive such a "bear's hug" as many nf the poor fellows have experienced from them of late.

There are several really valuable claims lying still here, from which paying ore could be taken duily, in which San Francisco men hold the controlling interests, but "dog-in-manger-like," will not have them worked, nor allow tbe locators to work them. And many nther claims, controlled in the same way, on which extraordinary assessments are levied, for which there would seem to be ao reasonable call, except to freeze out their poorer partners. This, added to what I have already described, as being the cause of stagnation here, seems to have contributed to it more than anything else.

However, the dull times seem to be a thing of the past, and better days are fast dawning on the city, whose mud-sills seem to be nf silver ledges.

In my next, the mills in operatioa, and those in course of construction within this district, as also the leading mines, the management of which I shall deem note-worthy, will be attended to; and continuing my communications to the Press, the several surrounding mining districts will be described in turu.

Austin, Nevada, July 29, 1865. J. R. M.

Victor Hugo writes: "The thunderbolt which has broken on Washington bas startled the world. Darkness of this kind occur in the history, after the dawn of night. But the American people is a colossus of bronze. Traitors can scratch it, but they know not how to destroy it. If liberty should fall in America, there would be a shipwreck in humanity. Frightful deluge."

Statistics affirm that of one thousand infants fed by a mother's milk, only an average of three hundred die young; while of the same number brought up by wet-nurses, at least half do not live one year.

A Trip to the Mountains.

NOTES FROM THE JOURNAL OF A. S. N.

From San Andreas we journeyed eastward. On the way from the little town of El Dorado, we saw considerable placer mining, mostly by Chinamen. El Dorado is a mining town, but there is little work being done there at this season of the year, on account of the scarcity of water. In passing from El Dorado to Dunning's saw-mills, we saw a great variety of country—some parts quite level and finely timbered, and other parts mountainous and barren. Near the mills are extensive cliffs of argillaceous rocks, worn into deep gulches by the action of water. Winding down a steep grade over these rocks for more than a mile, gave us a fine opportunity to examine its character.

From Dunning's to Dunbar's mills we had a high mountain to climb over. For the distance of two miles the ascent is very steep, and our team was over two hours in ascending it. The forest trees by the way are large and handsome, consisting of pine, fir, and cedar. In fact, the trees increased in size and beauty till they reached the climax in the "Big Tree Grove." The Big Trees have been described by many who have visited them, but to gain a correct idea of their greatness, one must visit them. This is a delightful place for visitors—beautiful valley, fine atmosphere, brook of cool, running water from the melting snows of the Sierras, excellent hotel accommodations, with a gentlemanly host. We do not wonder at the rapid growth of these trees, when we consider the richness of the soil in the valley, the decomposing surface rock of the surrounding hills continually furnishing nutriment for them.

About three miles south of the Big Tree Grove, are the "cliffs" on the banks of the Stanislaus. The perpendicular rock is not very high—not so high as we had anticipated from the descriptions given us—but the scenery, standing on the summit of these cliffs and looking down into the deep gorge and beholding the river rushing and foaming along down its narrow windings, and over rugged rocks, thousands of feet below, is sublime. Not even Yo-Semite gave as such an idea of vastness, as this valley. The rock of the cliffs was formerly a crystaline formation, now much changed. We obtained from it some fine specimens of serpentine. Several hundred feet below the summit of the cliffs is an aqueduct, which conducts the water from the Stanislaus, taken from the river some fifteen or twenty miles above, to Murphy's, and the country below.

At Murphy's, hydraulic mining is carried on quite extensively. On the south side of the village, and adjoining it, there is an ancient channel filled with diluvium, which is worked in some places to a depth of nearly one hundred feet from the surface. The bed-rock of the channel is limestone. The drift is raised by water-power with derricks. The water which is used for washing the drift is supplied by an aqueduct, situated on an adjoining hill about seventy-five feet above the works, and is conducted through pipes five or six inches in diameter, and forced through a smaller pipe upon the gravel. Much gold is obtained by this process, and miners find it a very profitable employment.

Three miles northwest of Murphy's, at the village of San Antonio, is located the Noble Copper Mine. This company has a fine steam engine for working their shaft, which has been sunk to the depth of 113 feet. The thickness of the vein at that depth, which is found widening as it descends, is three feet. Work at the mine has been suspended for some time, owing to the death of the president; but it is to be resumed pretty soon. The specimens of ore we saw were of a good quality.

A short distance from the Noble is the San Jose Copper Mine. A shaft has been sunk for a short distance into the vein from the surface, but the company are now running a tunnel into the base of the hill to strike the vein. From this tunnel we obtained some fine specimens of sponge-like asbestos—the finest we ever saw. The San Jose claim promises well, and we believe will eventually prove a valuable mine. There is also considerable placer mining in this vicinity.

[To be continued.]

CAUSE OF DAMAGED LIVERS.—Speaking of beer drawn through lead pipes, a correspondent of the Chicago *Medical Examiner* says: "It is a sad commentary on this beverage that it is largely chargeable with the damaged livers met with in almost every subject examined in the dead-houses connected with these hospitals."

(Written for the Mining and Scientific Press.)

The North Almaden Quicksilver Mine.

This recently discovered quicksilver mine is located in Santa Clara county, about eight miles southeast of San Jose, on the Farnsworth ranch, and nine miles north of the New Almaden. The location is beautifully situated, and well adapted to mining purposes. At the foot of the mountain, and in close proximity to the mine, Silver creek is to be found, abundantly supplied with a never-failing stream of pure water, and shaded from the sun's rays by the female laurel entwined with the "brave old oak."

The mountain, from summit to base, is promiscuously covered with cinnabar rock, producing from two and a-half to thirty per cent. metal, and indications show this kind of rock to exist in almost an unlimited quantity. Enough has already been discovered to guarantee the erection of furnaces and a spirited development of the mine. There are twelve hands now employed, with a practical miner to superintend operations. Everything appears to be working in the right direction, and the prospects of the mine are daily improving.

At the eastern part of the mine a shallow tunnel is being run through the ledge. The object of this tunnel is to reach the hanging wall of the lode and ascertain its underlie before commencing their permanent tunnels and shafts. This is as it should be, as there is no doubt it will be the means of saving time and expenditure. The tunnel has been driven some twenty feet, and the cutting through of the ledge looks truly encouraging. Though scarcely over twelve feet from the surface, the miners are, nevertheless, taking out a large quantity of good average metal.

From this point of operation some distance, to the west, there is a party employed in an open cutting. Here is a point for the study of geologists. In this cutting there is at least eight feet of black clay lying on the ledge. Out of curiosity, I had a wheelbarrow full taken to the brook and washed, when, not a little to my surprise, I found it contained from six to seven per cent. metal [minerals?] How is it that small stones of metal [mineral?] became so promiscuously diffused through this black earthy matter? Can it be what is too frequently termed *float metal?* or is it possible that they were thrown up into it by volcanic action? I would be glad to see the views of some of your able correspondents on the subject. This clay I speak of is as nature formed it, and is a most excellent material to make *adobes* with.

The ledge in this place has a somewhat different character from that of the portion driven through in the tunnel. The rock in the tunnel is of a dark brown color, coated with lime, and, I would suppose, *fumes* of quicksilver; whilst the ledge rock in the open cutting possesses every attribute to be found in the rock at the New Almaden mine, to a certain depth. In fact, I find indications here precisely the same as I have seen them in other quicksilver mines, and with much greater facilities for taking out the metal.

The mine is as yet in its infancy; nevertheless they are taking out large quantities of quicksilver, and I predict that in six months from this time quicksilver will be made for less than one-half the cost of any other quicksilver mine in the State of California. F.

REMARKS.—Accompanying the above, we received a very fine specimen of the ore taken from the "East Tunnel." We do not fully understand our correspondent's description of the "black clay" deposit, and its accompanying "metal." By "stones of metal," we are led to infer that the metalliferous substance may be a sulphuret of mercury, which, by their superior resistance to abrasion, have remained entire, while the more softer material which has surrounded them has been reduced to clay, colored, perhaps, by manganese, or by some vegetable substance. However that may be, the clay must be a secondary deposit, and not an original formation, as our correspondent appears to intimate. Perhaps at some future time we may have the pleasure of visiting the locality, and answering, more definitely, the questions of our correspondent.

A New York artist has painted a picture entitled "*Ecce Homo Honestus.*" It is Abraham Lincoln, with Diogenes, represented as dropping his famous lantern, in the background—the object of his long search of twenty centuries accomplished.

FORTY-THREE Post Offices in New York are engineered by females.

(Written for the Mining and Scientific Press.)

Jottings from the Mountains.

BY AN OCCASIONAL CORRESPONDENT.

THE WEATHER.

Byron says there is nothing so difficult as finding a beginning for a story, unless it be the ending; and it now occurs to me, that one rarely reads a letter of correspondence, these modern days, that does not open or close with remarks touching the vicissitudes of clime and climate. But I shall not bore you on this head. I wish simply to impress upon your mind that this is July, with a sky of brass over head and the atmosphere permeated with fine dust. Moving about the country by public conveyance, under such circumstances, is by no means pleasant, even when journeying holds out the inducements of profit.

HIBERNATES.

For the reasons assigned, since I came into the mountains—although it was my full determination to make a thorough exploration of the mines, particularly of this locality—I have remained, as the coon said, "treed, and kept my hole."

These contemplated explanations were not to be undertaken with any expectation of enlightening the world, but only to gratify the curiosity of a greenhorn in mining matters, who holds to the axiom that all knowledge is profitable, and that there is special pertinency in becoming familiar with such objects of interest as are paramount in the section of country where one sojourns, whether it be for a protracted or brief period.

A GENERAL LAMENTATION.

"Hard times" is in every mouth, and discouragement pervades all communities. And why? Because the harvest is abundant, but the reapers are few. The mines are numerous and teeming with the wealth of hidden millions; yet there is no capital to develop them. California is no longer hyperion in the mining constellation. Not that her mines are giving out; on the contrary, the country has not as yet been half prospected. But the honors are shared with her by regions in which new discoveries have been made. Her population, with that love of excitement which has always rendered the early explorers of the State uneasy, even while their prospects were the most encouraging, have repaired to Idaho, Reese River, Washoe, Esmeralda, Colorado, and other remote regions, and carried with them a great deal of the capital which otherwise might have been used here towards the development of the State's resources, and the enriching of those who possessed it.

CASES IN POINT.

Placerville, it is well known, is in the very center of the richest quartz mining region of California, if not of the world. The gold-bearing belt comes down from the region of Grass Valley, in Nevada county, and embracing El Dorado county, sweeps as far south as Tulare, and contains mines which have already yielded amounts of the precious metals that would be deemed fabulous, if we did not have our yearly shipments to point to in proof; most of the gold from which, since the placer diggings are almost a thing of the past, has been exhumed from the deep bowels of our mother earth.

MINES WITH REPUTATION.

If the reader knows anything about El Dorado county, he has heard of the Manning, Harmon, Haywards, Hinchman, Union, New York, Pacific, El Dorado, and other almost equally famous ledges, which have given character to the county, and must hereafter prove the source of its permanent wealth.

TAKE ONE OF THESE AS A SAMPLE.

One of these mines, and only one, thus far, I have visited, explored, and inquired about. Indulge me, therefore, while I speak of it. I allude to the Harmon. This mine is located on the west side of "Quartz Mountain," about a mile north of Placerville, nearly on the line of the Pacific Railroad. It has been opened for several years, although I am informed only worked with success two years of that time. A tunnel has been put in 350 feet, and a shaft sunk eighty feet. A fifteen-stamp mill, with an engine of twenty-horse power, all in complete working order, are on the ground. There is also a large and well built boarding house for the workmen. Between $15,000 and $16,000 have been expended on these improvements, and $29,000 have been taken out of the mine, sufficient to justify the trustees in declaring two different dividends. The ledge is twelve feet wide, and the rock which is taken from it has thus far averaged about $40 to the ton. I have several pieces before me, with numerous particles of gold visible to the naked eye. The stock of the Harmon has been quoted in the market as high as $50 per foot, and is perhaps worth five times that much to-day.

WHY NOT?

Why will the stock of such a mine not *bring* a price in some degree commensurate with its value? The answer involves just such a state of affairs as I have spoken of. There is not capital enough in the country to meet the demands of one-tenth part of the mills and ledges. This mine, among others, must lie idle until there is money in the country to work it.

ITS PRESENT CONDITION.

The rock of the mine grew richer as the shaft went down. The water line was struck at a depth of forty feet. The volume increased as the shaft descended, until it was found impossible to clear the mine without steam-power. The company had, besides, managed the affairs of the mill and mine badly. Mr. J. W. Epley, who was a large owner, seeing how things was going, and knowing the mine to be immensely valuable, in self-defense purchased a chief part of its stock; but by doing so, expended so much of his available means as to be unable to proceed with the work at the present time.

LET US HAVE CAPITAL.

If this mine—and I name it only because it serves as an example—with its splendid gold-studded rock, is compelled to remain unworked for the want of a few thousand dollars, what show is there for those ledges which possess no such advantages as mills, in good working order, boarding houses, fine roads, nor lie in proximity to populous towns and cities?

We *must* have more capital. Mr. Editor, appeal to the millionaires of the East who have realized such vast fortunes in oil, and see if you cannot induce them to come up into this rich mineral region and invest.

HOMER.

Placerville, July 28th, 1865.

NEW PROCESSES.

The latest new "process" which we have noticed, is termed the "Wilson Process." It is described in the New York *Stockholder* as follows:

The process consists of a series of fire-clay retorts, cylindrical in shape, and arranged one above the other, and all inclosed and made to revolve in a large furnace, the fire being applied below, the heat and flame passing up and around the cylinders. These cylinders are heated to a cherry red, when the sulphurets are introduced into the top one, which is so constructed as to automatically discharge into the one next below, and so on through the series, the last discharging into a water-bath. During the process a current of air and steam combined is caused to constantly intermingle with the ore, causing a more perfect oxydation. The construction and operation are such that no loss can ensue from vaporization or currents of air, as in the ordinary reverberatory-hearth. The whole arrangement is compact, and not very expensive. Crushing and triturating machines accompany desulphurizing machines when required.

Another method, brought forward by an experimenter in Newark, pulverizes the ore and submits it directly to nitric and muriatic acids, as being the solvents of gold. All the gold that is touched by them, and all the other base metals, are readily dissolved. The solution is then poured off, and the various metals in it are precipitated by different chemical substances. A portion of the process is kept secret by the discoverer; but the main point is the dissolving the gold in *aqua regia*. The process has the merit of dispensing with quicksilver, but at the expense of large quantities of costly acids.

TRIUMPH OF YANKEE GENIUS.—At a recent trial of breach loading guns at St. Petersburg, Russia, in presence of a deputation of high officials, after the rejection of the English made guns of Clay, Whitworth and Armstrong patterns, and a trial between Prussia and Berlin guns, and one invented by an American named Broadwell, the latter was adopted as preferable and more perfect than any of the others. The London *Mechanics Magazine* urges the English Government to alter the Armstrong gun to Broadwell's pattern.

THE cessation of hostilities allows Government to save thirty-five millions of dollars per annum in the single item of coal.

SUGAR FROM ASPEN.—At Salt Lake, sugar is made from boiling the sap of the quaking asp. The process is similar to that of making sugar from the sap of the maple.

SALES OF THE WEEK

Saturday, July 29.

16 shs Yellow Jacket at $1150 per foot.
1 sh Yellow Jacket at 1125 per foot, s 30.
2 shs Potosi at 490 per foot.
102 shs Potosi at 500 per foot.
15 shs Potosi at 500 per foot, s 3.
4 shs Potosi at 504 per foot.
5 shs Potosi at 502½ per foot.
22 shs Potosi at 503 per foot.
10 shs Potosi at 505 per foot, b 3.
34 shs Potosi at 505 per foot.
10 shs Potosi at 510 per foot, b 10.
20 shs Potosi at 505 per foot, s 3.
10 shs Potosi at 505 per foot, r w.
60 shs Chollar at 525 per foot,
4 shs Chollar at 522½ per foot.
30 shs Chollar at 520 per foot, s 3.
20 shs Chollar at 520 per foot.
20 shs Chollar at 515 per foot, s 3.
12 shs Crown Point at 900 per foot.
8 shs Crown Point at 925 per share.
64 shs Crown Point at 950 per foot.
4 shs Crown Point at 954 per foot.
4 sh Crown Poiat at 955 per foot.
5 shs Belcher at 800 per foot.
18 shs Belcher at 805 per foot.
5 shs Overmsn at 250 per foot.
7 shs Uncle Sam at 275 per foot.
2 shs Uncle Sam at 280 per foot.
20 shs Daney at 17 per foot.
6 shs Gould & Curry at 1500 per foot.
4 shs Gould & Curry at 1500 per foot, s 30.
30 shs Sierra Nevada at 27½ per share.
10 shs Sierra Nevada at 28 per share.
57 shs Sierra Nevada at 29 per share.
30 shs Sierra Nevada at 31 per share.
40 shs Sierra Nevada at 30¼ per share.
4 shs Imperial at 220 per share.
11 shs Imperial at 229 per share.
2 shs Confidence at 167½ per share.
3 shs Confidence at 170 per share.
12 shs Confidence at 165 per share, s 3.
10 shs Burnlag Moscow at 31 per share, s 10.
23 shs Burning Moscow at 31 per shsre, s 3
10 shs N. American, Ex Sam, at 41, s 3.
10 shs N. Americsn, Ex Sam, at 41¼ per sh.
40 shs N. Americsn, Ex Sam, at 42 per sh.
10 shs Bullion at 155 per share.
2 shs Bullion at 157½ per share.
10 shs Caledonia Tunnel at 6½ per sh, s 3.
3 shs Cal. Steam Nav. Co. at 76 per cent.

No afternoon session.

Amount of sales.....$152,850 00

Monday, July 31.

4 shs Chellar at 530 per foot.
20 shs Chollsr at 520 per foot.
20 shs Chollar at 517½ per foot.
4 shs Chollar at 515 per foot.
18 shs Potosi at 520 per foot.
10 shs Potosi at 525 per toot.
12 shs Potosi at 520 per foot, s 3.
6 shs Potosi at 521 per toot.
10 shs Potosi at 515 per toot, r w.
5 shs Potosi at 515 per foot.
10 shs Potosi at 515 per foot, s 10.
10 shs Potosi at 515 per foot, s 3.
4 shs Yellow Jacket at 1150 per foot.
4 shs Yellow Jacket at 1175 per foot.
1 sh Yellow Jacket at 1175 per foot, s 3.
3 shs Yellow Jacket at 1120 per foot.
1 sh Yellow Jacket at 1190 per foot.
15 shs Yellow Jacket at 1200 per foot, s 3.
5 shs Yellow Jacket at 1210 per foot.
2 shs Yellow Jacket at 1185 per foot.
1 sh Yellow Jacket at 1180 per foot.
10 shs Gould & Curry at 1500 per foot.
12 shs Ophir at 430 per foot.
60 shs Ophir at 440 per foot.
4 shs Crown Point at 930 per foot.
4 shs Crown Point at 940 per foot.
8 shs Crowa Poiat at 940 per foot, s 3.
8 shs Minerva, G. H., at 250 per foot.
3 shs Overman at 320 per share.
1 sh Uncle Sam at 320 per foot.
3 shs Uncle Sam at 317½ per foot.
1 sh Uncio Sam at 310 per foot.
1 sh Uncle Sam at 315 per foot.
3 shs Belcher at 810 per foot.
3 shs Belcher at 820 per toot.
25 shs Imperial at 230 per share.
96 shs Sierra Nevada at 39 per share.
30 shs Sierra Nevada at 40 per share.
35 shs Sierra Nevada at 42½ per share.
20 shs Sierra Nevada at 42 per share.
10 shs Sierra Nevada at 38 per share.
5 shs Sierra Nevada at 37 per share.
5 shs Daney at 17½ per share.
10 shs Caledonia Tunnel at 7 per share.
3 shs N. American, Ex Sam. at 41 per sh.
33 shs N. American, Ex Sam, at 42 per sh.
15 shs Bullion at 155 per share.
5 shs Bullion at 155 per share, s 3.
5 shs Confidence at 163½ per share, s 3.
3 shs Confidence at 160 per share.
10 shs Burning Moscow at 31 per share.

AFTERNOON SESSION.

8 shs Crown Point at 930 per foot.
4 shs Crowa Point at 925 per foot, s 3.
12 shs Potosi at 500 per foot.
16 shs Potosi at 495 per foot.
20 shs Potosi at 490 per foot, s 30.
14 shs Potosi at 492½ per toot,
6 shs Potosi at 490 per foot.
1 sh Uncle Sam at 307½ per foot.
1 sh Uncle Sam at 305 per foot.
2 shs Uncle Sam at 300 per foot.
5 shs Uncle Sam at 300 per foot, s 3.
1 sh Uncle Sam at 302½ per foot.
2 shs Uncle Sam at 300 per foot.
1 sh Yellow Jacket at 1175 per foot.
2 shs Yellow Jacket at 1175 per foot, s 3.
2 shs Yellow Jacket at 1160 per foot, s 30.
1 sh Yellow Jacket at 1165 per foot.
1 sh Yellow Jacket at 1185 per foot, b 3.
3 shs Yellow Jacket at 1165 per foot, s 3.
5 shs Sierra Nevada at 38¾ per share.
40 shs Sierra Nevada at 39 per share.
30 shs Sierra Nevada at 40 per share.
10 shs Sierra Nevada at 41 per share.
30 shs Sierra Nevada at 35 per share.
50 shs Sierra Nevada at 34½ per share,
19 shs Imperial at 230 per share.
5 shs Imperial at 229 per share.
4 shs Imperial at 228 per share.
10 shs Imperial at 227 per share.
10 shs Burning Moscow at 31 per share.
10 shs Lady Bryan at 5 per share.

Amount of sales.....$167,500 00

Tuesday, August 1.

12 shs Gould & Curry at 1500 per foot.
2 shs Hale & Norcross at 525 per foot, r w.
20 shs Minerva, O. H., at 180 per ft, ss. sup
7 shs Yellow Jacket at 1200 per foot.
10 shs Yellow Jacket at 1190 per foot.
2 shs Yellow Jacket at 1170 per foot, s 30.
3 shs Yellow Jacket at 1200 per foot, b 3.
4 shs Yellow Jacket at 1205 per foot.
5 shs Yellow Jacket at 1210 per foot, b 3.
4 shs Yellow Jacket at 1200 per foot, s 30.
2 shs Yellow Jacket at 1200 per foot, s 5.
1 sh Yellow Jacket at 1210 per foot.
5 shs Uncle Sam at 270 per foot.
1 sh Uncle Sam at 265 per foot.
10 shs Uncle Sam at 260 per foot.
1 sh Uncle Sam at 255 per foot.
10 shs Uncle Sam at 250 per foot.
7 shs Uncle Sam at 245 per foot.
5 shs Uncle Sam at 245 per foot, b 3.
5 shs Uncle Sam at 240 per foot, s 3.
5 shs Uncle Sam at 235 per foot.
5 shs Uncle Sam at 205 per share, s 30.
10 shs Uncle Sam at 200 per foot, s 30.
5 shs Uncle Sam at 200 per foot.
8 shs Uncle Sam at 200 per foot, b 3.
5 shs Uncle Sam at 190 per foot, s 30.
10 shs Uncle Sam at 183 per foot, s 30.
29 shs Uncle Sam at 180 per foot.
24 shs Uncle Sam at 180 per foot, b 3.
15 shs Uncle Sam at 180 per foot, s 5.
5 shs Uncle Sam at 185 per foot.
4 shs Crown Point at 940 per foot.
4 shs Crown Point at 905 per foot, s 3.
4 shs Crown Point at 940 per foot, b3.
24 shs Ophir at 425 per foot.
30 shs Imperial at 227 per share.
6 shs Imperial at 228 per share.
30 shs Imperial at 225 per share, s 30.
10 shs Imperial at 227½ per share.
5 shs Imperial at 226 per share, r w
10 shs Imperial at 223 per share, s 30.
10 shs Bullion at 165 per share,
15 shs Bullion at 160 per share.
10 shs N. American, Ex Sam, at 37½ per sh.
5 shs N. American, Ex Sam, at 35 per sh.
25 shs Burning Moscow at 30 per share.
5 shs Burning Moscow at 29 per share.
15 shs Caledonia Tunnel at 7¼ per share.
20 shs Lady Bryan at 5 per share.
15 Golden Age & Empire at 5¾ per share.
6 shs Cole (Va) at 10 per share.
$ 5,000 U. S 7-10 Bonds at 74¾ per cent.
$ 5,000 Legal Tender Notes at 74¾ per cent.
$ 5,000 Legal Tender Notes at 74 per cent.

AFTERNOON SESSION.

1 shs Uncle Sam at 205 per foot.
18 shs Uncle Sam at 170 per foot, s 3.
33 shs Uncle Sam at 200 per foot.
7 shs Uncle Sam at 192½ per share.
25 shs Uncle Sam at 190 per foot.
12 shs Uncle Sam at 200 per foot, b 3.
93 shs Uncle Sam at 195 per foot.
2 shs Uncle Sam at 190 per foot.
5 shs Overman at 200 per foot.
12 shs Crown Point at 900 per foot, s 3.
3 shs Belcher at 810 per foot.
3 shs Belcher at 805 per foot.
1 sh Yellow Jacket at 1205 per foot.
1 sh Yellow Jacket at 1210 per foot.
2 shs Yellow Jacket at 1215 per foot.
1 sh Yellow Jacket at 1220 per foot, b 3.
4 shs Chollar at 480 per foot.
44 shs Chollar at 600 per foot.
12 shs Ophir at 425 per foot.
24 shs Ophir at 415 per foot, s 30.
32 shs Minerva, G. H., at 165 per foot.
10 shs Potosi at 480 per foot.
16 shs Imperial at 227 per share.
10 shs Imperial at 227 per share, r w.
10 shs Sierra Nevada at 26 per share.
40 shs Sierra Nevada at 24 per share.
30 shs Sierra Nevada at 23 per share.
70 shs Sierra Nevada at 22 per share.
10 shs Bullion at 175 per share, b 10.
10 shs Bullion at 175 per share.
20 shs Burning Moscow at 29 per share.
20 shs Buraing Moscow at 29½ per share.
20 shs Nevada, J. G., at 15 per sbare.

Amount of sales.....$170,825 00

Wednesday, August 2.

5 shs Uncle Sam at 190 per foot
10 shs Uncle Sam at 200 per foot.
5 shs Uncle Sam at 195 per foot.
5 shs Uncle Sam at 208½ per foot.
3 shs Uncle Sam at 207½ per foot.
49 shs Uncle Sam at 210 per foot.
12 shs Uncle Sam at 215 per foot.
2 shs Uncle Sam at 222½ per foot.
4 shs Uncle Sam at 220 per foot.
2 shs Uncle Sam at 230 per foot.
58 shs Uncle Sam at 240 per foot.
5 shs Uncle Sam at 235 per foot.
1 sh Uncle Sam at 232½ per foot.
5 shs Overman at 210 per foot.
1 sh Yellow Jacket at 1220 per foot, s 3.
1 sh Yellow Jacket at 1240 per foot, s 3.
8 shs Yellow Jacket at 1250 per foot.
1 sh Yellow Jacket at 1275 per foot.
1 sh Yellow Jacket at 1290 per foot.
2 shs Yellow Jacket at 1300 per foot.
1 sh Yellow Jacket at 1310 per foot.
1 sh Yellow Jacket at 1325 per foot.
1 sh Yellow Jacket at 1335 per foot.
1 sh Yellow Jacket at 1335 per foot, b 3.
1 sh Yellow Jacket at 1340 per foot, b 5.
1 sh Yellow Jacket at 1290, s 30.
1 sh Yellow Jacket at 1340 per foot, b 3.
4 shs Crown Point at 940 per foot.
16 shs Crown Point at 945 per foot.
4 shs Crown Point at 950 per foot, r w.
12 shs Crown Point at 950 per foot, b 3.
4 shs Crown Point at 950 per foot.
6 shs Potosi at 470 per foot.
32 shs Minerva at 170 per foot, ass't unpaid.
20 shs Caledonia Tunnel at 8 per share.
10 shs Caledonia Tunnel at 8¼ per share.
2 shs Cal Steam Nav Co at 74½ per cent.
8 shs Cal. Steam Nav. Co. at 74½ p ct, r w.
2 shs Cal. Steam Nav. Co. at 75 per ct, r w.
20 shs Nevada (J. G.) at 15 per share.
12 shs Confidence at 150 per share.
17 shs Confidence at 150 per share.
10 shs Bullion at 165 per share.
20 shs Wide West at 5½ per share.
20 shs Sierra Nevada at 22 per share.
25 shs Sierra Nevada at 21 per share.
20 shs Sierra Nevada at 20 per share.
30 shs Imperial at 223 per share.
$ 5,000 Legal Tender Notes at 73¾ per cent.

AFTERNOON SESSION.

5 shs Uncle Sam at 235 per foot.
5 shs Uncle Sam at 235 per foot, s 3.
35 shs Uncle Sam at 240 per foot.
75 shs Uncle Sam at 242 per foot.
29 shs Uncle Sam at 244 per foot.
10 shs Uncle Sam at 240 per foot, s 3.
5 shs Uncle Sam at 241 per foot.
4 shs Gould & Curry at 1530 per foot.
8 shs Crown Point at 955 per foot.
8 shs Crown Point at 920 per foot.
4 shs Crown Point at 955 per foot, r w.
2 shs Yellow Jacket at 1310 per foot
9 shs Belcher at 825 per foot.
3 shs Belcher at 835 per foot.
12 shs Chollar at 475 per foot.
12 shs Potosi at 460 per foot, s 3.
24 shs Potosi at 460 per foot.
4 shs Potosi at 448 per foot.
3 shs Cal. Steam Nav. Co at 74½ per ct.
10 shs Burning Moscow at 29¾ per share.
10 shs Burning Moscow at 29½ per sh, s 3.
65 shs Burning Moscow at 30 per sh, r w.
30 shs Burning Moscow at 30 per share.
15 shs Burning Moscow at 30½ per share.
5 shs Pacific Ins. Fund at 150 per share.
15 shs Bullion, O H, at 160 per share, s 3.
10 shs Imperial at 227 per share.
10 shs Imperial at 229 per share.
9 shs Imperial at 230 per share.
10 shs Imperial at 230 per share, r w.
20 shs Imperial at 229½ per share.
24 shs Confidence at 121 per share.
56 shs Confidence at 120 per share.
15 shs Sierra Nevada at 20 per share.
78 shs N. American, Ex Sam, at 38 per sh.

Amount of sales.....$162,770 00

Thursday, August 3.

1 sh Uncle Sam at 243 per foot.
27 shs Uncle Sam at 240 per foot.
5 shs Uncle Sam at 230 per foot.
10 shs Uncle Sam at 225 per foot.
2 shs Uncle Sam at 220 per foot.
5 shs Uncle Sam at 230 per foot.
5 shs Uncle Sam at 235 per foot.
1 sh Uncle Sam at 238 per foot.
18 shs Uncle Sam at 237½ per foot.
14 shs Potosi at 450 per foot.
15 shs Potosi at 446 per foot.
8 shs Potosi at 445 per foot.
10 shs Potosi at 445 per foot, r w.
5 shs Potosi at 442½ per foot, r w.
10 shs Potosi at 440 per foot.
8 shs Chollar at 460 per foot.
8 shs Chollar at 445 per foot
8 shs Chollar at 452½ per foot.
1 sh Yellow Jacket at 1310 per foot.
1 sh Yellow Jacket at 1320 per foot.
15 shs Crown Point at 960 per foot.
24 shs Ophir at 425 per foot.
32 shs Ophir at 420 per foot.
36 shs Ophir at 415 per foot, s 30.
12 shs Ophir at 430 per foot.
20 shs De Soto at 10 per share, b 30.
5 shs Imperial at 225 per share, s 3.
5 shs Imperial at 222 per share.
7 shs Imperial at 220 per share.
3 shs Imperial at 224 per share.
60 shs Confidence at 120 per share.
96 shs Confidence at 120 per share, s 5.
9 shs Confidence at 125 per share.
5 shs Confidence at 122½ per share, s 5.
5 shs Bullion at 165 per share.
20 shs Burning Moscow at 31 per share.
30 shs Burning Moscow at 31½ per share.
42 shs N. American, Ex Sam, at 37½ per sh.
$ 5,000 Legal Tender Notes at 73¾ per cent.

AFTERNOON SESSION.

4 shs Crown Point at 955 per foot.
1 sh Yellow Jacket at 1250 per foot.
3 shs Yellow Jacket at 1235 per foot.
9 shs Yellow Jacket at 12 5 per foot, s 3.
4 shs Gould & Curry at 1450 per foot, s 30.
8 shs Gonld & Curry at 1475 per foot, s 30.
14 shs Potosi at 442 per foot.
10 shs Potosi at 445 per foot, b 10.
122 shs Potosi at 440 per foot.
4 shs Potosi at 440 per foot, Monday.
10 shs Potosi at 440 per foot s 3.
20 shs Potosi at 440 per foot, s 10.
24 shs Ophir at 425 per foot, s 3.
20 shs Chollar at 447½ per foot.
15 shs Ophir at 450 per foot.
12 shs Ophir at 462½ per foot.
16 shs Ophir at 455 per foot.
5 shs Uncle Sam at 227½ per foot, r w.
7 shs Uncle Sam at 235 per foot.
3 shs Uncle Sam at 235 per foot, s 3.
7 shs Uncle Sam at 237 per foot.
2 shs Uncle Sam at 238 per foot.
12 shs Confidence at 130 per share.
3 shs Confidence at 135 per share.
10 shs N. American, Ex Sam, at 38 per sh.
20 shs Burning Moscow at 31 per share.
10 shs Imperial at 217 per foot. s 3.
2 shs Imperial at 225 per share.
5 shs Cal S Nav Co at 75 per cent.

Amount of sales.....$148,635 00

Friday, August 4.

7 shs Yellow Jacket at 1230 per foot.
1 sh Yellow Jacket at 1180 per foot, s 30.
2 shs Yellow Jacket at 1215@1220 per foot.
10 shs Caledonia Tunnel at 9½ per share.
4 shs Baltic at 10 per share.
43 shs Ophir at 425 per foot.
24 shs Ophir at 4.0 per foot, s 30.
40 shs Chollar at 450 per foot, s 30.
28 shs Chollar at 455@454 per foot.
15 shs Imperial at 230 per share.
5 shs Imperial at 225 per share, b 30.
90 shs Sierra Nevada at 20 per share.
10 shs N. American, Ex Sam, at 30 per sh.
7 shs Burning Moscow at 31 per share.
38 shs Potosi at 456@434 per foot.
18 shs Potosi at 43½@440 per foot.
50 shs Potosi at 450@452½ per foot, b 30.
15 shs Potosi at 444@452½ per foot.
5 shs Belcher at 825 per foot.
5 shs Overman at 240 per foot.
5 shs Uncie Sam at 237½ per foot.
$ 2,700 Legal Tender Notes at 74 per cent.

AFTERNOON SESSION.

65 shs Sierra Nevada at 22@22 per share.
90 shs Sierra Nevada at 24@23 per share.
12 shs Belcher at 830@835 per foot.
3 shs Confidence at 135 per share.
4 shs Chollar at 470 per foot.
28 shs Chollar at 490@495 per foot.
30 shs N. American, Ex Sam, at 39 per sh.
34 shs Potosi at 450@455 per foot.
22 shs Potosi at 457@462 per foot.
65 shs Uncle Sam at 240@255 per share.
160 shs Uncle Sam at 260@267 per share.
5 shs Uacle Sam at 270 per share.
5 shs Uncle Sam at 265 per share.
20 shs Lady Bryan at 10 per share.

Amount of sales.....$104,230 00

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, August 5th, 1865.

The condition of the money market is substantially unchanged Continued ease prevails, and first-class indorsed business paper can be placed at 1¼ ₱ cent. per month in bank. Other descriptions of security are taken at former rates—1½ ₱ cent. per month. In the open market, transactions are made witbin a range of 1½@2½₱ cent. It is estimated that the banks and bankers of this city, at this time. hold on deposit at least $8,000,000 in available cash means, and have, probably nearly as large an amount under discount to their customers.

Receipts of treasure from the interior and north coast for the month of July, amounted in the aggregate to $4,600,000, and since Saturday last they have exceeded $1,000,000.

Gold Bars met with a better demand for shipment this week, and advanced to 835@840. Silver bas been in less favor, and current rates are lower than for some time past; round lots are quotable at abont ½ ₱ cent. discount.

Legal Tender Notes remain inactive, and trifling sales were made at the Board within the range of 74⅛@73⅞c, closing at about 73¾c bid, 74c asked. We have no later telegraphic advices from the East.

The Share Market has been characterized by a fair degree of activity this week. Some leading stocks are in better request, and have advanced under the receipt of more favorable advices as to the character of present developments, and a number of other stocks of perhaps less certain value, have fluctuated materially, and are lower than at the close of last week.

Gould & Curry advanced from $1,500 to $1,530, then sold $1,500@ $1.475, seller 30, and closed at $1,530 asked. The yield of this mine in bullion has shown a slight falling off recently, but the present financial condition of the company is said to be as favorable as it has been for three months past, and a dividend of $40 ₱ foot will be paid to-day, for the month of July.

Alpha has met with no sales since Saturday, and is held with some firmness at about $1,440. Work is still progressing upon the main shaft, and very efficient hoisting machinery is now being erected.

Yellow Jacket has been in better request, and 125 feet were dealt in, opening at $1,125, seller 30, and $1,150 cash, steadily advancing to $1,340, receding to $1,225, and selling yesterday at $1,210@1,220. We are authorized to say that an assessment is not deemed necessary by the officers of this company, and that their immediate liabilities have been reduced $50,000 during the past thirty days. The improvements to the Morgan mill will, it is thought, be completed in ten days, and its reduction capacity then increased to 80 tons per day. The product of the mine has amounted to some $150@160 tons of ore, averaging $35@40 per ton, for several weeks past, and the entire yield of bullion for the month of July exceeded $160,000. The new body of ore, found in drifting west from the 360-feet level, is said to promise well, and more favorable indications have been met with in running south. The winze sunk from the same level to a depth of 40 feet, has penetrated a mass of good ore, and it is supposed that this body will be found to continue to the new level below, when the latter is opened at a depth of 440 feet.

Savage continues dull and inactive, but is rather more firmly held at $1,300. The product of this mine amounts to about 70 tons of ore per day, averaging $32@33 per ton.

Crown Point is in more favor, and 60 feet were sold, opening at $900, advancing to $955, receding to $910, rallying to $970, dropping to $955, and closing at $900 bid. The main shaft is now down some 305 feet, and drifting will begin at an early day from the new level at a depth of 315 feet. Work from the incline in the west stratum continues to disclose a body of good ore some 12 feet wide. A late crushing yielded $62 per ton.

Belcher has been steadily maintained, advancing from $800 to $820, dropping to $805, rallying to $835, and selling yesterday at $830@835. The main shaft has attained a depth of over 500 feet, and two new levels will soon be opened.

Chollar declined from $525 to $515, rallied to $530, receded to $452½, then sold at $455, and was dealt in yesterday at $455@490. In all, some 185 feet changed hands.

Potosi advanced from $490 to $525, steadily declined to $440, and closed yesterday at $457@462, within which range 260 feet were sold. The joint product of these two mines now exceeds 200 tons per day, and some half-dozen mills have been employed. The body of ore found in running west from the lowest level of the Potosi, is said to be 12 feet in width and 30 feet long. The south Chollar mine is producing 50@60 tons of ore per day, and a new deposit has been disclosed in stopeing up from the old Potosi tunnel.

Ophir rose to $444, receded to $415, seller 30, rallied to $430, and was sold yesterday at $425@420. Hale & Norcross met with trifling sales at $525@530, and is now held at $600. Empire Mill & Mining Company is offered at $475 ₱ share. A dividend of $20 per share has been declared, payable on the 10th inst.

Uncle Sam has been in less favor this week, advancing from $280 to $320, (assessment of $50 delinquent), rapidly declining to $180, rallying to $244, receding to $235, and changing hands yesterday at $235 @270. Overman rose from $250 to $320, fell to $200, and was held at the close at $270 A late crushing of 121 tons of ore at the Vivian mill yielded about $27 ₱ ton. Considerable ore is being taken from the 406-feet level, and also from the upper and lower levels.

Imperial opened at $230, declined to $226, rallied to $230, dropped to $220, and sold yesterday at $230@235. The receipts of this company for July exceed $115,000, being the largest monthly yield in the history of the mine, and $45,000 in excess of last month. The ore reduced in July averaged about $50 per ton. The result of the suit of Lindauer & Hirschman *vs.* this company, requires the dam on the Carson at the Rock Point Mill to be lowered a few inches, but it is claimed that this will not affect the full reduction capacity of the mill with the aid of their present steam power. A dividend for July will probably be declared to-day.

Confidence is in much less request, and some 300 shares were dealt in, declining from $170 to $120, rallying to $135, and selling yesterday at $135. The company having drifted a long distance to the east at a depth of 500 feet without finding ore, now propose to run south to meet a continuation of the deposit found in the 375-feet level above.

Minerva has been sold at $165@170, assessment unpaid, and is now offered at $175. The recent compromise with the Bullion company gives the Minerva 400 ont of 900 feet of ground in the southern portion of the mine, and a new incorporation is to be formed.

Bullion rose from $155 to $165, and closed at about $165. This company will now have, in all, some 1300 feet of ground.

Burning Moscow has been moderately dealt in within a range of $37@29, closing at $31. North American fell from $43 to $35, rose to $38 and closes at $37. An assessment of $10 per share has been levied on this stock. Sierra Nevada rose from $25 to $42½, fell to $20, and was sold at the close at $23.

Golden Rule, Tuolumne county, is in some favor at $10 bid, $15 asked. The company are said to be out of debt, own a small mill of 6 stamps, and have a considerable surplus in their treasury. The yield of the mine for the past two months exceeded $8,000. A first dividend of 50c. ₱ share on 3000 shares was paid in July.

The aggregate recorded sales of stocks, since Saturday last, amounted to $868,810.

MECHANICS' FAIR.

DAILY PRESS.

The Proprietors of the MINING AND SCIENTIFIC PRESS having been granted the privilege of printing the DAILY PRESS at the Pavilion, during the approaching Exhibition, are making complete arrangements to publish a full and faithful record of the Grand Exhibition, and will present gratuitously to all visitors and exhibitors the LARGEST, most ATTRACTIVE and VALUABLE paper ever issued at a public fair.

Its Free and Extensive Circulation will render it a peculiarly desirable journal for advertising. From SEVEN to EIGHT THOUSAND individuals visited the exhibition last season in a single day and evening.

Our printing press, in active operation, rapidly throwing off an interesting sheet into the very hands of the anxious throng, presents an attractive scene, affording one of the most novel and effective modes of advertising ever offered through the columns of a newspaper. Many persons being eye-witnesses to the printing of the paper, preserve copies as reminiscences of their visit to the Fair, while others procure bound volumes to be retained as a permanent record of the Exhibition, giving a further benefit to advertisers in addition to its wide circulation.

Those wishing to secure space for advertising in the MECHANICS' FAIR DAILY PRESS, will do well to make early application to the proprietors or their agents.

Payment will not be solicited until after the advertisements appear and are found to be according to contract or the satisfaction of the advertiser.

DEWEY & CO.,
Patent Agents, Publishers of the Mining and Scientific Press, and Job Printers, 505 Clay street, San Francisco.

Notices of the Press.

Following are a few of the select compliments paid the first volume of the DAILY FAIR PRESS, last season:

THE SCIENTIFIC PRESS proprietors strike off and give away thousands of their little sheet, entitled THE MECHANICS' FAIR DAILY PRESS. The second issue of this paper, published last night, gave the multitude some intelligence of the Washoe disaster. There were great crowds all the evening about the telegraph and the presses, many of whom had their first sight at the practical working of these great motors of civilization.—[S. F. Evening Bulletin, Sept. 7, 1864.

SCIENTIFIC PRESS.—A printing office has been established at the Mechanics' Fair, and Messrs. Dewey & Co., the enterprising publishers of the MINING AND SCIENTIFIC PRESS, are issuing from it a handsome double-sheet daily, which is a credit to themselves, its editors, and to the Fair.—[S. F. Morning Call, Sept. 8, 1864.

THE MECHANICS' FAIR DAILY PRESS is the title of a very neat quarto paper published at the Industrial Fair Pavilion, by Dewey & Co., of the MINING AND SCIENTIFIC PRESS. It reflects great credit, as does the weekly, upon the enterprise and ability of the publishers. We want it regularly.—[Reese River Reveille.

Agent Wanted.

A good Canvassing Agent can secure permanent and remunerative employment by calling at the office of the MINING AND SCIENTIFIC PRESS, 505 Clay street.

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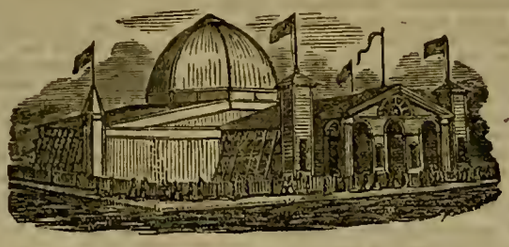
THE FIFTH INDUSTRIAL FAIR



OF THE MECHANICS' INSTITUTE OF SAN FRANCISCO,

To be Held in the Mechanics' Institute Pavilion in August, 1865.

The Mechanics' Institute having determined to hold their Fifth Industrial Fair during the coming season, the Executive Committee would respectfully invite all persons desirous of exhibiting Machines, Manufactures, Agricultural Implements, Horticultural Products, Minerals, Ores, and Works of Art, to make application immediately, in order that the proper space may be allotted them.

The Exhibition will be open to the public on Thursday, the 10th day of August, at 10 o'clock A. M.

The general management of the Fair is entrusted to an Executive Committee, consisting of the officers of the Institute.

No contracts or agreements will be recognized unless made by the authorized agents of this Committee.

A competent person will be in attendance at the Pavilion to receive and register all goods designed for exhibition, and will receipt therefor.

Contributions of Machinery and other articles that require long time to prepare for exhibition, will be received from the 15th of July to the 2d of August.

Articles for exhibition that require large space may be entered on or before the 20th day of July, and space will be allotted to the exhibitor on or before the 2d of August.

The Picture Galleries will be ready for the reception of Pictures, Embroideries, Wax and Fancy Work of all kinds, on the 1st of August, when space will be allotted.

The Committee will be prepared for the reception of Fruits, Flowers, Agricultural and Horticultural Productions, and design to have the tables so arranged that the best display possible can be made in this department, and every effort will be made and care taken to preserve their freshness, so that exhibitors may receive full credit for their productions. Those wishing space on these tables should engage it at an early day. There will be space reserved for additions in this department during the Fair.

The several transportation companies, as on former occasions, have, with commendable liberality, consented to transport articles intended exclusively for exhibition free of charge, and Messrs. Wells, Fargo & Co., in like manner, will take charge of them.

The Committee have the fullest confidence that the coming Fair will not only be the most complete and varied in its character, but will also be more attractive than any previous exhibition of this kind on this coast.

No pains or expense will be spared to give the contributors satisfactory opportunities in the spacious pavilion of the Institute for the display of their contributions, and to furnish whatever may be necessary to make the Fair an institution where those who frequent it may be both pleased and instructed.

All articles forwarded should be labeled "For the Industrial Exhibition," San Francisco.

All communications to be addressed to C. S. HIGGINS, Corresponding Secretary.

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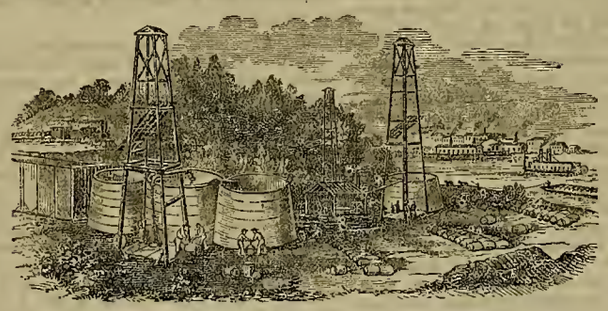

Mining and Scientific Press
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NOTICE.

The co-partnership heretofore existing between John Youngberg, Stephen H. Covert and William B. Gleason, is hereby dissolved by reason of the said Gleason and Covert having left for the East. This is to notify all persons that I shall pay no debts contracted by the said parties from an after this date. JOHN YOUNOBERG.
San Francisco, May 15th, 1865. 20v10-1m

FIFTH INDUSTRIAL FAIR.

Notice to Exhibitors.

The Pavilion is now open, and exhibitors should ente their articles intended for exhibition immediately, as there will be no postponement of the day of opening.

By order of the Executive Committe.
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Desires a Place in a Mine, Assay Office, or Chemical Laboratory.
Address O. H., office of this paper. 4v11-1m

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Will examine, survey and report upon mines, and coöperate with and advise concerning investments in mining property, or the machinery management and expenditures of mines.
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Mining Summary.

WASHOE.

It appears from the Gold Hill *News*, that quite a number of mills in Gold Cañon, which would otherwise have to remain idle, are now engaged in hauling away from the Gold Hill mines rock that has heretofore been considered waste, and are doing a very good business in crushing the same. It is said that thousands of tons of such rock have heretofore been hauled away to fill up old excavations, which, had it been suffered to remain at the mine, would now be worth much money, and have afforded employment to many mills and scores of idle hands. The suggestion is very properly made, that such rock should hereafter be carefully saved. Even if it could not be crushed during the present time of stagnation in the milling business, the time will soon come when, by the building of railroads, etc., milling expenses will be so much reduced as to render rock, now absolutely valueless, worth considerable money. The cost of assorting and piling away by itself such rock cannot be much, as it has to be disposed of in some manner, and in most cases can be as easily and cheaply stored by itself, as to be thrown in confusion with worthless dirt and barren rock, in places not easy of access.

The Yellow Jacket is said to be taking out very excellent rock. The report that an assessment of $200 per foot was about to be levied by this company, to pay its liabilities, is contradicted. It is now stated that the mine will easily pay off its debt from its income in a few months.

The Rock Island Company, through the aid of Senator Stewart, has secured the assistance of Eastern capital for its vigorous and thorough development. The Eastern company develop the claim for half its stock, the balance being assessible.

The Cole Company, after the persevering labors of five years, much of the time making but two or three inches a day, are now in with their tunnel a distance of 1,050 feet, and have recently come into good working ground, and struck a flow of some twenty-five or thirty inches of water, the sale of which is now paying the entire expense of driving the tunnel. They are now about 250 feet from the lead, which they will strike at a great depth, and, we hope, proportionally rich.

The Globe Company have struck some excellent rock in their claim on American Flat. They not long since struck pay rock in their shaft, but owing to a large influx of water, were unable to go to any great depth on the deposit. By an arrangement with the Kentucky company, however, they have driven in the tunnel of the latter, and have at last struck their lead at a depth much below the bottom of their shaft, finding ore of an excellent quality. The company will soon send a quantity of ore to the mills for reduction, when its exact value will be determined.

The Sierra Nevada Company, it is reported, have struck a deposit of fine looking ore in their mine. This company has been laboring assiduously for years in the development of their ground, and the public has been for a long time looking to this claim as the one destined to define the main paying ledge, on the north. If reports are correct, they have now accomplished that purpose.

The Overman Company are now taking out considerable quantities of ore. They have a number of tons of good pay rock on their dump, and have also hauled away to mills a number of tons besides. This is the first pay rock which the company have taken out since their new hoisting works were erected, about a year ago.

The Jura Company, on American Flat, have commenced operations on their claim, and henceforth will vigorously prosecute its development. Several other companies in the same vicinity are industriously at work upon their claims.

Flattering reports are given of the success of Dall's Mill at Franktown, under the superintendence of Mr. T. B. Schamp, a gentleman who has had an extensive experience in working silver ores. All the ores received at this mill that will work more than one hundred dollars are crushed by the dry process, roasted, amalgamated in the barrels, and the large amount of eighty per cent. of the fire assay is *guaranteed* to be returned to the assignors. The poorer grades of ore are worked by the pan process with average results.

NYE COUNTY.—The Nye County *News* gives favorable reports of the mines in that section of Nevada. Work appears to be prosecuted vigorously on the mines in that district, and all are sanguine of success. The ledges are represented as large, rich, and well defined. The chance for litigation is not so great as in some other districts where the ledges are more numerous, but smaller than here. The attention of capitalists is called to the advantages of that district, when it is confidently expected the returns will be both speedy and large.

The machinery for the Atlantic and Pacific Co.'s mill has arrived at Union. S. B. Martin and Co., are building a 10-stamp mill at Silver Peak, which will be running in September, for which the proprietors receive a one-half interest in the Vanderbilt ledge. A 3-stamp mill is being erected in Red Mountain District, by Phelps & Co., on the Hughes & Co.'s claim.

There are now being added to the amalgamating machinery of the Sapphire quartz mill sixteen more pans. The mill will have fifty-six amalgamating pans in all, when those now being put up are ready for use.

CALIFORNIA.

TRINITY.—The *Journal* remarks as follows on quartz mining in its county: There is yet considerable excitement relative to the late quartz discoveries in this county. The "Scorpion" company, mostly residents of this county, are making preparations for thoroughly prospecting their ledge this season, and work is being pushed vigorously in the West Weaver neighborhood. At Trinity Center the Copper creek and Whiskytown companies are busily at work, and we learn have lately taken out some fine prospects.

SIERRA.—According to the *Messenger*, the mining season in Alturas is about closed; most of the companies are through cleaning up, but it is rather hard to find out the exact sums taken out by the several claims. S. Kingdon & Co., have taken out $150,000, and are not quite through yet, and it is supposed they will reach the figure of $170,000. Other companies have done well. The Laporte companies cannot boast of such heavy returns of the precious ore as at the Secret Diggings, but they are willing to foot up at the end, and expect that the large aggregate made by the small sums saved, will form a base that is not easily shaken or scattered. The La Porte company will reach, when fully cleaned up, about $15,000; the Eagine company about $20,000; the Gowell company about $57,000, and other companies ranging from $10,000 to $15,000, though many have not realized their expectations in full.

The *Messenger's* correspondent from Howland Flat, writes that the tunnel mines there present a more cheering prospect than indicated by the sluicing. At Pine Grove the two prominent ones are the Lone Star and Sugar Loaf companies. The former are taking out larger pay than ever, running as high as eleven hundred dollars per week for eight men, and small expenses other than labor. The Down East and Mountaineer companies seem just at the present to be taking the lead. The Down East holds out and gives out, and the owners are happy in a certainty. The Mountaineer is making big clean-ups. The St. Louis, Wabash, Shirley, and other companies, are all realizing pay for labor at least, and extra pay at times.

NEVADA.—The *National* reports that Scadden, Trenberth & Co., on Boston Ravine Flat, have struck some extraordinary rich rock within a few days past. Nearly $3,000 in specimens were taken out in a few hours, with a plenty more of the same sort left in sight. These claims are on the same lead with those of Messrs. Watt & Co., on Massachusetts Hill, which have long been celebrated for their extraordinary richness.

Large quantities of exceedingly rich rock have recently been taken out of the Badger claims. Small lots have been obtained which will pay thousands of dollars to the ton. The incline is now down 180 feet.

The latest reported "clean up" of the Lucky company was a five thousand dollar brick, the result of one week's crushing with eight stamps. It is reported that Capt. S. W. Lee has sold out to Mr. Samuel Curtis, late superintendent of the Savage mine, at Virginia, the Ione claim, two miles south of Ophir Hill, on the Auburn road, for the consideration of $10,000.

The Star Spangled Banner mine, in Nevada, promises to become one of the most valuable in that portion of the county. Six or eight teams are now constantly employed in hauling its rock to the mill, where it is paying about $50 to the ton. Messrs. Kidd & Tisdale recently purchased this mine for $15,000.

The *Transcript* says that the mill of the Smith Brothers, at Rough & Ready, is now kept in constant operation upon rock taken from a ledge near that place. The quartz gives promiss of being quite rich.

R. C. Black, at North Bloomfield, recently purchased what is known as the Beck claims, and has been working them with excellent success. After paying all the expenses of a run of five weeks, he has $3,645 clear. The diggings are expensive ones, and the amount cleared proves them to be among the best.

SHASTA.—We learn from the *Courier* that an eight stamp mill is now on the way to the French Gulch mining district for the Honeycomb company. The prospects of this company are exceedingly flattering. Mr. S. B. Grover puts up the mill at his own expense, and runs it until the receipts shall have paid him for his outlay, when the mill and lode will become the joint property of five. It will be run by hydraulic pressure on a hurdy-gurdy wheel. The fall to the wheel is about 150 feet, and the proprietor thinks twenty-five inches of water will furnish a superabundance of power for twelve stamps. The rock in this lode is very much honey-combed, hence the name of the company. The mill will be in operation by the middle of September. The Honeycomb is the third mill in French Gulch; the Scorpion will make four—a fair beginning for poor folks. A few years, and the number may be multiplied by ten, says the *Courier*.

REESE RIVER.

We would call the attention of readers to the letter of our Reese River correspondent, which will be found in another column; also, to another article on the "Quartz Mills of Reese River." Aside from the matter contained in those articles, we have but little new from that direction this week.

We learn from the *Reveille*, that a rich body of ore has been struck in the Providential mine, on Lander Hill, which assays as high as $450 to the ton.

The Quertera mine, in Marshall Cañon, owned chiefly by Antonio Borques, is yielding upwards of $400 a week from ore mined and worked in a arastra, by six men only.

Mr. George Hart has entered into a contract with the proprietors of certain well known mines in the San Antonio District, for the erection of a ten stamp mill, with the barrel process. These mines are the Lee, Springfield, and La Libertad, and the owners have agreed to supply the mill with sufficient ore to keep it in constant operation. The mill is now being constructed in San Francisco, and will probably be completed and erected in ninety days.

HUMBOLDT.

The Humboldt *Register* says that a dividend of twenty-five cents to the share was declared by the operators of the Montezuma mine. This is the first regular dividend ever regularly made by any claim in the county. Individual owners have received product of ore worked—and companies have made expenses; but this was a net profit to all owners. It is to be hoped that this is the beginning of a bright future for Humboldt.

Mr. A. Stevenson, superintendent of the New York Company—the Etna—who has recently bought for that company the Montana ledge, in Trinity District, is now engaged in putting up a ten-stamp mill on the mine, the machinery for which has recently arrived on the ground. He will use Varney's pans, and Settler & Hungerford's separator. The Evening Star Company, near by, discontinued work upon their claim just as they got the ledge fairly below water. Webber's mill was lately running on a small lot of ore from the Savannah. Mr. W. was depending for ore mainly upon the Evening Star, and thinks he will now have to remove to the neighborhood of the Arabia mines, in the southeast corner of the district. The Montezuma mine is located there, and is considered rich. Good results have been obtained by mill process from the ore, although it is difficult to work, and they have not yet been able to extract near all the silver.

In this neighborhood are located the "Dunderburg," "Savannah," "Ne plus Ultra," "Sultana," Gloriana," "Galena," "Butte," and "Tontine" series, "Bartlett," "Eagle," and "Pacific" ledges. All these are rich, and apparently well defined, ledges. The mineral in these ledges is described as containing much galena, with large quantities of arsenic, and extremely difficult to work. The impression appears to be that it must be worked by a fire process, instead of the mill process usually employed. We condense the above from a correspondent of the *Register*.

SILVER MOUNTAIN.

Considerable activity appears to be manifested, at this time, in the Silver Mountain district. According to the *Bulletin*, published there, an arrangement has recently been made, or is about being consummated, for running a tunnel to prospect several parallel ledges, among which are the Wisconsin, which will be cut at 250 feet from the surface; the Napa at 344; the El Eorado at 475, and the Sierra Nevada at 850. The total length of the tunnel will be 826 feet; the total cost, $10,479, a trifle below $13 per foot, which will be properly apportioned among the parties benefited. From accurate surveys heretofore made, one of the ledges is the continuation of the I. X. L. These claims will all be tapped at depths sufficient to determine their value, gaining, as they do, nearly a foot in depth for one in distance as they enter the mountain.

The Monitor *Gazette* says that the saw-mill of Mr. Davidson, on Silver Creek, is about to be converted into a quartz mill; eight stamps and three Wheeler pans will be put into the mill, which will be in operation by September.

The reports from the Morning Star are still favorable. The agents in this city of a Swansea (Eng.) company, offered advances of $75 per ton on ores from this mine.

ESMERALDA.

The Esmeralda *Union* thinks the crisis for Esmeralda has now fairly passed, and looks confidently forward for better times. The Del Monte has commenced running with half her stamps. The company has ten hands employed in sorting over upon rock at the old dump. 150 tons have already been selected out for crushing. It is thought they will be able to gather in this way at least 300 tons of $40 ore. Some twelve or fourteen hands are also employed at the mine, who are now taking out some very fine ore.

The Antelope is also being worked by a few hands through the Young America tunnel with good success. The Cortez company are now taking out some first class rock through the Hamlet tunnel. The Golden Age and Empire prospecting shaft, has been under headway for some time, and is being pushed forward with all the energy that time and money will permit. The Wide West company's new prospecting shaft is in full blast, under the superintendence of Mr. Pope, who is sinking a shaft which will go down 500 feet below the tunnel, making 650 feet from the surface. The company is also erecting a steam engine with new hoisting works over the shaft, which will be ready for use in a few days, at which time the contractors will push the work forward night and day with three sets of hands.

Besides the above mentioned work, there is a large number of small parties of men working on the Last Chance. Middle and Silver Hills are taking out considerable pay ore. The Independent, Union and Bodie mills are now running with plenty of rock on hand.

OUR MINERAL EXHIBITION.

The proprietors of the MINING AND SCIENTIFIC PRESS have made arrangements with the managers of the Mechanics' Institute to take charge of all mineral specimens and curiosities which our friends in this city and in the interior may see fit to place in our care for exhibition at the coming Fair. By this arrangement, parties sending collections from abroad, with full descriptions, will have the benefit of having the same properly cared for and displayed, and their peculiarities explained by a faithful and competent attendant, who will be present during the Fair to exchange views and information by free discussion with various practical miners and scientific mineralogists. This, we believe, will be productive of much mutual good. We shall also publish a description of all articles furnished to our care and placed in the collections, to be circulated gratuitously to visitors.

Models of new machinery, inventions, and new discoveries, may also be sent to our care for display and illustration.

Those wishing special cases made for particular articles, or other extra arrangements for display, will have their orders filled by paying whatever extra cost may accrue.

All the steam transportation companies have liberally consented to forward, free, all articles intended exclusively for exhibition, consequently our friends will only need to prepay charges to the nearest point of railroad or steamboat connection, at which place Wells, Fargo & Cos. Express will receive them in charge and deliver to ourselves.

Address, For Mechanics' Fair, care of Dewey & Co., Mining and Scientific Press Office, San Francisco, per Wells Fargo & Co.

THE Dutch Flat *Enquirer* says that the newly discovered mining region at Meadow Lake, will at no distant day become the most famous for wealth of any yet discovered on this coast.

A VIENNA professor thinks he has discovered a new metal. He calls it idium.

Hiram Young, of Haverhill, Massachusetts, was killed lately by the explosion of a soda fountain which he was charging, and charged too much.

ABOUT 15,000 careless people in the United States, every week, neglect to put stamps on their envelopes.

The Patent Office has issued one hundred and sixty patents, in one day, lately.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. H. SMITH. W. B. EWER. A. T. DEWEY.

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It is Impossible for editors to know all the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides and the evidence of any error which may appear will be received in friendship and treated with respect.

American and Foreign Patents.—Letters Patent for inventors can be secured in the United States and foreign countries through the Mining and Scientific Press Patent Agency. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we refer to the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the Mining and Scientific Press, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the credit system.

San Francisco:

Saturday Morning, Aug. 5, 1865.

Removal.

The Office of the Mining and Scientific Press has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive Job Printing Office.

San Francisco, April 10th, 1865.

Canvassing Agents.

We would call attention to the following named agents of the Mining and Scientific Press as gentleman worthy of the countenance of any community which they may visit, and assistance rendered them in their efforts, by friends and old patrons, or our brethren of the Press, will be acknowledged as a personal favor to us:—

Mr. Robert Lattimore—Amador and Alpine counties and the State of Nevada.

Thos. Poyzer, of Grass Valley, for Nevada, Yuba and Sierra counties.

Vanilla.—A successful effort, it is said, has been made to raise this plant in France. The experiment was made in the public gardens of the St. Bruno, and the quality is affirmed to be equal to the best imported from the West Indies. The seed of the vanilla is remarkable for its fragrant odor, and yields an oil which is much used as a flavor. It is also employed in medicine in place of valerian, all the virtues of which it is supposed to possess, while it is at the same time far more grateful to the taste.

Colfax is to be the name of the town to be built up at the next stopping place of the Pacific Railroad. This will be the nearest point on the railroad for the business of Grass Valley, Nevada, San Juan, Downieville, Iowa Hill, Forest Hill, Todd's Valley, Michigan Bluffs and Yankee Jims, which business will insure it permanence and stability.

To Break up Ice.—A plan has been devised to prevent the disasters which usually accompany the spring freshets at Albany, by sinking a number of torpedoes in the river, and so connect them by wires as to explode them simultaneously, and thereby break up the ice and prevent it from forming a dam to the downward flow of the surplus water.

Safety Lamp.—Monsieur Olanier has contrived a mining lamp so that the workman cannot open the flame to the air without extinguishing it. He considers that no lamp is safe if it can be used at all without the wire-gauze guard.

It is reported that the White Sulphur Springs, in Napa county, have been sounded on frequent occasions to a great depth, without finding bottom.

A New Flouring Mill will soon be in operation at Santa Rosa. It has been erected by William Hood, Esq., and will be a great public convenience to that section of country.

There is said to be a petroleum lake in Churchill county, Nevada.

THE FOUNDRIES.

In most of these establishments a large amount of work is going out and new orders are constantly coming in.

The Pacific has a great variety of work on hand, among which marine orders predominate. The propeller engine, noticed heretofore as building for a tug boat for the Columbia bar, is now rapidly approaching completion. A horizontal engine eighteen inches diameter and twenty-four inch stroke, was also building for the saw-mill of Pope & Talbot, of Puget Sound. Two sixty-horse power engines, with pumping and hoisting gear for a shaft 500 feet deep, are in process of construction for the Baltimore American Company, of Virginia City. A pair of engines, each twelve inches diameter and four feet stroke, intended for a stern-wheel boat for the river trade, were also under way. A twenty-stamp quartz mill, with German amalgamating barrels, building for a New York company and intended to be sent to Idaho, is the main feature of the mining orders for the month, besides which, however, there are several small mills for the California and Reese River mines.

Passing down by the Portland Boiler Works, our attention was attracted by two immense hollow cylinders lying inside, and we braved the noise and entered, when we were informed that the cylinders in question were the boilers of a new ferry boat now building for the Alameda ferry line. They are to be *return*-flue boilers, each being twenty-three feet long and seven feet in diameter, containing two furnaces, each six feet six inches by three feet eight. The proprietors of these works are also building a locomotive boiler for the Alameda Railroad Co., said to be the largest ever employed upon this road, the dimensions of which we did not learn.

At the Union Works, in addition to the locomotives mentioned some time since as forming an important feature, an unusually large number of mining orders are now being filled. One of the locomotives for the San Jose R. R. was finished and sent from the shop this week. Twenty horses were required to draw it from the shop to the station, and the display furnished the residents of First street with the most marked "sensation" that they have enjoyed for months. Another locomotive has been commenced here for the Sacramento Valley Railroad Company, being the fourth that has been built in this establishment, which will probably hereafter make locomotive building one of the permanent features of its business. The mining orders now being filled include the following: Two engines, one of eight and one of ten inches diameter of cylinder, for the New York and Grass Valley company, of the Union mine, of Grass Valley, with eight inch pump, six feet stroke, and hoisting gear complete, for a shaft 300 feet deep; one twelve and one eight inch engine, for the New York and Santa Fe Company, of Reese River, with ten inch pump six feet stroke, and hoisting gear complete, for a depth of 350 feet; one ten-stamp mill with five of Wheeler's pans, on a New York order, for Idaho; ten-stamp mill and all fixtures for Little York, Nevada County, Cal.; one twenty-stamp mill, with eight flat-bottomed Wheeler pans, for the Manhattan Company, of Reese River, with engine and fixtures complete; ten stamps, ten Wheeler pans and five settlers to be added to the already fine mill of Birdsall & Carpenter, of Dayton, Nevada, and a small engine and boiler with hoisting gear for the Old Colony Company of Reese River. In addition to all these, the proprietors are building a fine engine, fourteen inches diameter and thirty inches stroke, to drive the machinery at the coming Mechanics' Fair, besides doing a large amount of general work, including the forging of three nine and a half-inch shafts of hammered iron, for a sugar-mill, the remaining machinery of which is being built at another establishment in this city.

On our return, we dropped in for a moment at the Golden State Iron Works, where we were welcomed by the smiling face of Mr. Hanscom, who informed us that they were having all the work they could do, among which he mentioned the iron-work for six bridges for the Western Pacific Railroad Company. We were sorry that want of time prevented our making a personal observation of the work going on in this establishment, but as time waits for no man, not even a newspaper-man, we were compelled to hurry away without enjoying the privilege of seeing for ourselves.

From appearances we judge the other foundries to be equally busy, but we were prevented by want of time from visiting any of them.

"MOUNT LINCOLN."

We see it stated that A. B. Paul (Cosmos), of Gold Hill, Nevada, recently left that place with the portraits of Washington and Lincoln in his possession, which he intends to place upon the top of a lofty elevation in the Kearsarge district, and christen the same "Mount Lincoln," after having erected a suitable monument for the reception and protection of the portraits. The claim for the above named title is based upon the asserted fact that this is the highest point of land in the United States. We believe the mountain in question has already received a name from its discoverer, to whom belongs the right of naming it.

Mr. Paul may not be aware that there exists a lofty and prominent peak in Colorado, which for three years has borne the name of the immortal statesman whom he designs to honor, and which has equal if not superior claims to the title, to that possessed by the tall peak in Kearsarge. We have before us a lengthy and eloquently written description of the trip, by one of the party, which made the first ascent three years ago, christened the hight "Mount Lincoln" with appropriate ceremonies, and published a short account of the act at the time.

This mountain is located in the northwest corner of South Park, and forms a corner stone to the three great counties of Park, Lake and Summit. From its sides flow the headwaters of the three great rivers, Platte, Arkansas and Rio Colorado. By the instruments which the party took with them, it was found that the mountain was over 15,000 feet high, and in all probability higher than the Kearsarge Summit. The summit is represented as a conical peak of granite—a fitting apex for a monument, which rests upon the base of the mountain, like "Pelion on Ossa piled." Such is Mount Lincoln, which *is*. We copy from the description above referred to:

"Few ever beheld as magnificent a prospect as is seen from its summit. Colorado is spread at your feet. The South Park—sixty miles long and thirty wide—with its undulating hills, green meadows, and a thousand glittering lakes and brooks, dwindles to a pleasure garden. You look over Long's Peak, north, almost into Ducotah. You look over the plains of Utah, to the west, stretching towards the golden shores of the Pacific. You look over the Spanish Peaks, south, into New Mexico; and turning to the east, your vision wanders over Pike's Peak where the great plains seem to rise up like an emerald ocean.

Such is Colorado's monument to our dead but immortal President. From its side, the great rivers suck the nutriment which feeds both ocean, and upon which ride the nations' navies and the commerce of the world. A thousand storms swept over it, but in vain to level it. A thousand cataracts lash around its feet, but from its summit you hear not their murmurs. Lightnings and thunders glance harmlessly from its crest, but its foundations remain unshaken. Its base is clothed in evergreens—sublime wreaths, such as never hung on the tombstones of emperors. Its top reaches so near the heavens as to attain the spotless purity of eternal white—bright emblem of immortality.

Let, then, other States and other people raise their monuments of patriotism and of art, to gild the fame of the great dead; but Colorado can point in all time to this proud monumental mountain, which rears itself as the gigantic spire of this continental vertebræ—she can point it out hundred of miles away, to the traveler as he travels from ocean to ocean, on the future international railway, and exclaim with the old Latin poet Ovid: "*Exegi monumentum aere perenior, atque altior Pyramides.*" I have erected a monument more enduring than brass, and loftier than the Pyramids.

INCREASING COMMERCIAL VALUE OF PETROLEUM.

As a proof of the great and increasing commercial value of petroleum and its products, we may cite the fact that a single French company has, within the past two years, manufactured from it $1,200,000 worth of the new aniline colors. They have already supplanted quite a number of substances heretofore employed as dyes. Some of the aniline colors, especially the blue, are sold for their weight in silver, which, by the way, is not quite equal in price to the ancient Tyrian purple, which is said to have been sold for its weight in gold.

British inventive genius, as well as our own, is at the present time most actively employed in devising new methods for turning to advantage the various products to be derived from our oil wells. Quite a number of patents have already been taken out for employing it in ordinary heating purposes, in cooking and for warming rooms, and with a very fair probability of introducing it into quite general use in that direction. The great object in view, however, is to employ it economically for making steam. The inventors of England and America are now running a lively race, to determine who shall soonest realize the problem. The practibility of the theory appears to be pretty generally acknowledged; the interest in the event is as to who will have the honor of winning in the race. We shall watch with much interest for future developments, and report whatever transpires.

The latest effort in this direction has been made by Mr. C. J. Richardson, at Woolwich, England, who, with his improved petroleum boiler, has succeeded in evaporating 150 gallons of water with fourteen gallons of petroleum. It appears that with the improvements, he vaporizes, on an average, at the rate of 12¾ pounds of water per one gallon of petroleum, and Mr. Richardson anticipates reaching fourteen or fifteen pounds to the gallon of petroleum. For such early trials, he considers the results hitherto obtained as extremely satisfactory. The oil is under perfect control, there is no danger whatever, and the boiler is very easily worked.

The Faucherie Mill.—Messrs. Gerard & Faucherie are putting up one of their mills in Gold Hill, Nevada, at a point just below the Petaluma mill. This, it will be recollected, is constructed on the crushing or masticating principle, by which the rock is reduced to a proper fineness from the pans in being put through a pair of vibrating jaws. The crushing by this machine is a dry process, and it is claimed that a great saving in gold is thereby made over stamping, which must be done in water, in all the ordinary constructed mills.

Proposed National Mining Convention.—We have received a circular from Gilbert E. Currie, editor of the *American Mining Gazette*, 79 Pine street, New York, recommending a National Convention of miners, and asking for hints or suggestions from officers of mining companies. We are not informed of the precise object of the Convention, but there can be no doubt but that much good could be done by holding such a convention whereia miners of all classes might confer together.

A Flouring Mill in Carson Valley.—The people of Nevada have determined to take the initiatory steps to free themselves from the flour speculators of this city. They have commenced the erection of a flouring mill in Carson Valley, and will soon be ready to turn out the "staff of life." The farmers of Carson Valley are this year raising large crops of wheat, which will soon be ground to flour in this mill. The proprietors of the mill will also lay in a large stock of California wheat, so that the mill can be kept in constant motion.

The Kearsarge Mines.—The Mariposa *Free Press* intimates that the newly discovered Kearsarge mines are not likely to realize the anticipations of the discovers. It says that silver cannot be found except in one claim, and but little in that. This report "lacks confirmation."

FURTHER FROM THE SANTA BARBARA METEOR.—Mr. C. D. Gibbes, says the Stockton *Independent*, of July 28th, who recently returned from a tour in the oil regions of Tulare county and along the Coast Range of mountains, says that on the evening of the 12th instant he heard a tremendous report, much louder than a heavy cannon, and for several seconds the sound echoed, re-echoed and rumbled through the mountains gorges—the fading noise resembling thunder in the distance. He thinks it was the explosion of an ærolite, such as is supposed to have caused a similar report near the San Joaquin river, about twenty miles from the city, nearly two months ago. The loud report of which Mr. Gibbs speaks, was heard in the evening, about the same hour that a brilliant meteor was seen in Santa Barbara. The Santa Cruz *Sentinel* says that a meteor was generally observed throughout that section at the same time, and that parties from Watsonville report that it was near that place. A meteor about one-third the size of the full moon and as brilliant as the sun at mid-day, was seen east of Virginia City. It is said to have moved in a southeast direction, while the one seen at Santa Barbara is reported to have moved from the southeast to northwest. There must have been several meteors on the rampage, or one cavorting through the air in different courses on its own hook. *Exchange.*

The sound heard by Mr. Gibbes was no doubt caused by the bursting of the Santa Barbara meteor. The report that a meteor was seen moving in an opposite direction from that which was noticed by Dr. Jackson, must be a mistake, and doubtless arose from the misapprehension of the observer, or an oversight of the compositor who put his manuscript in type. We should be pleased to hear from Mr. Gibbes more particularly, with regard to the locality at which he heard the explosion, its direction, etc. His observations would be very valuable in the researches which are being made with regard to this interesting visitor from distant space.

CHANGE IN ENGLISH RIFLE PRACTICE.—Late English papers say that all rifles for military use in the line, will hereafter be loaded with explosive shells instead of solid bullets. The master armorer at the Springfield Armory, E. S. Allin, has invented a new breach-loading musket so acceptable to the Ordnance department that 5,000 muskets of the old style are to be forthwith remodeled to the new.

ROAD TO THE OIL REGIONS.—A company has been organized in Humboldt county to construct a plank road from the Mattole river valley to Humboldt Bay. The early completion of this undertaking is a matter of the utmost importance to the oil interest of that region, and it is said that work upon the same will be pushed ahead with the utmost dispatch.

PHOTOGRAPHIC IMPROVEMENT.—The new London process of photographing on wood extends the art most successfully to decorative purposes, indefinitely and cheaply multiplying ornaments in fresco, panels, pictures, and especially grainings, which can be transferred to new surfaces with the nicest accuracy, and cannot be eradicated any more than common paint.

THE swiftest ocean steamer in the world is said to be now fitting for sea, at Rochefort, France. She is of large size, her dimensions allowing her to receive on board and convey a small *corps d'armee*. It is expected that she will perform one hundred leagues a day, and by her extraordinary speed render great service when time is an object.

GOLD MINING IN AUSTRALIA.—A fresh impetus has recently been given to gold mining in Australia, by the recent discoveries of a lode which it is thought will yield one and a quarter million of dollars a year.

FOR SALE.—The first nugget of gold discovered in this State, is offered for sale by the possessor, Mr. Wiemar, now a resident of Sonoma. It weighs but $4.50, and nothing but the poverty of the one who discovered all this wealth, is the cause of its being offered for sale.

SUTRO'S DRAIN TUNNEL.—This important enterprise is said to be now fairly under way. The importance of this work can scarcely be estimated. Hon. W. M. Stewart has been elected President of the organization.

IRONCLADS—A QUERY.

A Grass Valley correspondent writes us as follows:—A number of your subscribers desire me to ask you for reliable information as to the *largest* and *strongest* made ironclad war vessel afloat. There has been quite a dispute between parties here as to England or America having the strongest ironclad. A Scotch gentleman says that England has lately launched two ironclads, larger and stronger, or heavier plated, than the United States Government have ever made or owns. I suppose Monitors are called war vessels, although they are for harbor defence, and I do not know whether England has ever built any. At any rate, your decision as to the strongest and largest "war vessel," will satisfy the parties. An answer through the columns of the PRESS would be thankfully received. P.

The Dunderberg, constructed at New York, and a combination of the monitor and broadside build, according to the best of our recollection, is the largest ironclad afloat. England has never yet launched any vessel of the monitor build; although, if we are not mistaken, she has one, if not two, of that class now on the stocks. All the ironclads heretofore constructed by either the English or French have been frigate built, with broadside guns, a style of build which will not admit of a heavier plating than five or five and a half inches. Such vessels are no match for our first-class monitors, which carry nine and a half inch plating—a weight of iron which would sink any broadsider. No man, living or dead, has had more experience in the effectiveness of ironclads than Admiral Porter, of Fort Fisher notoriety; and the Admiral says that with the double-turreted monitor Monadnock he can whip any ship in the world. We know of no better authority upon which to decide that portion of our correspondent's query.

THE well of the Pioneer Oil company, near Los Angeles, is now four hundred and forty-five feet deep. On the 29th of July there were over one hundred feet of oil and water in the well. The proprietors are very sanguine of shortly striking oil in paying quantities.

THE filthy pool of politics in this State, seems to be stirred up from its very dregs. The manner in which the present State canvass is being carried on, is disgusting to every manly instinct.

A CURIOUS VINE.—A curious vine, says the *Nevada Transcript*, has recently been found in some of the gardens in this vicinity. It is a parasite and readily attaches itself to other plants. The vine is about half the size of an angle worm, is of a light color, and appears very tender, but it is almost impossible to kill it. One of these vines has fastened itself upon Judge Beldon's potato tops, and it climbs from one plant to another without difficulty. If broken into pieces and thrown upon the plants it soon winds itself around the stems, inserts its feeders into the plant, and shoots out its tendrils in every direction, losing none of its vitality by the rough treatment. We are informed that many vines of the same kind grow up along the Yuba. However this may be, the creeping parasite will furnish interesting study for the botanist.

POSTPONEMENTS.—We would again call the attention of Secretaries to a certain point of the mining law, too commonly overlooked, viz: The requirement that all postponements must be added previous to the expiration of the regular publication of assessment or sale notices.

HANSCOM'S CRUSHER.—One of these patent quartz-crushers was put into operation at the Granite mill, in Gold Hill, a few days ago, and is said to work most admirably. Mr. Parks informs the Gold Hill *News* that it is one of the most labor-saving machines he ever saw.

OUR PAPER BY EXPRESS.—Owing to the fact of Wells, Fargo & Co requiring publishers to pay 2½ cents per copy in advance on papers sent to subscribers in the interior, we are obliged to make our subscription terms by express $6.50 per annum. Our recommendation to newspaper patrons is to patronize the U. S. mail in all cases practical, as it is the cheapest and most reliable conveyance.

Printer Boy Wanted.

An active and reliable boy, about sixteen years of age who wishes to learn the printing business thoroughly, in all its branches, can obtain a situation at this office upon presenting suitable recommendations.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and all other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELING'T LIST.	DAY OF SALE.
Alpha, Gold Hill	$90		Aug 26–Sept 27
Adriatic, Storey co.,	$1.50		Aug 3–Aug 16
Bolinas, Petroleum, Marin co.,	25c		Aug 5–Aug 19
Bella Vista, Lower Cal,	25c		July 29–Aug 12*
Bacon M. & M. Co.,	$10		Payable May 10
Burning Moscow, Storey co.,	$10		Aug 16–Aug 29
Belcher, Baldwin & Abernethy			Dividend of $17, June 3
Bullion	$40		Sale Aug 7
Barreteros, Sinaloa, Mex.,	$5		July 27–Aug 9
Barreteros, Sinaloa			Annual Meeting Aug 7
Benicia Cement Co.,	$5		Aug 8–Aug 23
Blue Ledge, El Dorado co.,	$1.60		Aug 16–Aug 30
Baltimore American, Storey co., Nev.,	$5		Sept 5–Sept 19
Camargo (Eclipse), Lander co.	$5		Aug 19–Sept 6*
Chloride Ledge, Calaveras co.,	$1		Aug 12–Aug 26*
Cherokee, Echo District,	75c		July 29–Aug 22*
Confidence,			Dividend, $100 per foot May 1
Chollar, Storey co., Nev.,	$12½		July 31–Aug 14
Cortez, Lander co			Annual Meeting Aug 10
Chipionena, Sonora, Mex.,	$5		Aug 26–Sept 8
Cosala, Sinaloa, Mex.,	$1.50		Aug 23–Sept 9
Cole, Storey co., Nev.,	$1		Sept 4–Sept 19
Cobortita, Sinaloa, Mex.,	$5		Sept 1–Sept 12
Cousolacion, Sinaloa, Mex.,	$2		Aug 30–Sept 11
Central, Storey co., Nevada,	$5		Sept 6–Sept 26
Dardanelles, Del Norte co.,	20c		Aug 5–Aug 19
Daney, Lyon co., Nev.,	$1.25		Aug 11–Aug 28
Eagle Quartz, Amador co	75c		Sept 2–Sept 22*
Emilia, Mex.,	50c		July 29–Aug 12*
El Dorado, Alpine co.,	$1		July 22–Aug 14*
El Tesora, La Paz,	$1		Aug 14–Aug 25
Franco-Americana, San Antonio,	50c		July 29–Aug 11
Great Western, Aurora,	10c		Aug 26–Sept 9*
Globe, Alpine co			Annual Meeting Aug 21*
Golden Rule, Dividend			Payable July 20*
Good Hope, Alpine co.,	50c		Aug 12–Aug 26*
Geo. Washington, Alpine co.,	$1		Aug 12–Aug 26*
Gould & Curry,			Dividend, $50 July 6
Green, Storey co.,	$1		July 22–Aug 5
Great Republic, Contra Costa co.,	12½c		July 29–Aug 16
Guadaloupe, Chihuahua, Mex.,	$10		Levied June 26
Great Consolidated, Boise River, Idaho,	50c		Aug 11–Aug 22
Hanscom Copper, Del Norte co.,	15c		Aug 26–Sept 12*
Honest Miner, Lander co.,	50c		Aug 26–Sept 12*
Halleck, Alpine co.,	50c		Aug 12–Aug 26*
Hanscom, Del Norte co.,	15c		July 22–Aug 5*
Hale & Norcross, Storey co.,	$25		Aug 7–Aug 21
Imperatrice Eugenie, Calaveras co.,	25c		Sept 2–Sept 19*
Jewett, Gold Hill, Nev.	$1		Aug 19–Sept 2*
Jura, American Flag dist., Nevada,	$1		Aug 28–Sept 9
Jeffrey, Oil,	$25		Levied July 31
Keokuk, Contra Costa co			Annual Meeting Aug 9
Lord Byron, Devil's Gate,	50c		Aug 26–Sept 11*
La Libertad, Lower Cal.,	50c		Aug 5–Aug 14*
La Victoire, Mariposa co.,	$3		Aug 12–Aug 28*
Lotus, Calaveras co.,	15 cts		Aug 15–Sept 2
La Victoire, Mariposa co			General Meeting Aug 19
La Blanca, Sonora, Mex.,	3.50		Aug 23–Sept 9
Las Cruzeltas, Sonora, Mex			Special Meeting Aug 12
Mosquito Quartz, Calaveras co.,	$5		Aug 26–Sept 15*
Marathou, Mono co.,	50c		July 15–July 29*
Minerva Cons., Gold Hill,	$25		July 31–Aug 15
Maggie, Lander co., Nev.,	$2		Aug 8–Aug 19
Maggie			Special Meeting Aug 9
Mechanics, Contra Costa co			Annual Meeting Aug 9
Nuestra Sen. de Guadalupe, Durango,	50c		July 29–Aug 16
Napoleon, Calaveras co.,	$5		Aug 5–Aug 18
Napa, Alpine co.,	50c		Aug 5–Aug 14*
New Hope, Lander co., Nev.	$1		Aug 14–Sept 2
North Star, Lander co., Nev.	$11		Aug 10–Aug 23
Nonpareil, Tuolumne co.,	$2		Aug 14–Aug 31
Old Colony, Reese River,	$5		Aug 26–Sept 11*
Ontario, Lander co.,	$1		Aug 22–Sept 4
Overman, Storey co.,	$50		Aug 2–Aug 18
Ontario, Lander co			Annual Meeting Aug 7
Overman, Storey co			Special Meeting Aug 9
Ophir			Special Meeting Aug 8
Porter, Virginia, Nev.	$5		Aug 19–Sept 2*
Potosi, Storey co., Nev.,	$25		July 31–Aug 14
Patrocina & Dolores, Chihuahua, Mex.,	1.50		Sept 1–Sept 15
Petaluma M. & M. Co.,	Dividend of 5 ₱ cent.		July 5
Paragon, Petroleum, Humboldt co.,	30c		Aug 5–Aug 19*
Point Arena, Petroleum			Annual Meeting Aug 9
Peninsula, San Antonio, L. Cal.,	$10		Aug 18–Aug 31
Patrocina & Dolores			Annual Meeting Aug 28
Rose, Mariposa co.,	50c		July 22–Aug 5*
Rose Linda, Alpine co.,	$3		Aug 5–Aug 16
Rochester Cons, San Bernardino co.,	$1.25		Aug 16–Aug 28
Revenue, Lander co., Nev.,	$1		Aug 26–Sept 13
Rancheria, San Antonio, L. C			Sept 2–Sept 16
St. Clair, Smoky Valley,	50c		Sept 2–Sept 16*
Sheba, Humboldt co., Nev.,	$25		Aug 19–Sept 2*
Smoky Valley, Smoky Valley dist.	$1.50		Aug 12–Aug 30*
Southern Light, R. R.	50c		Aug 19–Sept 6*
Simpson M & M Co., Alpine co.,	60c		Aug 12–Aug 26*
Sierra Nevada, Alpine co.,	75c		Aug 12–Aug 26*
Savage,			Dividend, of $75 May 5
Santiago			Dividend May 17
San Rafael, Lower Cal.,	50c		July 29–Aug 15*
Sacramento & Meredith, Storey co.,	50c		Aug 4–Aug 19
Sierra, Douglas co., Nev.,	$2		July 24–Aug 9
Shoshone, Lander co, Nev.,	$1		Aug 7–Aug 21
St. Paul, Lander co.,	50c		Aug 5–Aug 22*
Santa Cruz, San Antonio, L. C.	$2		Aug 8–Aug 21
San Francisco, Del Norte co.,	70cts		Sept 1–Sept 13
Salambo, Tuolumne co.,	75cts		July 19–Aug 5
Sweet Vengeance, Yuba co.,	$1		Aug 19–Sept 4
Siempro Viva, Sinaloa, Mex.,	$2.50		Aug 29–Sept 9
Savage			Adjourned Meeting Aug 7
Table Mountain, Calaveras co.,	50c		July 29–Aug 14*
Triunfo, San Antonio,	$3		Aug 7–Aug 19

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELING'T LIST.	DAY OF SALE.
Tellurium, Amador co.,	$1		Aug 3–Aug 16
Tecoripa, Sonora, Mex.,	$3.50		Aug 7–Aug 19
Tecoripa, Sonora, Mex			Annual Meeting Aug 3
United States, Lander co			Meeting Aug 10
Uncle Sam, Storey co.,	$50		Aug 2–Aug 18
Union, Sierra co			Annual Meeting Aug 14
Vulcan, Lander co			Annual Meeting Aug 5*
Vulcan, Lander co.,	50c		July 22–Aug 5*
Ventana			June 3—Caution
Wisconsin, Alpine co.	1		Aug 19–Sept 2*
Whitlach Yankee Blade, Lander co.,	$10		Aug 26–Sept 12*
Whitlach, Lander co.,	$7.50		Aug 7–Aug 22
Yosemite, Ore Fino dist.,	$1.25		Aug 5–Aug 19*
Yellow Jacket,			Dividend of $100 May
Yankee Blade, Lander co., Nev.	$1		Aug 12–Aug 29

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	*Date of Levy.*	*Am't per foot*
Alpha	July 25	360 00
American Flat Nevada	July 28	2 00
Burning Moscow	July 11	20 00
Branch Mint	July 12	1 50
Central Hawkeye	July 10	3 00
Chrystal Peak Consol	July 30	2 00
Globe	May 16	1 00
German	July 22	50
Hamilton	July 8	45
Hale & Norcross	July 7	25 00
Imperial Consolidated	July 24	51
Jewett	July 22	1 00
Jura	July 26	1 00
Knickerbocker	July 7	1 00
Keystone	July 11	1 25
Nevada	July 25	10 00
Overman	June 10	50 00
Peck	June 7	1 00
Sacramento & Meredith	July 4	50
Sides	July 18	10 00
Siegel	July 8	60
Uncle Sam	July 3	50 00
Union	July 28	25
Virginia & Truckee R R Co	July 16	200 00
Yolo	July 7	1 00

Delinquent Sales.

Name of Company.	*Date of Sale.*	*Place of Sale.*
Alamance	Aug 26	Virginia
Bullion	Aug 7	Virginia
Cæsus	Aug 23	Gold Hill
Cliffilar	Aug 14	San Francisco
Globe	Aug 15	Virginia
Golden Swan	Aug 7	Gold Hill
Green	Aug 5	San Francisco
Imperial Consolidated	Aug 22	Gold Hill
Jewett & Shepard	Aug 3	Gold Hill
Kossuth	Aug 5	Virginia
Keystone	Aug 21	Gold Hill
Mount Blanc	Aug 10	Virginia
Mary Ann	Aug 12	Gold Hill
Napoleon Consolidated	Aug 7	Virginia
Opal	Aug 2	Virginia
Overman	Aug 18	Virginia
Peck	Aug 8	Gold Hill
Potosi	Aug 14	San Francisco
St. John	Aug 17	Virginia
Siegel	Aug 17	Virginia
Sand Springs Salt Co	Aug 21	Virginia

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl		6 00 @	7 00
Do Superfine		5 50 @	6 00
Corn Meal, ₱ 100 lb		3 00 @	4 00
Wheat, ₱ 100 lb		1 70 @	1 95
Oats, choice, ₱ 100 lb		1 75 @	1 95
Barley, ₱ 100 lb		1 00 @	1 05
Beans, ₱ lb		3 @	4 00
Potatoes		1 50 @	2 00
Hay, ₱ ton		11 00 @	15 00
Live Oak Wood, ₱ cord		8 00 @	10 00
Beef, on foot, ₱ lb		8 @	10
Beef, extra, dressed, ₱ lb		16 @	22½
Sheep, on foot, ₱		1 00 @	2 00
Hogs, on foot, ₱ lb		8 @	12
Hogs, dressed, ₱ lb		12 @	15

Groceries, Etc.

Sugar, crushed, ₱ lb		16 @	17
Do China		12½@	13
Coffee, Costa Rica, ₱ lb		22 @	23
Do Rio		22 @	22
Tea, Japan, ₱ lb		85 @	90
Do Green		70 @	90
Hawaiian Rice, ₱ lb		@	10
China do		10 @	12
Coal Oil, ₱ gal		1 05 @	1 10
Candles, ₱ lb		20 @	50
Rench Butter, ₱ lb		40 @	45
Isthmus do		32 @	35
Cheese, California, ₱ lb		20 @	25
Eggs, ₱ doz		45 @	50
Lard, ₱ lb		23 @	25
Ham and Bacon, ₱ lb		23 @	25
Shoulders		16 @	18

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb		45@	50
do pickled ₱ lb		40@	50
do Oregon		30@	35
do New York, ₱ lb		30@	37½
Cheese, ₱ lb		20@	25
Honey, ₱ lb		40@	50
Eggs, ₱ doz		50@	55
Lard, ₱ lb		25@	
Hams and Bacon, ₱ lb		20@	25
Cranberries ₱ gal		75@	
Potatoes, sweet, ₱ lb		6@	8
do Irish, ₱ lb		4@	5
Tomatoes, ₱ lb		10@	10
Onions, ₱ lb		6@	6
Apples, No. 1, ₱ lb		6@	8
Pears, table ₱ lb		8@	10
Plums, dried, ₱ lb		10@	15
Peaches, dried, ₱ lb		10@	15
Grapes, Foreign, ₱ lb		25@	50
Oranges, ₱ 100		2 50@	3 00
Lemons, ₱ 100		5 00@	6 00
Chickens, apiece		1 00@	1 25
Turkeys, ₱ lb		37½@	
Wild Ducks, ₱ doz		4 00@	6 00
Oysters, ₱ 100		1 00@	1 25
Fish, Fresh, ₱ lb		5@	20

LIST OF OFFICERS OF MINING COMPANIES AND INCORPORATIONS.

[PUBLISHED IN THE ISSUE OF EACH MONTH.]

[Below we give the date of recent meetings held in this city and the names of officers chosen or appointed. Every bona-fide company is invited to send us the result of their election, to be thus put on record, gratuitously, with any other facts of general interest.]

BALTIMORE AMERICAN G. & S. M. Co., Gold Hill, Nev.—July 22d. Trustees: Geo. B. Reeve, B. F. Sherwood, C. J. Hillyer, L. Gerstle, Edward Hull. President, Geo. B. Reeve; Secretary, J. H. Sayre; Treasurer, John Sime; Sup't., Edmund Pather. Office 33 Montgomery Block.

BIG BLUE LEAD G. & S. M. Co.—July 18th. Trustees: Ira P. Rankin, A. P. Brayton, Jr., J. L. Bryea, J. Landsberger, L. Tiehner. President, Ira P. Rankin; Secretary, M. G. Elmore; Treasurer, A. P. Brayton, Jr.

GEM OF SIERRA S. M. Co.—July 22d. Trustees: Richard Homfray, W. H. Ford, A. Clayburgh, Thos. Boyce, Wm. T. Browne. President, Richard Homfray.

GOLD HILL TUNNELING G. & S. M. Co., Gold Hill district, Storey County, Nev.—July 15th. Trustees: Camilo Martin, P. G. Venard, Chas. Gailhard, H. Huguet, A. Pichoin, B. Lamalle, H. W. Fortune. President, Camilo Martin; Secretary and Treasurer, R. Wogener; Sup't., F. Chappellet.

MOUNT ST. HELENA QUICKSILVER M. Co., Lake Co., Cal.—July 25th. Trustees: John Lawley, H. Woodleaf, Wm. Willis, M. Weil, G. Gump. President, H. Woodlcaf; Secretary and Treasurer, J. M. Buffington; Sup't., John Lawley.

RANCHERIA S. M. Co., Snn Antonio district, Lower Cal.—Trustees: A. Roseufield, L. B. Dell, E. F. Anthony, W. Calvert. President, W. A. Woodward; Secretary, W Calvert; Treasurer, E. T. Anthony; Sup't., Thos. H. Chivell.

STAR OF HOPE G. & S. M. Co., Silver Mountain, Alpine Co.—April 20th. Trustees: H. S Smith, W. A. Williams, W. A. Boyd, W. H. Steiger, Chas. H. Robbins. President, H. S. Smith; Secretary, John Rafferty; Treasurer, W. A. Boyd. Office 137 First street.

UNION MATTOLE OIL Co.—July 28th. Trustees: Thos. G. Richards, A. A. Hadley, Edward Bosqui, Seth Cook, W. C. Parker. President, Thos. G. Richards; Secretary, C. Winter; Trensurer, E. Bosqui; Sup't., —— Bosqui. Offies 606 Merchant street.

REESE RIVER INCORPORATIONS.

ELK HORN PETROLEUM Co.—July 1st. Trustees: James Moonsy, S. S. Wright, Wm. C. Parker, E. O. F. Hastings, T. D. Mntthewson.

NATIONAL G. & S. M. Co.—July 1st. Trustees: John S. Doe, J. C. Cahill, G. M. Burnham.

SAN FERNANDO PETROLEUM Co.—July 1st. Trustees: C. C. Knowlss, A. N. Clarke, Edw. Johns, Gso. de Luce, Jonas Call.

MONUMENTAL PETROLEUM Co.—July 5th. Trustees: Wm. McPherson, Sam'l Little, John W. Schiup, Geo. C. King, J. D. Ramsey.

KELLOG CREEK PETROLEUM & MINING Co.—July 11th. Trustees: S. N. Stranahan, C. W. M. Smith, W. F. Brandreth.

SANATOGA PETROLEUM Co.—July 12th. Trustees: Isaac Rowell, Chas. E. Abbot, Wm. Irelan.

MONTGOMERY PETROLEUM Co.—July 12th. Trustees: Isaac Rowell, Wm. Irelan, Chas. E. Abbot.

MINNIE LOTTIE PETROLEUM Co.—July 15th. Trustees: J. W. Lees, Wm. Zabriskie, H. H. Ellis, John F. Quailey, R. G. Surdam.

COABORTITA G. & S. M. Co.—July 15th. Trustees: John C. Birdseye, Chas. N. Felton, O. A. Sanborn.

SEGREGATED BELCHER MINING Co.—July 18th. Trustees: Frank Livingston, John Sime, A. K. P. Harmon, E. R. Burke, Robert Appls.

"DICK JOHNSTON" BEAN RIVER PETROLEUM Co.—July 19th. Trustees: Geo. Hearst, R. P. Hammond, Chas J. Barber, J. W. Pearsou, Mark L. McDonald.

EXCHEQUER M. Co.—July 19th. Trustees: A. K. Grimm, O. A. Sanborn, S. Heydenfeldt, Chas. H. Grimm, A. K. P. Harmon.

SQUARZA OIL Co.—July 21st. Trustees: Wm. M. Ryder, V. Squarza, P. W. Randle.

MARSH CREEK PETROLEUM OIL Co.—July 25th. Trustees: W. F. Brandreth, Jos. Mosheimer, Henry O. Howard.

SAN FRANCISCO OIL Co.—July 27th. Trustees: Wm. Henry, Wm. F. White, Alex. Gamble, Edw. Martin.

COMET PETROLEUM Co.—August 1st. Trustees: Geo. R. Paul, Robert Kirk, Wm. Vale.

LYON PETROLEUM Co.—August 1st. Trustees: Minor S. Martin, H. C. Howard, Joshua Lyon.

HOWARD AND MARTIN PETROLEUM Co.—August 1st. Trustees: Minor S. Martin, H. C. Howard, Joshua Lyon.

San Francisco Stock and Exchange Board.

SAN FRANCISCO, August 5, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ 74½	$ 74¾
Gov. Legal Tender Notes	73¾	74
State Bonds, 7 ₱ cent	80	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855. 6 ₱ cent	..	..
San Francisco Bonds, 1858 6 ₱ cent	63	70
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	50	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	..
Butte County Bonds, 10 ₱ cent	..	..
California Navigation Co	74¾	75
State Telegraph Stock	29	32
San Francisco Gas Co	90	02
Sacramento Gas Co	80	..
Spring Valley Water Co	50	50½
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	..	..
Central Railroad Co	..	..
North Beach and Mission	38	..
MINING STOCKS.		
Ophir	$ 320	$ 425
Gould & Curry	1500	1550
Empire M. & M. Co	465	475
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	1250	1300
Chollar	452	455
Potosi	440	445
Hale & Norcross	....	600
White & Murphy	....	....
Sierra Nevada	20	21
Daney	....	....
Burning Moscow	31	31½
Lady Bryan	7	7¾
Sacramento & Meredith	....	....
Burnside	....	5
Iowa	....	....
El Dorado	....	....
North American	38	39
Baltimore American	15	20
Yellow Jacket	1220	1225
Overman	250	260
Cedar Hill Tunnel	....	....
Wide West	6½	7
Crown Point	830	850
Antelope	....	....
Emeralda	....	10
Ætna	....	....
Real del Monte	7	14
Silver Hill	....	....
Utah	....	....
Justis	15	25
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co	....	35
Melones and Stanislaus	....	....
Sheba	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H	163	....
Buckeye	....	....
Dick Sides	....	....
Imperial	230	235
Alpha	1450	1480
Bajazett	....	....

NEW ENGLAND KITCHEN.

The Proceeds of the Kitchen will be applied as a Building Fund for a "Sailor's Home."

The undersigned have been charged with the duty of establishing and conducting the "NEW ENGLAND KITCHEN" during the Industrial Fair, to commence on the 10th of August, at the Pavilion.

We shall reproduce the customs and costumes of the last century, and illustrate as far as possible the domestic life and habits of our ancestors. The OBJECT will commend itself to every philanthropist, as its basis is UNIVERSAL BENEVOLENCE, irrespective of sect or country. Social gatherings of the olden time will form an attractive feature, viz: "Spinning Bee," Apple-paring, Donation Party, Singing School, Wedding Party, etc., etc. The room is of sufficient dimensions to accommodate a large number of guests, and the table for their entertainment will be supplied with every variety, among which the following dishes peculiar to New England: Pumpkin, Apple and Chicken Pies, Indian Pudding, Johnny Cake, Pork and Beans, Brown Bread, Doughnuts, Cider, Apple Sauce, etc. In order to portray a life-like and truthful presentation of the "times" of '76, the Committee have incurred great expense in fitting up necessary arrangements, and therefore earnestly petition from the public donations or loans of relics, jewelry, wearing apparel, furniture and whatever else they can find of ancient date. All loans will be carefully returned. Cash contributions, which may be enclosed to Mrs. C. E. Cogswell, Treasurer, No. 610 Front street, will be thankfully received. Friends, in the city or country, sending contributions, will please have them plainly marked "NEW ENGLAND KITCHEN, Pavilion, corner Geary and Stockton streets." The several transportation companies have generously consented to transport articles marked for the NEW ENGLAND KITCHEN free of charge. Communications may be addressed to the New England Kitchen, care of G. W. Conkling, 714 Montgomery street, and notices of contributions so addressed will be sent for.

Executive Committee.

MRS. R. H. LAMBERT, Chairman.

Mrs. C. D. Knights,	Mrs. C. E. Cogswell,
Mrs. E. T. Schneck,	Mrs. J. McLain,
Mrs. L. A. Austin,	Mrs. G. W. Conkling,
Mrs. L. E. Dam,	Mrs. M. J. Holt,
Mrs. P. E. Harding,	Mrs. L. Palmer,

Mrs. Anthony.

MRS. C. E. COGSWELL, Treasurer.
MISS L. A. SMITH, Recording Secretary.
MRS. E. T. SCHNECK, Corresponding Secretary.

Advisory Committee.

CAPT. J. L. BLACK, Chairman.

Capt. L. B. Edwards,	H. H. Bigelow,
Capt. J. F. Stewart,	J. B. Badger,
Capt. E. D. Morton,	L. Knights,
H. D. Cogswell,	Judge P. W. Shepheard,
M. E. Austin,	Lewis Peck, Esq.

Raw Materials of best quality wanted in large quantities.

Poultry,	Salt,
Beef,	Pepper,
Mutton,	Pepper Sauce,
Pork, fresh	Butter,
Beef Hams,	Lard,
Beef Tongues,	Hulled Corn,
Ham,	Sweet Corn,
Salt Beef,	Codfish,
Pork,	Lima Beans,
Flour,	Cheese,
Indian Meal,	Raisins,
Rye Meal or Flour,	Cider,
Sugar, crushed	Eggs,
Coffee and Tea,	Apples,
Beans,	Red Peppers,
Spices,	Vinegar,
Pickles of all kinds,	Cream and Milk,
Cider Apple Sauce,	1 Box of Brown Soap,
Pumpkins and Squashes,	4 Boxes of Candles,
Dried Apples,	Vegetables of all kinds.

Friends are earnestly requested to send in donations of cooked material of every variety. 5v11

San Francisco Metal Market.

PRICES FOR INVOICES.

(Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1c@1½c ₱ lb; sheet, polished, 3c ₱ lb, common, 1¼@1¾c ₱ lb; Plate 1½c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2¼c ₱ lb.

Scotch and English Pig ₱ ton	—@40
American Pig ₱ ton	—@39
Refined Bar, bad assortment, ₱ lb	3 @—
Refined Bar, good assortment, ₱ lb	3¼@—
Boiler No. 1 to 4	4 @ 4½
Plate No. 5 to 9	4½@—
Sheet No. 10 to 18	4 @—
Sheet No. 14 to 20	5 @—
Sheet No. 24 to 27	5½@—

COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb.

Sheathing ₱ lb	.32 @34
Sheathing, Old	.25 @35
Sheathing, Yell	.32 @—
Sheathing, Old Yell	.12 @—
Bolts	—@—
Composition Nails	.30 @32

TIN PLATES.—Duty: 2½c ₱ lb.

Plates, Charcoal, IX ₱ box	.10 @11
Plates, I C Charcoal	9 @10½
Roofing Plates	8 @ 9½
Banca Tin Slabs, ₱ lb	.41 @42½

STEEL.—English Cast Steel, ₱ lb. 12½@16

QUICK-SILVER.—Per lb. —@65

For export	.55 @—
ZINC.—Sheets ₱ lb	9½@10
LEAD.—Pig ₱ lb	6½@—
Sheet	.10 @—
Pipe	.10 @—
Bar	9½@10

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1852. 1865.

Thirteenth Year of Publication.

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The highest priced labor outside of this Union is that of Canada—next highest in price comes that of Europe. The wages of the Mexican peon are miserably small—the people of India are satisfied with a dollar a month—wages in Africa are little if any higher—the Cuban negro receives even less of food and clothing than has generally been given in our Southern States.

A large portion of the Confederate debt repudiates itself. It was made payable, "three years after the treaty of peace is signed between the United States and the Confederate States of America."

The vicissitudes of a sailor's life are painfully exhibited in the recent returns to the English Board of Trade. Of forty-seven thousand seamen whose names are recorded during the twelve years ending 1864, no less than twenty thousand died from drowning, and more than two thousand from accidents of various kinds.

An oil well near Vernon, Ind., has caught fire, and burns with a blaze of about twelve feet in hight, accompanied with dull explosions at short intervals.

SANTA CLARA COLLEGE, S. J.,

SANTA CLARA, CAL.

Conducted by the Fathers of the Society of Jesus.

The FIFTEENTH ANNUAL SESSION of this College will commence on

Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $350

For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco.
3vII REV. A. MASNATA, S. J., President.

SAN JOSE INSTITUTE

—AND—

COMMERCIAL COLLEGE,

LOCATED AT SAN JOSE, CAL.

MALE AND FEMALE.

The next session of this Institution will commence on

Monday, July 31, 1865.

An experienced and competent BOARD OF INSTRUCTION is engaged, and every facility will be afforded for a thorough course of study, both in the Academic and Commercial Departments.

Catalogues, containing full particulars, furnished upon application to F. GATES, Director,
25v10-3m San Jose, Cal.

BLASTING

POWDER.

EDWARD H. PARKER,

No. 224 California Street,

Agent of the

Hazard Powder Company.

EUREKA

PATENT BLASTING POWDER.

Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets.

Room No. 9, with San Francisco Chemical Works.

CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2v11qy

PREMIUMS.

1st Premium, at Sacramento Fair.....1862

1st Premium, at S. F. Bay District....1862

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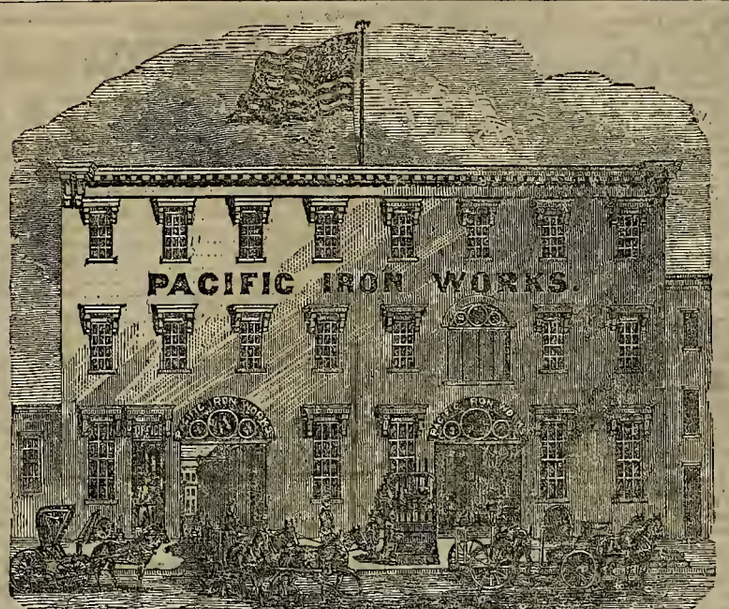
1st Premium, at San Francisco.....1864

1st Premium, for Cordials.....1864

1st Premium, for Hygienic Bitters....1864

Awarded to

V. SQUARZA.



THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting machinery of the most approved construction, Flour, Saw and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully solicited.

GODDARD & COMPANY.

Machinists and Foundries.

FULTON

FOUNDRY AND IRON WORKS.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

MINERS' FOUNDRY

—AND—

MACHINE WORKS,

First St., between Howard and Folsom Streets,

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EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as

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Machinery, Mining Pumps, Amalgamators,

Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.

All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.

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JOHN LOCHHEAD'S

STEAM ENGINE WORKS,

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Steam Engines of every description built to order—Marine, Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer.

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GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to. Prices moderate. ☜

No. 125 First street, opposite Minna next door to Pacific Foundry. j2tf

Removed from Oregon street, between Front and Davis.

Vulcan Iron Works Company

[ESTABLISHED 1850.]

First, Natoma and Fremont Streets.

IRON FOUNDERS,

Steam Engine and Locomotive

BUILDERS,

Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as

Mining, Steamship, and Steamboat Machinery,

Railroad Machinery, Locomotives, Car Trucks, Car Wheels, Housings and Irons; and Flouring Mills, Quartz Mills, Sugar Mills, Saw Mills,

Manufacturing Machinery of Every Kind.

Sole Manufacturers of

HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR

BETH'S AMALGAMATOR;

HERSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;

BAUX & GUIOO'S AMALGAMATOR AND SEPARATOR;

FAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;

JONVAL'S IMPROVED WATER WHEEL;

STEVEN'S PISTON PACKING RINGS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.

Quartz Stnupers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

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GEORGE T. PRACY,

Machinist and Blacksmith.

STEAM ENGINE, FLOUR AND SAW MILL

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

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OPPOSITE MECHANICS' MILL,

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LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.

UNION IRON WORKS!

Corner First and Mission streets,

SAN FRANCISCO.

ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.

Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter.

Boilers.

Locomotive, Flue, Tubular, Upright, Cylinder and Cornish.

Amalgamating Machinery.

Wheeler & Randall's improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Boldin's pan, Veatch's tubs, Prater's concentrators, Wahlee's pans, Beers' pan, German Barrels, Arrastra Gearing, Chile Mills, Coleman's Crushers, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

Quartz Screens.

We are prepared to furnish both punch and slotted, from the finest to the coarsest numbers, of the best quality Russia Iron.

All work done in the best manner at the lowest cash prices.

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PALMER, KNOX & CO.,

Golden State Iron Works,

Nos. 19, 21, 23 and 25 First Street,

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MANUFACTURE ALL KINDS OF

MACHINERY,

STEAM ENGINES AND QUARTZ MILLS

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S

NEW GRINDER AND AMALGAMATOR,

HEPBURN & PETERSON'S

AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies.

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13vDqy-tf

IDAHO MACHINE SHOP

—AND—

IRON WORKS,

D. C. HALL.....PROPRIETOR.

No. 9 First Street, San Francisco.

MANUFACTURE TO ORDER

STEAM ENGINES, BOILERS,

FLOUR AND SAW MILLS,

And every description of Machinery, including

ALL KINDS OF BRASS AND IRON WORK

Adapted to every department of Mining and Mechanics.

N. B.—The manufacture of QUARTZ MILLS are made a speciality, and all work done at the above Works guaranteed of the best material and workmanship.

☞ DON'T MISTAKE THE PLACE.

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UNION IRON WORKS,

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WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Front Street, between N and O streets,

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NOVELTY IRON WORKS,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a SURE REMEDY. Send for a Circular.

E. T. STEEN.

39 and 41 Fremont, and 42 and 44 Benle Sts.,

SAN FRANCISCO. 21v9tfq

IMPORTANT MEDICAL EXPERIMENTS.—Among the recent discoveries noted, are new methods of administering remedies. These as a class are generally, perhaps too generally, viewed with suspicion by the faculty as so many new forms of empirical speciality in treatment. The error, however, is not in examining but in too hastily or exclusively adopting new methods. Every lover of true science yields to a false professional pride who forgets that the injunction "Hold fast that which is good," comes after the precept to "prove all things." Both the above new classes are under the general rank of progress aiming to reach the circulating system by some other channel than the digestion. In one small sprinje discharges the medicine through a sharp pointed nozzle that punctures the skin and injects the prescribed quantity much after the manner of a snake bite, or the sting of an insect, the discoverer claiming that the proof of the noxious influence so readily communicated, furnishes the hint that remedial results may be similarly reached. The other discovery indulges in the honorous title "Nephetherupy," and consists of reducing the remedial agent to a cloud or spray to be inhaled; a modification of the familar vapor system, and is applicable to all classes of liquid medicinal preparations, especially in throat and lung diseases.

FEMALE ASTRONOMER.—Miss Maria Mitchell is to be Professor of Astronomy in the Vassar Female College, in Poughkeepsie—a position which her acquirements in science admirably fit her to fill. She is widely known in the scientific world as the discoverer of a comet known by her name and for which she received a gold medal from the King of Denmark, together with the still more honorable approbation of the savans of Europe.

AN international exhibition of fish will be held at Bergen, the coming summer, embracing fish of all kinds from the whale to the minnow, fishing tackle, preservatives of fish, models of boats, barrels, boxes, &c.; and it is believed that our own fishermen will appear at it.

AN "Exhibiton of Insects" is to be the next novelty in Paris.

MINING LAWS AND FORMS.

Third Edition revised and enlarged.

Compiled by H. B. CONGDON.

THIS Edition contains all the laws of the *STATE OF CALIFORNIA* and *NEVADA TERRITORY*, relative to Mining Corporations together with the Mining Ordinances of Mexico, complete; Digest of Decisions of the Supreme Court; Forms etc. 16 mo. flexible cloth, 192 pp. $2.50.

Published by H. H. BANCROFT & CO.

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R. WEGENER,

Accountant and Mining Secretary,

Has removed to

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Between Sacramento and California sts.,

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NEW YORK PRICES.

WATCH REPAIRING AT NEW YORK PRICES.

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AMERICAN WATCH FACTORY.

A large assortment of these

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ENGLISH AND SWISS WATCHES,

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The American Company are now making

VERY FINE WATCHES FOR LADIES.

☞ A large assortment of Gold Chains and Jewelry. 25v10-6m

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LEHIGH COAL.

200 Tons Large Lump Lehigh Coal

Now on Hand.

I am also in coostant receipt of

LEHIGH COAL,

And will be able to supply it always

At the Lowest Market Price.

JAMES R. DOYLE,

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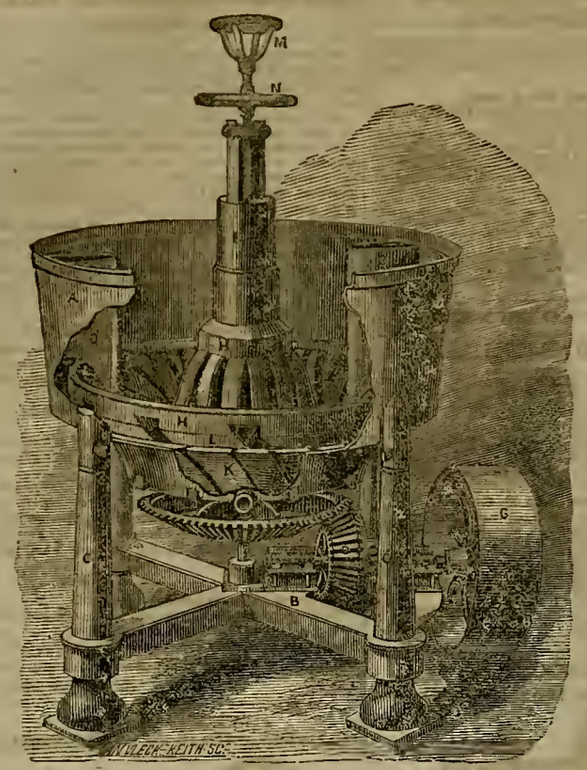


THE

WHEELER & RANDALL Grinder and Amalgamator.

In the engraving herewith exhibited, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Plates.

The attention of the Public is respectfully called to these facts:

1st. That the Mechanical work accomplished by differently formed grinding plates, having the same diameter, weight, hardness, and revolving at the same velocity, is as follows, to wit:

The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory-formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

2d. That as a whole, the Wheeler & Randall Grinder and Amalgamator is one of the most simple, compact, substantial, convenient and efficient pans in use.

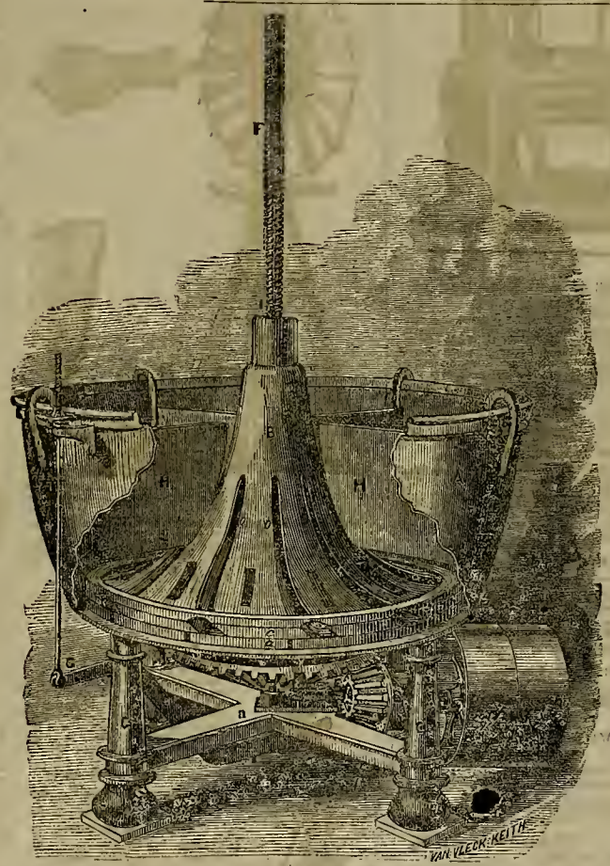
☞ Patent applied for.

MANUFACTURED AT

GOLDEN STATE IRON WORKS.....San Francisco.
UNION IRON WORKS..... "
MINERS' FOUNDRY..... "
SAN FRANCISCO FOUNDRY..... "
PRESCOTT & SCHEIDEL.....Marysville.
OREGON IRON WORKS.....Portland, Oregon.

WHEELER & RANDALL, Inventors.

SAN FRANCISCO, JUNE 13, 1865.



THE EXCELSIOR GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity, "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

Union Iron Works and Golden State Iron Works,

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practice quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.

SAN FRANCISCO

CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

— OF —

MANILA CORDAGE,

FOR MINING PURPOSES.

— ALSO —

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

Hoisting Ropes for Deep Shafts,

— ALSO —

Lines for Ferry Boats,

Manufactured to Order.

Office at **TUBBS & CO.'S,**

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14v10

QUICKSILVER

FOR SALE BY

S. F. BUTTERWORTH,

Northwest cor. Battery and California sts.

v9-19 SAN FRANCISCO.

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSIT ON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compoood For Sale

That I have used with complete success in every instance, and without delaying the running of machinery, or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street, above First (opposite the Oriental Hotel), San Francisco

23v10

WE ARE NOW OFFERING OUR IMMENSE STOCK

— OF —

FINE CUSTOM MADE CLOTHING

— AND —

Gents' Furnishing Goods

AT PRICES THAT DEFY COMPETITION.

Our Stock of Clothing Consists of

ALL THE LATEST STYLES

BOTH OF MATERIAL AND FINISH.

A Large Assortment of

Trunks, Valises, Carpet Bags, Blankets, Etc

AT EXTREMELY LOW PRICES.

J. R. MEAD & CO.,

8v10 Cor. of Washington and Sansome streets.

Let it be Known.—When any of our readers respond (by letters of inquiry or by the purchase of articles) to advertisements found in our columns, they will confer a favor, not only upon us, but upon the advertiser, by mentioning the fact of having seen the notice in our paper

STATE SCHOOL FUND.—The total amount of State school money, says the California *Teacher*, apportioned for the year ending August 31st, 1865, is $168,956.67. The amount for 1864 was $132,217.86, being $36,738.81 less than the present year. In consequence of the decision of the Land Office, in Washington—that School Land Warrants located on unsurveyed Government lands are not valid, no interest has been paid the past year by the holders of such warrants. This will account for the fact that the School Fund is less than was anticipated.

BULLION.—The bullion shipments from the Gold Hill office of Wells, Fargo & Co. were $260,000 during the month of July.

Machinery.

ATTENTION, MINERS!

LINSCOTT'S PATENT CHAMBER DRILL.

Great Improving in Blasting.

W. B. LAKE

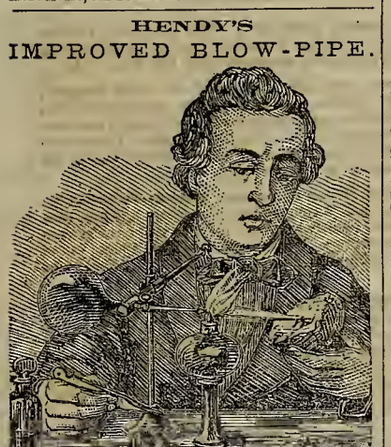
Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.

D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ⅛ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There arn but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

HENDY'S IMPROVED BLOW-PIPE.



This Convenient Helpmeet

—TO THE—

ASSAYER, CHEMIST, DENTIST, JEWELLER, PROSPECTOR AND MILLMAN,

Can now be procured, at the Patentee's price, by sending your orders, by mail or otherwise, to the

Office of the Mining and Scientific Press.

This article was more fully mentioned in the PRESS of April 15th, 1865. Since that time, however, Mr. Hendy has made a further improvement by attaching a rubber hose between the mouth-piece and the pipe, enabling the blower to change his position without disturbing the direction or constant accuracy of the current on the object upon which it is turned. The main portion of the blow-pipe is made with a joint, at which a valve is placed, which is opened when the operator blows and closed immediately when he ceases. By this arrangement the little bag or bladder is readily filled at a single breath, and with very little exertion. When so filled, a continuous current of air is forced from the nozzle of the pipe by the mere contractive force of the gutta percha. This force is uniform until the air is very nearly exhausted. The current may be easily varied or entirely cut off by gently pressing the fingers upon the neck of the bladder above the nipple to which it is attached.

Price, Complete.....$5.00.

CALL AND EXAMINE SAMPLES.

Sent by mail, if desired. Address

DEWEY & CO.,

16v10-tf No 505 Clay street, San Francisco.

HANSCOM'S CRUSHERS,

Made in sizes suitable for Breaking Quartz for Batteries; Rock for macadamizing or concrete; Copper Ore for sacking, sampling, or concentrating; also, for crushing Quartz for Arastras and Orinders. The small sizes make a most efficient Crusher for Prospectors, and are arranged to be run by Hand, Horse, Water or Steam Power. For further information address W. W. HANSCOM.

1 Golden State Iron Works, San Francisco.

Hepburn & Peterson's AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th. [Illustrated in the Mining and Scientific Press, April 9th, 1864.] HEPBURN & PETERSON.

nov8 3m*

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Crescelle Quartz Crusher; his Pulverizer; and his Improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. **B. FAUCHERY,** Engineer.

24v9

WM. BRUCKNER'S Furnace for Roasting Ores.

Now in Operation at 416 Market street.

This Furnace, which is portable, and can be carried on mule-back, undertakes to roast without employing any labor whatever for the operation of stirring, which is accomplished by machinery that may be driven by steam or any other motor. It consists of an iron cylinder, which, being suspended by chains, in rotating mixes and stirs the ore, by an internal apparatus, quicker and more perfectly than can be done in any other furnace hitherto known in metallurgy. It can be applied to any kind of ore, and the rapidity and perfectedness of its operation, the great saving in fuel, and the entire saving of the labor usually required for stirring the ore, together with the small cost of constructing it, renders this furnace a most

Economical and Practical Invention.

The Furnace may be had of two sizes—one being nine feet in length and holding fourteen hundred pounds, and the other six feet in length, and holding eight hundred pounds. One horse power is required to drive the machinery of the large sized furnace, and three-fourths of a horse-power for the smaller size. Parties wishing to erect such furnaces will please communicate to

W. BRUCKNER,

5v10 No. 416 Market street, San Francisco.

BLAKE'S QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA, WASHOE, ENGLAND, FRANCE,

—AND—

THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,

Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.

4v10

VARNEY'S PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Settlers made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and settlers for themselves, at the **PACIFIC FOUNDRY,**

1v10 San Francisco.

THE HAMMER QUARTZ MILL.

[PATENT APPLIED FOR.]

This Machine is now complete and ready for sale. In constructing it, our aim has been to produce a light, cheap and economical Crusher—one adapted to mining on a small as well as on a large scale.

The elementary principle on which it operates is that of the stamp—the only one really reliable and economical.

But the stamp has many serious disadvantages, among which are its great weight and small velocity; the great power required to run it; difficulty in feeding properly; imperfect discharge, and the necessity of crushing wet, or the annoyance from dust in crushing dry.

All these difficulties are obviated in our machine, and the percussive blow of the stamp retained, with the further advantage of its being a drawing or grinding one.

We give to our hammers such absolute or relative weight and velocity as we choose—just such as to effect their purpose and no more—thus securing the qualities of the natural hammer blow.

The feed is self-adjusting and uniform, and as fast as the ore reaches the required degree of fineness (which depends upon the fineness of the screen or sieve used), it is instantly discharged, so that there is no packing of the ore under the hammers.

The mill crushes dry, with no more dust than that incident to feeding, which is trifling.

As the only support of the mortar is a single post set into the ground, the machine can be put in place at slight expense.

The size now being built weighs about 1,800 pounds complete; the heaviest piece not weighing over 275 pounds. It is driven by half a horse-power, and crushes from three to ten tons per day of twenty-four hours per day, according to the character of the rock and the fineness to which it is reduced.

PRICE,.....$800.

Larger ones will be furnished if desired.

We invite an inspection of the Mill now in operation adjoining the Foundry of DEVOE, DINSMORE & CO., on Fremont street, between Market and Mission, San Francisco.

Office, No. 11 Court Block, San Francisco, Cal.

21v10 **RIX & LOGAN.**

ATWOOD'S Self-Regulating Windmill.

This Windmill is the most perfect self-regulator yet invented, and is capable of being adjusted to any desired speed. Manufactured at

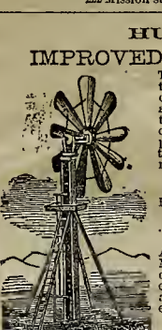
222 Mission Street, North side, below Beale,

SAN FRANCISCO.

N. B.—We also manufacture DICKERSON'S SELF-REGULATING MILLS; also, Rotary and Stationary Mills of different styles and prices, varying from $50 to $500 each; also round and square Water Tanks made to order.

222 Mission street, below Beale. 5

HUNT'S IMPROVED WIND-MILL.



THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN

HORSE POWER

For Sawing Wood.

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,

No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

HUNT'S PATENT Circular Sweep Horse-Powers,

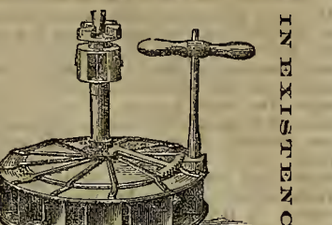
For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,

4v10 128 Second street, San Francisco.

Equal to the Best Overshot Wheel IN EXISTENCE.



LEFFEL'S AMERICAN DOUBLE TURBINE.

The DOUBLE TURBINES, so long expected, have arrived at last, and orders can now be filled. We have a large supply of the different sizes, from 40 inches to 20½. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

The above Wheel will be exhibited during the Fair of the Mechanics' Institute, where all may see it and hear its merits explained. This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 400 to 600 pounds will yield from 10 to 400 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to

LEFFEL & MYERS,

4v11-tf Care RICHARDS & MCCRACKEN, San Francisco.

TO QUARTZ MINERS.

Hinkle's Centrifugal Pulverizer and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUGAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steen, Nos. 37 & 39 Fremont street, between Market and Mission streets.

This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine, made entirely of Iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

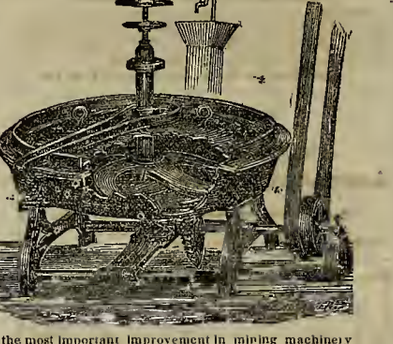
Mr. Hanson, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 50 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to

PHILIP HINKLE,

At the Novelty Iron Works, Nos. 37 & 39 Fremont street. 15-1m

BAUX & GUIOD'S Separator & Amalgamator



Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the milling power required to work them; They can be attached to any ordinary crushing apparatus.

Lapidaries' refuse, Refiners' ashes, Jewelers' sweepings, purchased or worked for a percentage. Ores and tailings worked or assayed at reasonable rates.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Heugh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,

Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8

McCOMB'S CUMULATIVE POWER PRESS AND ARROW TIE.

E. C McCOMB, Agent.

No. 1 Government House, cor. Sansome and Washington sts. 23v10 3m

NOTICE.

The undersigned having purchased the EXCLUSIVE RIGHT in and for the State of California, for the

Manufacture and Sale of WINHAM'S PATENT HOSE COUPLING,

Hereby caution all parties against the manufacture or purchase of the above Hose Couplings, except through us, as any infringement will be prosecuted to the full extent of the law.

PRESCOTT & SCHEIDEL,

Marysville Foundry.

March 31st, 1865. 13v10-3m

New Mining Advertisements.

Continued Mining Advertisements will be found on other pages.

Bolinas Petroleum Company, Bolinas Township, Marin County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 20th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Baxter, E H	11	50	$12 50
Borker & Rosenfield	29	100	25 00
Colwell, Jess	15	50	12 50
Holden, Wm	13	50	12 50
Haxe, J G	18	50	12 50
Ingram, R	17	50	12 50
Rowe, E S	19	100	25 00
Thompkins, T B	8 9	50	12 50

And in accordance with law and an order of the Board of Trustees, made on the 5th day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the Company's office, No. 611 Clay street (Room 8), on the 19th day of August, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. L. KIRBY, Secretary.

Office, 611 Clay street, San Francisco. au5-3w

Eagle Quartz Mining Company, Amador County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 29th day of July 1865, an assessment of seventy-five (75) cents per share was levied upon the capital stock of said Company, payable on the 31st day of July, 1865, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 22d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

G. PARDOW, Secretary.

Office, 15 Montgomery Block. au5

First National Petroleum Company.

NOTICE.—A Meeting of the Stockholders of the First National Petroleum Company will be held on Tuesday, August 15th, 1865, at 2 o'clock P. M., at the office of the Company, No. 617 Montgomery street. By order of the Board of Trustees.

THOS. NEWCOMB, Secretary.

San Francisco, July 31, 1865. au5-2w

Imperatrice Eugenie Gold and Silver Mining Company—Location of Works: Blue Mountain Mining District, County of Calaveras, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 1st day of August, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 804 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 2d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 19th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

A. KOENIG, Secretary.

Office, 804 Montgomery street, San Francisco au5

La Victoire Copper Mining Company.

NOTICE TO CREDITORS.—All parties having claims against said Company up to August 1st, 1865, are requested to send copies of the said claims, without delay, to L. L. ROBINSON, Esq., Chairman of the Committee appointed by the stockholders, at their meeting of the 20th July, 1865. By order of the President.

C. FRANCIS PETRARCHI, Secretary.

Address Mr. L. L. ROBINSON, care of Messrs. Pioche & Bayerque, San Francisco. au5-2w

La Victoire Copper Mining Company.

The shareholders of the above Company are hereby notified that a general meeting of their body will take place on Saturday, the 19th day of August, 1865, at 10 o'clock A. M., at the office of Messrs. Pioche & Bayerque, for the purpose of transacting any and all business that may be brought before the meeting by any shareholder of said Company. By order of the President.

au5-2w C. FRANCIS PETRARCHI, Secretary.

La Libertad Gold and Silver Mining Company, Cacachilas District, Lower California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 27th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Samuel Pillsbury	36	20	$10 00
Samuel Pillsbury	37	20	10 00
Samuel Pillsbury	38	20	10 00
Samuel Pillsbury	39	10	5 00
Samuel Pillsbury	40	10	5 00
Samuel Pillsbury	41	10	5 00
Samuel Pillsbury	42	10	5 00
H L Chamberlain	142	90	45 00
Richard Coppitherns		5	2 50
John Eade	52	40	20 00
E Sawin	174	6	2 00
C Clark	32	5	2 50
A H Jordan	160	20	10 00
Clark Avery	164	5	2 50
E M Mallory	172	65	32 50
H L Chamberlain	not issued	32	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 27th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Edwards, Olney & Co., 626 Montgomery street, San Francisco, on Monday, the 21st day of August, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

WM. VALE, Secretary.

Office, 36 Exchange Building, northwest corner of Washington and Montgomery streets, San Francisco. au5-3w

Napa Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 24th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names	No. Certificates.	No. Shares.	Amount.
Allred, W C	not issued	190	$57 00
Adams, I S	78	5	3 00
Avery, J W	124	25	10 00
Arnold, Mrs B W	45	5	1 50
Berry, Geo	68	25	15 00
Berry, Geo	not issued	93½	56 00
Badger, Geo	69 70 71 72-5 ea	20	10 00
Bartlett, S A	73	10	5 00
Bartlett, S A	190	5	3 00
Bolluger, Francis	75	5	3 00
Barker, E M	135	5	3 00
Boyd, J T	141	50	24 60
Boyd, J T	142	18	10 80
Buchard, J C M	186	1	00
Coon, M R	not issued	35	21 00
Carlisle, H J B	112	10⅝	5 00
Darues, Mrs E A	47	10	6 00
Davis, Solon H	138	5	3 00
DeGraff, Wm	42	10	3 00
Egan, E D	159	5	3 00
Egan, E D	160 161 162 163 164 165-10 ea	60	36 00
Egan, E D	not issued	78¾	47 00
Eagles, Wm C	174	5	3 00
Ford, R H	120 127 123 129-5 ea	20	12 00
Ford, R H	175	2	1 20
Felker, Wm	184	5	3 00
Hawkins, H J	2	50	30 00
Hawkins, H J	5	10	5 00
Hargrave, E J	22 10-5 ea	10	6 00
Hay, Thomas	33 34 35 36 37 38 39 40-10 ea	80	48 00
Haire, Samuel	143	25	15 00
Haslie, Robert	183	5	3 00
Hall, Wm	188	5	3 00
Hanson, Iver	189	5	1 50
Kirk, Charles	not issued	100	30 00
Larson, C	8 10-20 ea	40	21 00
Larson, C	12 13 10 ea	20	12 00
Larson, C	not issued	35	21 00
McCormack, Jas	not issued	84	50 40
McMillan, Robert	61	5	3 00
Phillips, S S	108	15	6 50
Preston, J H	185	5	3 00
Robinson, I S S	58	5	2 00
Rhodes, Isaac	113 114 115 116 117-10 ea	50	30 00
Slaven, John	30 31-10 ea	20	10 00
Slaven, John	32	13	7 80
Stephens, Andrew	119	10	6 00
Townsend, Sarah	108	3	1 80
Victor, H C	177	10	6 00
Wheeler, W J	123	20	11 00
Wheeler, W J	not issued	150	90 00
Whitton, R J	46	5	3 00
Whitton, R J	98	10	6 00
Whitton, Wm H	99	25	15 00
Whitton, Wm H	102 103 106-5 ea	15	8 50
Whitton, Wm H	107	2¼	1 50
Waterman, E R	130	5	3 00
Winn, M	172	10	6 00
Wintbrop, M W	173	10	6 00
York, E M	202	1	60

And in accordance with law, and an order of the Board of Trustees, made on the 24th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Messrs. Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, on the 19th day of August, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. WARREN CLARK, Secretary.

Office, 410 Montgomery street, San Francisco. au5 3w

Paragon Petroleum Company.—Office, Room 28 Government House, corner Washington and Sansome streets, San Francisco, Cal.—Location of Mine: Mattolo District, Humboldt county, California.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 1st day of July, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Alden, R C	35	100	$30 00
Aldeu, R C	36	100	30 00
Ablen, R C	37	100	30 00
Brown, R G	29	50	15 00
Brown, R G	30	50	15 00
Brown, R G	31	50	15 00
Brown, R G	32	50	15 00
Byers, J M	70	50	15 00
Dyer, J P	83	200	00 00
Dewey, A T	64	100	30 00
Dewey, A T	65	70	21 00
Ewer, W B	66	100	30 00
Ewer, W B	67	70	21 00
Mills, J J	80	10	3 00
Osborne, H B	87	50	15 00
Pinkham, J F	2	20	6 00
Poland, F S	24	20	6 00
Poland, F S	25	20	0 00
Poland, F S	26	20	6 00
Poland, F S	27	20	6 00
Poland, F S	28	20	6 00
Smith, C W M	68	100	30 00
Smith, C W M	69	70	21 00
Waters, E D Jr	63	50	15 00
Waterman, E R	71	10	3 00
Waterman, E R	72	10	3 00
Waterman, E R	73	10	3 00
Waterman, E R	74	10	3 00
Waterman, E R	75	10	3 00

And in accordance with law, and an order of the Board of Trustees, made on the 1st day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the salesroom of Edwards, Olney &, Co., at No. 626 Montgomery street, San Francisco, on Saturday, the 19th day of August, 1865, at the hour of 10 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

D. S. CUTTER, Secretary.

Office, Room 28 Government House, corner Washington and Sansome streets, San Francisco, Cal. au5-3w

St. Clair Consolidated Mining Company, Smoky Valley District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 31st day of July, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

AUGUST KUNAST, Secretary.

Office, 540 Washington Street, au5

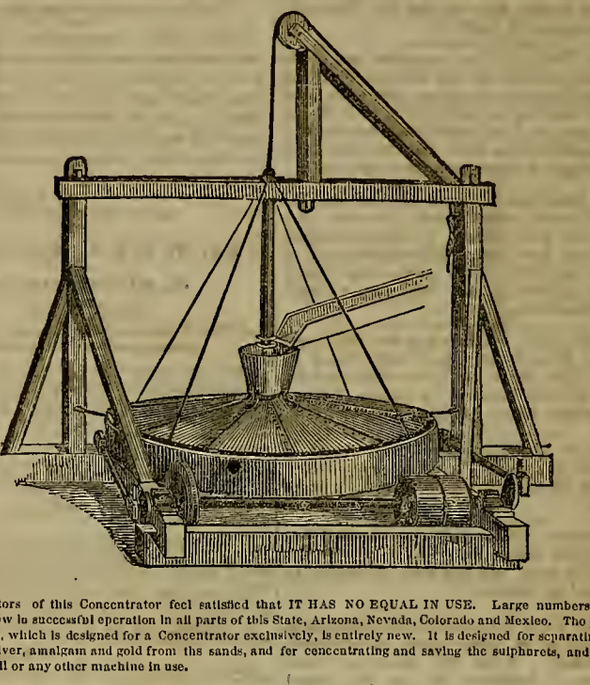
GOLD AND SILVER ORES.

UNDENIABLE FACTS FOR THE MINING PUBLIC.

At the Exhibition in the Fall of 1864, the Mechanics' Institute awarded a Premium to

E B. PRATER,

FOR THE BEST CONCENTRATOR.



The proprietors of this Concentrator feel satisfied that IT HAS NO EQUAL IN USE. Large numbers of these Machines are now in successful operation in all parts of this State, Arizona, Nevada, Colorado and Mexico. The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use.

One of these Concentrators can be seen in operation at Messrs. Kimbis & Murphy's Metallurgical Works, Bryant street, between Third and Fourth, San Francisco.

Circulars sent free, giving description and reference as to working, etc., on application to

HUNGERFORD & HENDY, Proprietors,

2v11-1am **Express Building, Room No. 3 (fourth floor) San Francisco.**

Yosemite Mining Company, Oro Fino District, Humboldt county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 3d day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Bonnett, E D	88	5	$6 25
Bonnett, E D	89	5	6 25
Cathers, James	1	100	125 00
Cathers, James	2	50	62 50
Cathers, James	3	50	62 50
Cathers, James	6	10	12 50
Cathers, James	7	10	12 50
Folsom, A	70	25	31 25
Folsom, A	71	25	31 25
Folsom, Mrs R A	87	25	31 25
Hedges, Wm H	49	5	6 25
Hedges, Wm H	60	15	18 75
Hedges, N M	61	35	43 75
Hanson, Chas	86	50	62 50
Potter, Theron	111	5	6 25
Potter, Theron	112	5	6 25

And in accordance with law, and an order of the Board of Trustees, made on the 3d day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on the 19th day of August, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

S. O. PUTNAM, Secretary.

Office, No. 402 Front street (up stairs), San Francisco. au6 3w

Pacific Mail Steamship Co.

This following Steamships will be dispatched on the following named days.

August 18th—SACRAMENTO.....Capt. E. S. Farnsworth

From Folsom street Wharf

At 11 o'clock A. M., punctually to the hour,

For Panama.

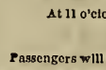
Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A Baggage Master will be sent through each trip.

Cabin passengers will be berthed for Atlantic steamer.

OLIVER ELDRIDGE, Agent.

Corner Sacramento and Leidesdorff sts.



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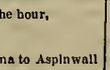

Extracting Without Pain.

Drs. Whitcomb & Dyer,

DENTISTS,

[Successors to W. H. Irwin.]

No. 205 Third Street, near Howard,

SAN FRANCISCO.

WILLIAM PENROSE,

Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,

Is prepared to buy in any quantity

COPPER, SILVER, GOLD, LEAD

AND OTHER VALUABLE ORES;

Also Lead Bars Containing Gold and Silver,

Full value paid on delivery in this City.

Address Lock Box No. 992, P. O., San Francisco. 25v10

Copper, Lead, Gold, Silver, Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,

Agent for Townshend, Wood & Co., Swansea,

No. 416 Battery Street, San Francisco. 15v10-3m

ORES WANTED.

Gold, Silver and Lead Ores Purchased,

OR WORKED BY SMELTING OR AMALGAMATING,

At my Metallurgical Works in the City

Assay Charges for Ore.....Only $2.50

Apply to **J. MOSHEIMER,**

14v10-1m 338 Montgomery Street, San Francisco

MARTIN & CO.,

Office, Stevenson House,

Corner California and Montgomery streets (up stairs).

WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES,

Assaying eight per cent. and upwards of Copper to the ton.

We will make advances upon Ores of Copper.

San Francisco, Post Office Box 1259. 22v10

To Prospectors.

THE Directors of the San Francisco PACIFIC METALLURGICAL WORKS offer the following inducements to Prospectors:

NOTICE.—Knowing it will benefit our country to have it well prospected, we agree, if any party will forward us samples of minerals of any kind for assay, express paid, inclose TWO DOLLARS for the same, to return them a correct assay, with the best method of working, and feasibility of having the same worked in this city.

WORKS—North Beach. OFFICE—511 Sacramento street. Box 511, Post Office, San Francisco. [v9-20tf

Steamers now run about once a day to Europe, on an avarage, and yet of these forty and more there is not one belonging to an American company. The Collin's line (American) lost three steamers, while the Cunard line never lost any. American enterprise ought to remedy this unnational conditiou of affairs.

An old grave was recently opened at the Isle of Shoals, off the coast of New Hampshire, and from the contents of a bottle in which was a strip of parchment; it was found to contain the body of one of the attendants of John Smith, who was the first discoverer of the region, in 1603.

The Portland *Press* says that one of the physicians of that city had amputated the leg of a girl fourteen years of age, where the lower portion including the ankle joint, with all the fleshy parts, even to the skin, had been changed or transformed to n solid rock-like substance, and enlarged to three times its natural size.

Two Chinamen, who have been at work on Perkin's ranch, near Oakland, for some years past, have just returned to China, carrying with them some eighty different varieties of garden vegetable seeds, which they intend planting in Celestial soil. Who says "John" is not progressing.

Failed Again.—The jury in the Ophir and Burning Moscow case has again failed to agree. They stood six for the Ophir and six for the Burning Moscow. A change of venue to Esmeralda county has been granted.

A flash of lightning entered a store in Rockville, Conn., and lit an oil lamp, which remained burning, leaving no other mark of its course.

A starving laboror in Vienna lately killed his two little daughters in his frenzy at their prayers for bread, and has been sentenced to be hanged for the deed.

Henry Ward Beecher's congregation have contracted for an organ worth twenty thousand dollars. What will those poor little heathens of Timbuctoo do for red flannel shirts?

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the developaieat of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 16, 1865. 11v10-tf

PARAGON PETROLEUM COMPANY.

Incorporated June 2, 1865,

Under the Laws of the State of California.

CAPITAL STOCK,

$600,000.

NO. SHARES.....6,000

Par Value.....$100

OFFICERS:

President.....ROBERT KIRK

Trensurer.....WM. H. TOBEY

Secretary.....D. S. CUTTER

TRUSTEES:

ROBERT KIRK, T. G. OUFF, WM. H. TOBEY.

OFFICE:

At WM. H. TOBEY & CO.'S Petroleum Agency, Room No. 28 Government House, corner of Sansome and Washington streets, San Francisco.

The claims of this Company consist of One Hundred and Sixty (160) Acres of oil land, favorably located on the North Fork of the Mattole river, adjoining the grounds of the Union Mattole Company, Mattole District, Humboldt county, California. The Company are now actively engaged in the development of the claims.

San Francisco, June 14, 1865. 24v10

KELLOG CREEK PETROLEUM AND MINING COMPANY.

INCORPORATED JULY 11TH, 1865,

Under the Laws of the State of California.

NO. SHARES.....10,000

Par Value.....$50 00

W. F. BRANDRETH.....President

J. M. BUFFINGTON.....Secretary and Treasurer

Office—Room No. 10 Government House, corner of Sansome and Washington Sts., San Francisco.

The claims of this Company consists of SIX HUNDRED AND FORTY (640) ACRES, situated on Kellog Creek, in the Marsh Creek Mining District, Contra Costa county, Cal.

One thousaad (1,000) shares of the contiugent fund is offered at the low price of ONE ($1.00) DOLLAR per share, full paid, all the stock being unassessable. All who wish to purchase, or make any enquiry concerning the Company, will please call on the Secretary,

J. M. BUFFINGTON,
2v11 Corner of Sansome and Washington streets.

OIL WELL BORING.

J. SEVENOAKS,

Contractor

For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Santa Cruz, Cal. 2v11

"Say, why should man for thirst he given
If not for wine bestowed by Heaven
To quench such drought as mine?
Without it, I'm a fish on land,
A barren heap of parching sand—
Then give me joyous wine."—*Trinklied.*

Delicacy of flavor, exhilaration without intoxication, and every other desirable property belonging to the rightly fermented Juice of the Grape, are to be found in the "Gerke Wine," from the celebrated Bosquejo Vineyard, Tehama county.

There is no wine produced in California that can bear comparison with this, and it would be difficult to find a European wine, of the same class, that can surpass it.

The vintage of 1862 is now offered for sale, in quantities to suit, by the Agent of the vineyard,

A. S. LOWNDES,

Basement of the New York Hotel, southwest corner Battery and Commercial streets, San Francisco. 20v10-ly

Mining Notices--Continued.

New Mining Advertisements to be found on another page.

Bella Vista Gold and Silver Mining Company, Cacachillas District, Lower California.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 25th day of June, 1855, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
A Cameron	118 119 120 121 122 123 124 167	65	$16 25
Mr J Collins	19	5	1 25
J E Abbott	62	50	12 50
Chas Phelps	97	6	1 50
Theo Neiborn	140 141	18	4 50
James Sherry	156	18	4 50
John Dunn	168	10	2 50
J R Kucuzi	170	10	2 50
S B Thompson	171 189 191	125	31 25

And in accordance with law and aa order of the Board of Trustees, made on the 25th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on the 12th day of August, 1855, at the hour of 11 o'clock A. M of said day, to pay said delinquent assessmeat thereon, together with costs of advertising and expenses of sale

J. FULLER, Secretary.

Office, 325 Clay street, San Francisco. jy29-3w

Camargo (Eclipse) Gold and Silver Mining Company, Reese River Mining District, Lander Co., Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 17th day of July, 1865, an assessment of five ($5) dollars per share, in United States Legal Tender Notes, was levied upon the capital stock of said Company, payable at once, to the Secretary, at his office, or to W. B. C. Harker, Superintendent, at Austin, Nevada.

Any stock upon which said assessment shall remain unpaid on the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 6th day of September, 1865, to pay the delinquent assessment, together with costs of advertislag and expenses of sale.

WM. T. REYNOLDS, Secretary.

Office, 423 Front street, San Francisco. jy22

Chloride Ledge Gold and Silver Mining Company. Location of Mine: Blue Mountain District, Calaveras county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 11th day of July, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, No. 606 Montgomery street, San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. H. SMITH, Secretary.

Office, No. 606 Montgomery street, San Francisco. jy15

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Easternagencies.

Cherokee Gold and Silver Mining Company, Echo District, Humboldt county, Nevada.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 23d day of June, 1855, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
J R Colburn	104	40	$30 00
J R Colburn	105	18	13 50
J R Colburn	106	15	11 25
J R Colburn	108	10	7 50
J R Colburn	109	5	3 75
J R Colburn	110	2	1 50
G Chittenden	8	5	3 75
— Washburn	10	25	18 75
J P Spaulding	11	55	41 25
G Viets	52	80	60 00
G T Sewall	16	25	18 75
J H Gager	18	25	18 75
M W Lake	24	25	18 75
N B Terwilliger	28	5	3 75
S Peneton	29	1	75
S Howard	30	2	1 50
V Baron	31	10	7 50
S A Anderson	33	1	75
R Gardner	50	10	7 50
J B Murphy	93	25	18 75
O A Wager	90	5	3 75
H Powell	89	5	3 75
H Horstman & Co	92	4	3 00
Joseph Dardano	96	15	11 25
S W Raveley	111	4	3 00
E Chevassus	109	554	415 50
T Ogg Shaw	94	3	2 25
T Ogg Shaw	95	3	2 25
T Ogg Shaw	103	75	56 25
Wm Troop	26	28	21 00
Wm Troop	60	20	15 00
Wm Troop 56 57 59 60 66 71 72 73 74 76 77 78 70 80	55 75 81		
Wm Troop 82 63 84 85 86	25 ea 550		412 50
Wm Troop	210	51	38 25
A R Colburn	5 67	25 ca 50	37 50
A R Colburn	0 87	68-5 ea 15	11 25
A K Colburn	91	2	1 50
A K Colburn	97	10	7 50
A K Colburn	69	20	15 00
J L Dawns	34 35 36	37-10 ea 40	30 00
J L Dawns	38	15	11 25
L Franconi	206	554	415 50
L Franconi	208	446	334 50
W S Emery	39	100	75 00
W S Emery	40 41	42 10 ea 30	22 50
W S Emery	43	5	3 75
W S Emery	45	6	4 50
W S Emery	40	7	5 25
W S Emery	48	3	2 25
W S Emery	49	2	1 50
M H Fry	99 100	25 ca 50	37 50
M H Fry	101	20	15 00
M H Fry	102	5	3 75
M H Fry	114	4	3 00
W Brokaw 119 120 121	122-25 ca 100		75 00
W Brokaw	123	19	14 25

And in accordaace with law, and an order of the Board of Trustees, made on the 23d day of June, 1855, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on Saturday, the 12th day of August, 1865, at the hour of 12 o'clock M. of said day, to pay said deliaquent assessment thereon, together with costs of advertising and expenses of sale.

L. FRANCONI, Secretary.

Office, northeast corner of Montgomery and Jackson streets (Room No. 15), San Francisco. jy29-3w

Postponement.—The above sale is hereby postponed until Tuesday, August 22d, 1865, at the same hour and place. By order of the Board of Trustees.

L. FRANCONI, Secretary.

San Francisco, August 4th, 1865. au5

El Dorado Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 5th day of June, 1855, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Avery, J W	152	50	$35 00
Addison, J H	150	5	3 50
Adams, I S	214	10	7 00
Baker, C	112	5	3 50
Brown, I S	103	10	7 00
Bartlett, S A	107 108 105 109 110 62 63 64	65-5 ea 45	45 00
Bartlett, S A	60	61-10 ea 20	20 00
Bartlett, S A	not issued and 66 67 68	69 20 ea 100	100 00
Bartlett, S A	70	22	22 00
Bartlett, J A	155	10	10 00
Budington, W	210	25	25 00
Curran, B	150	10	bal 2 00
Castle, Mrs M J	213	10	bal 2 00
Coager, Thomas	164	125	87 50
Collins, G L	33 34	36 25 ca 75	37 00
Cooper, Frank 1 2 3 4 138 139 140 141	5 ea 40		40 00
Cooper, Frank	5 7 8 10 ea 30		30 00
Cooper, Frank 9 9 10	11 20 ea 60		80 00
Cooper, Frank	12	30	30 00
Cooper, A S	20	10	10 00
Cooper, A S	21	22 50 ea 40	40 00
Cooper, A S	23	24-25 ca 50	50 00
Cooper, A S	25	25 50 ca 100	100 00
Davis, S H	175	5	3 50
Dougherty, Phehe	189 190 191	192-10 ca 40	28 00
Dougherty, Ezra	195	10	7 00
Eagler, Wm C	205	5	3 50
Ford, R H	45	25	21 00
Fisher, B C	147	5	3 60
French, L E	160	5	3 50
Felker, W	211	5	3 50
Gardner, C A	143	10	2 00
Goodwin, Mrs R J	216	10	2 00
Gray, John	198	50	35 00
Gray, John	199	25	17 50
Gray, John	200 201 202 203 204	10 ea 50	35 00
Gould, A J	167 166	25 ea 50	35 00
Hill, John	171 172 173	50 ca 150	140 00
Houston, G D	180	6¾	4 70
Hall, E	163	10	7 00
Irving, David	183	2	1 40
Liddy, Catherine	71	10	2 00
Larson, Henry	184	10	7 00
Morgan, Benj	74	10	7 00
McMillan, Robert	100	5	3 50
Mason, A	161	5	3 50
Miller, F S	165	3	3 00
McPyke, H W	182	10	7 00
Otis, G H	156	2	2 00
Otis, G H	177 176 179	1 ea 3	3 00
Parsons, G H	79 152	5 ea 10	7 50
Porter, F F	174	25	17 50
Preston, J H	212	5	3 50
Scott, H D	120	5	4 50
Scott, H D	17	15	13 50
Scott, H D	13 14	18-25 ea 75	67 50
Staples, A F	102	5	1 00
Scott, Wm	148	5	3 50
Sinclare, A	181	3½	2 35
Swinerton, O E	217	3	60
Sutherland, John	196	5	2 75
Sutherland, John	not issued and 116 117	10 ca 30	15 50
Treat, D W	78	50	39 00
Treat, D W 82 83 85 86 88 89 90 91	87 and not issued	10 ca 100	90 00
Tornson, S W	128	10	7 00
Thoburn, Thomas	120	10	7 00
Toleman, O G	101	5	1 00
Victory, John	130	10	7 00
Victory Eliza E	187	2	1 40
Victory, Louisa	188	2	1 40
Victory, John J	185	2	1 40
Victory, Louisa M	186	2	1 40
Wadsworth, Frank	27 31-25 ea	50	50 00
Wadsworth, Frank	20	15	12 45
Wadsworth, Frank	153	20	16 75
Whitton, R J	131	10	10 00
Whittoa, M S	134	10	3 00
Whittoa, Wm H	125	10	10 00
Weir, James	151	5	3 50
Wait, George	158	10	7 00
Waterman, E R	176	5	3 50
Wood, A B	209	5	3 50
Wina, M	197	10	7 00
Young, Henry	208	5	3 50

And in accordance with law and an order of the Board of Trustees, made on the 5th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the office of Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, Cal., on the 7th day of August, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expeaaes of sale.

J. WARREN CLARK, Secretary.

Office, 410 Montgomery street, San Francisco. jy22

Postponement.—The above sale is hereby postponed until August 14th, 1865, at the same hour and place. By order of the Board of Trustees.

jy29 J. WARREN CLARK, Secretary.

Emilia Mining Company, State of Guerrero, Mexico.

Notice.—There are deliaquent upon the following described stock, on account of assessment levied on the 26th day of June, 1865, the several amounts set opposite the oames of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Bepler, Justus	74	100	$50 00
Biley, A F	4	20	10 00
Biley, A F	5	20	10 00
Dorgeloh, L	9	40	20 00
Ewald, A	38	20	10 00
Knight, E F	121	15	7 50
McLeran, T G	17	50	25 00
McLeran, T G	143	50	25 00
McLeran, T G	145	30	15 00
McLeran, T G	146	50	25 00
Merrill, A	144	50	25 00
Reibenstein, F	113	25	12 50
Roemer, C	18	25	12 50
Sesser, P	26	20	10 00
Sesser, P	33	30	15 00
Strohl, P	170	45	22 50
Traxell, Wm	72	30	15 00
Traxell, Wm	225	15	7 50

And in accordance with law, and an order of the Board of Trustees, made on the 26th day of June, 1855, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Edwards, Olney & Co., at 626 Montgomery street, San Francisco, on Saturday, the 12th day of August, 1865, at the hour of 12 o'clock M of said day, to pay said delinquent assessment thereon together with costs of advertising and expeaaes of sale.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, southeast corner of Montgomery and Washington streets. Office hours: 10 A. M. to 4 P. M.

San Francisco, July 29, 1865. jy29-3w

Great Western Tunnel and Mining Company, Auroru, Nevada.

Notice is horchy given, that at a meeting of the Board of Trustees of said company, held on the 27th day of July, 1865, an assessment of ten (10) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

JOS. C. FORD, Secretary.

Office, No. 20 Exchange Building, corner Washington and Montgomery streets, San Francisco. jy29

Office of the Globe Gold and Silver Mining Company, San Francisco.—Location: Monitor Mining District, Alpine county, California.

Notice.—There will be an Annual Meeting of the stockholders of the Globo Gold and Silver Mining Company, at the office of said Company, 410 Montgomery street, in the city and county of San Francisco, on the 21st day of August, 1865, at 2 o'clock P. M., for the purpose of electing Trustees and for the transaction of such other business as may be brought before the stockholders.

LEVI MILLER, President.
WM. HA NAH, } Trustees.
jy22-4w J. S. POWERS, }

George Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Assessment No. 6.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, or to S. A. Hawkins, Superintendent, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, 410 Montgomery street, San Francisco. jy15

Good Hope Gold and Silver Mining Company, Alpine District, Alpine County, Cal.

Notice is hereby given that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an Assessment of fifty cents per share was levied upon the Capital Stock of said Company, payable on or before the 7th day of August, 1865, in United States gold and silver coin, to the Secretary, at his office, or to H. MORRIS, in Markleeville. [*Delinquents will be held for accruing costs after that date.*]

Any stock upon which said Assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

PRESTON MORRIS, Secretary.

Office, 526 Montgomery street, San Francisco. jy15

Hancom Copper Mining Company, Low Divide District, Del Norte County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 25th day of July, 1865, an assessment of fifteen (15) cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 12th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

S. S. SWEET, Secretary.

Office, 609 Market street, San Francisco. jy29

Hallock Gold and Silver Mining Company— Location of Works: Great Mogul Mining District, county of Alpine, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of July, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 311 Commercial street, San Francisco, or to M. SCOTT, Mogul, Alpine county, Cal.

Any stock upon which said assessment shall remain unpaid on the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 26th day of August, 1865, to pay the delinquent assessment, together with the costs of advertising and expenses of the sale.

H. B. FORESTER, Secretary.

Office, 311 Commercial street, San Francisco. jy15

Honest Miner Gold and Silver Mining Company, Reese River Mining District, Lander Co., Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of July, 1865, an assessment (No. 5) of fifty cents per share was levied on the 22d day of July, 1865, upon the capital stock of said Company, payable immediately, in gold coin of the United States, to the Secretary, at his office, No. 228 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 12th day of September, 1865, at 3 o'clock P. M., to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. A. DRINKHOUSE, Secretary.

Office, 228 Front street, San Francisco, Cal. jy21

Jewett Gold and Silver Mining Company.— Location of Works, at Gold Hill, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of July, 1865, an assessment of one dollar per share was levied upon the assessable capital stock of said Company, payable on the 22d day of July, 1865, in United States gold coin, to the Secretary, at the office of the Company, 609 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. M. BURNHAM, Secretary *pro tem.*

Office, 609 Clay street, San Francisco. jy22

Lord Byron Gold and Silver Mining Company, Devil's Gate District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of July, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 29th day of July, 1865 in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

H. B. CONGDON, Secretary.

Office, No. 620 Washington street (Room 5), San Francisco, California. jy29

La Victoire Copper Mining Company, of Hunter's Valley, Mariposa county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of three ($3) dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, 605 Merchant street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 28th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

G. FRANCIS PETRARCHI, Secretary.

Office of La Victoire C. M. Co., 605 Merchant street, San Francisco. jy15

Our Advertising Circular Will be furnished free on application to this office. Its contents are as follows:

Corporation Assessment Law of California.
Economy in Mining Advertising.
Table for Advertising Assessments on Saturdays.
Calendar for 1865–1866.
Information about Obtaining Patents.
Table of Distances on the Pacific Coast.

Mosquito Quartz Mining Company, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22d day of July, 1865, an assessment of five ($5) dollars per share (one dollar per foot), was levied upon the capital stock of said Company, payable on the 24th day of July, 1865, in United States gold coin, to the Secretary, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 15th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. PARDOW, Secretary.

Office, 15 Montgomery Block, San Francisco. jy29

Old Colony Silver Mining Company, Austin, Reese River Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of July, 1865, an assessment of five ($5) dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 523 Montgomery street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. O. HOWARD, Secretary.

Office, 523 Montgomery street, San Francisco. jy29

Paragon Petroleum Company, Mattole Mining District, Humboldt county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 1st day of July, 1865, an assessment of thirty cents per share was levied upon the assessable stock of said Company, payable on the third day of July, 1865, in United States gold and silver coin, to D. S. CUTTER, Secretary, room 28 Government House, corner Washington and Sansome streets, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 19th day of August, 1865, at 10 o'clock A. M., to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

jy15 D. S. CUTTER, Secretary.

Porter Gold and Silver Mining Company, Virginia District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of July, 1865, an assessment of five dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at 534 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. W. WESTON, Secretary.

Office, 534 Clay street, San Francisco. jy22

Rose Gold Mining Company, Mariposa County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 8th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
A Buetoll	103	8	$4 00
Chas P Cowles	114	150	75 00
F L Ham	126	5	2 50
I C Pray	100	10	5 00
I C Pray	144	50	25 00

And in accordance with law, and an order of the Board of Trustees, made on the 8th day of June, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, on the 5th day of August, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. M. PECK, Secretary.

Office, 338 Montgomery street, San Francisco. jy22

Sheba Gold and Silver Mining Company, Star District, Humboldt county, Nevada.—Office, 712 Montgomery street, San Francisco, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 8th day of May, 1865, an assessment of five dollars, and on March 14th, 1865, an assessment of five dollars, and on November 25th, 1864, an assessment of fifteen dollars per share, was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company.

Any stock upon which said assessments, or either of them, shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessments, or either of them, together with costs of advertising and expenses of sale. By order of the Board of Trustees, made on the 17th day of July, 1865.

S. T. KING, Secretary.

Office, 712 Montgomery street, San Francisco.

NOTICE.—The Board of Trustees of the Sheba Gold and Silver Mining Company, having been legally advised that the second postponement of sale of stock delinquent for above assessments, made on July 5th, 1865, was unauthorized by law, have ordered the publication to be begun anew, as above. (jy22) S. T. KING, Secretary.

Smoky Valley Gold and Silver Mining Company, Smoky Valley District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of one dollar and fifty cents per share was levied upon the capital stock of said company, payable on the 15th day of July, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, or to T. W. BRADLEY, Superintendent, at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 30th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. W. KNIGHT, Secretary.

Office, 36 Exchange Building, corner Washington and Montgomery streets, San Francisco. jy15

Sierra Nevada Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

ASSESSMENT No. 3.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July 1865, an assessment of seventy-five cents per share (being 25 cents per month for the months of May, June and July, 1865) was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, or to S. A. HAWKINS, Superintendent, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.

Office, 410 Montgomery street, San Francisco.

NOTICE.—At the above meeting of said Sierra Nevada Co., Assessment No. 1, levied July 8, 1863, for ten cents, and Assessment No. 2, levied November 1, 1864, for twenty-five cents per share, were and are hereby declared rescinded, and stockholders having paid said assessment, or any portion thereof, will be credited on above Assessment No. 3 accordingly.

jy15 J. WARREN CLARK, Secretary.

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander Co., Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of fifty (50c) cents per share was levied on the 15th day of July, 1865, upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, E. J. DRINKHOUSE, No. 228 Front street, San Francisco, or to GEO. T. TERRY, Austin, Lander county, Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 6th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

E. J. DRINKHOUSE, Secretary.

Office, No. 228 Front street, San Francisco. jy16

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine county, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 8th day of July, 1865, an assessment of sixty cents per share was levied upon the capital stock of said company, payable on the 10th day of July, 1865, in United States gold and silver coin, to the Secretary, at the company's office, No. 55 Montgomery Block, city and county of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, S. E. corner of Montgomery and Washington streets. Office hours: 10 A. M. to 4 P. M. San Francisco, July 8, 1865. jy15

Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 29th day of June, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Clapp, Mrs I. A K	37	7	$3 50
Clapp, Mrs L A K	150	13	0 50
Doherty, Mrs J C	327 328-6 ea	12	6 00
Dorland, Thomas	239	50	25 00
Doyle, James R	347	86	43 00
Geddis, Wm H	33	16	8 00
Geddis, Wm H	34 35 36 37 38-10 ea	50	25 00
Howell, James	56	7	3 50
Howell, James	325	270	135 00
Hale, Calvin H	165	5	2 50
Hale, Calvin H	336	20	10 00
Hinchboru, J E	190	15	7 50
Hausou, C	200	15	7 50
Johnson, John	351	25	12 50
Jeffries, M S	334	30	15 00
Minot, William	252	125	62 50
Mason, N H A	143	133	66 50
Nichols, Emily	218	5	2 50
Nichols, Wm N	143	133	66 50
Newby, Richard	240	57	28 50
Newby, Richard	246 301 302 20 ea	60	30 00
Newby, Richard	247 303 304 305 307 10 ea	50	25 00
Newby, Richard	264 271-50 ea	100	50 00
Newby, Richard	306	3	1 50
Nelson, L M	331	40	20 00
Phillips, Mrs M E	150	5	2 50
Pelton, Miss N C Malvina	252	1	50
Rockafellar, Daniel	220	5	2 50
Stuart, L D	160	3	1 50
Smith, Mrs C A	228	5	2 50
Sawyer, C L	256	10	5 00
Van De Water, R J	166	4	2 00
Van De Water, R J	136	30	15 00
Van Vlack, Henry	277	15	7 50
Van Vlack, Henry	239	5	2 50

And in accordance with law, and an order of the Board of Trustees, made on the 29th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Edwards, Olney & Co., 626 Montgomery street, San Francisco, on Monday, the 14th day of August, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco. jy29-3w

Office of the United States Gold and Silver Mining Company, San Francisco, Cal.—Location of Mines: in Santa Fe and Ravenswood Mining Districts, Lander county, Nevada.

Notice is hereby given, that in accordance with a resolution of the Board of Trustees of the above named Company, passed on Wednesday, the fifth day of July, 1865, and in accordance with the by-laws of said Company, a meeting of the stockholders of the above named Company will be held at the office of the Company, No. 605 Clay street, in this city, on Thursday, the tenth day of August next, at 7½ o'clock P. M., for the purpose of authorizing and empowering the Trustees of said Company to sell one or more of the mines belonging to the said United States Gold and Silver Mining Company, and for the purpose of changing the by-laws of the same, and for the transaction of any and all business that may legally come before the meeting. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

San Francisco, July 5, 1865. jy8-5w

Vulcan Mining Company, Santa Fe Mining District, Lander county, Nevada.

NOTICE.—The Annual Meeting of the stockholders of this Company will be held at Room No. 4, northwest corner of Clay and Front streets, San Francisco, Cal., on Saturday, August 5th, 1865, at 1 o'clock P. M.

jy15 td ALPHEUS BULL, President.

Vulcan Mining Company, Santa Fe Mining District, Lander county, Nevada.

NOTICE.—There are delinquent, upon the following described Stock, on account of Assessment levied on the 5th day of August, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
I C Bateman	102	5	$2 50
I C Bateman	103	5	2 50
I C Bateman	105	5	2 50
I C Bateman	106	10	5 00
I C Bateman	107	10	5 00
H Bordas	134	10	5 00
Wm M Davis	125	10	5 00
Wm M Davis	124	10	5 00
Wm M Davis	127	25	12 50
Wm M Davis	129	25	12 50
D H Hall	40	50	25 00
D H Hall	42	50	25 00
D H Hall	43	50	25 00
D H Hall	44	50	25 00
J F Morrison	156	10	5 00
J F Morrison	157	10	5 00
J F Morrison	158	10	5 00
J F Morrison	159	10	5 00
J F Morrison	160	10	5 00
A McMath	142	25	12 50
Quintin Ribo	110	10	5 00
Cornelius Smith	128	25	12 50
John R Stone	153	5	2 50
James P Wade	89	18	9 00
James P Wade	90	18	9 00
James P Wade	93	10	5 00
James P Wade	168	14	7 00
Ellen Wade	165	10	5 00
Geo H Willard	53	34	17 00
Geo H Willard	56	33	16 50
W M Williamson	141	5	2 50
A F Hussey	152	5	2 50

And in accordance with law, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Maurice Dore & Co., No. 321 Montgomery street, San Francisco, Cal., on the 5th day of August, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. H. BURTON, Secretary.

Office, Room 4 northwest corner Clay and Front streets, San Francisco, Cal. jy22

Whitlach Yankee Blade Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22d day of July, 1865, an assessment of ten dollars per share was levied upon the capital stock of said Company, payable immediately, in United States currency, to the Secretary, 402 Front street (up stairs), San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 12th day of September, 1865, to pay the delinquent assessment thereon, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street (up stairs), San Francisco. jy22

Wisconsin Gold and Silver Mining Company, Silver Mountain District, Alpine county, California

ASSESSMENT No. 4.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of July, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the company, or to R. H. FORD, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.

Office, No. 410 Montgomery street, San Francisco.

NOTICE.—At the above meeting, assessment No. 1, of 8 cents, levied July 8th, 1863, assessment No. 2, of 10 cents, levied September 19th, 1865, and assessment No. 3, of 50 cents per share, levied June 3d, 1851, were rescinded, and stockholders having paid the same, or any portion, will be credited on above assessment, No. 4 accordingly.

jy22 J. WARREN CLARK, Secretary.

Constitution and By-Laws
—OF—
Mining and Prospecting Companies

Elegantly printed, with care and dispatch, at the office of the **Mining and Scientific Press.**

☞ Orders from the interior faithfully attended to. Packages which can be judiciously sent by mail will be prepaid our expense.

U. S. 7-30 LOAN.

By authority of the Secretary of the Treasury, the undersigned has assumed the General Subscription Agency for the sale of United States Treasury Notes, bearing seven and three-tenths per cent. interest per annum, known as the

SEVEN-THIRTY LOAN.

These Notes are issued under date June 15th, 1865, and are payable three years from that time in currency, or are convertible, at the option of tha holder, into

U. S. 5-20 Six Per Cent.

GOLD BEARING BONDS.

These Bonds are now worth a premium of nine per cent. including gold interest from November, which makes the actual profit on the 7-30 loan, at current rates, including interest, about ten per cent. per annum, besides its EXEMPTION FROM STATE AND MUNICIPAL TAXATION, WHICH ANNS FROM ONE TO THREE PER CENT. MORE, according to the rate levied on other property. The interest is payable in currency, semi-annually, by coupons attached to each note, which may be cut off and sold to any bank or banker.

The interest amounts to

One cent per day on a $50 note,
Two cents per day on a $100 note,
Ten cents per day on a $500 note,
Twenty cents per day on a $1,000 nota,
One dollar per day on a $5,000 note.

Notes of all the denominations named will ba promptly furnished upon receipt of subscription. This is

The only Loan in Market

now offered by the Goverument, and it is confidently expected that its superior advantages will make it

THE GREAT POPULAR LOAN OF THE PEOPLE.

Less than $300,000,000 of the loan authorized by the last Congress is now on the markct.

This amount, at tha rate at which it is being absorbed, will all be subscribed for within four months, when the notes will undoubtedly command a premium, as has uniformly been the case on closing the subscriptions to other Loans.

In order that citizens of every town and section of the country may be afforded facilities for taking the Loan, the National Bank, State Banks, and Private Bankers throughout the country have generally agreed to receive subscriptions at par. Subscribers will select their own agents, in whom they have confidence, and who only are to be responsible for the delivery of the notes for which they receive orders.

JAY COOKE,
Subscription Agent, Philadelphia.

March 25, 1865. 17v1 -3m

ADDENDUM.

PER OVERLAND TELEGRAPH:

PHILADELPHIA, Mny 17, 1865

Second Series all sold. Commenced on Third Series. Two Hundred and Thirty Millions (230,000,000) precisely like other two Series, except dated 15th July, and Government reserves the right to pay six per cent. in Gold instead of 7-30 Currency. **JAY COOKE,**
Subscription Agent, Philadelpbia.

Metallurgy.

NOTICE
—TO—
COPPER MINING COMPANIES.

The undersigned offer their services for the construction and working of

Furnaces of the most approved form

And on the most economical principle,

For the reduction of COPPER ORES. For further information apply at the office of the CALIFORNIA COPPER SMELTING COMPANY, No. 540 Clay street (office No. 4), San Francisco.

5v11-tf **R. EMERSON & CO.**

ASSAYERS

Desirous to commence an ASSAY OFFICE in the mines may buy, at a very low figure, in a prosperous mining county, a complete set of Assaying Apparatus, Scales, Chemicals, and everything necessary to carry on said business. Apply to Lock Box No. 782, Postoffice, San Francisco, stating name and where an interview may be had. 17v10

FIRST PREMIUM
FOR REFINING COAL OIL,

At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,
17v10 643 Third Street, bet. Brannan and Townsend.

EUROPEAN
METALLURGICAL WORKS,
—AND—
Practical Mining School,

Bryant Street, Between Third and Fourth,

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THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. KIMBALL, J. R. MURPHY.
10v10

HELMBOLD'S
FLUID EXTRACT BUCHU

For Non-Retention or Incontinence of Urine, Inflammation or Ulceration of the Bladder or Kidneys, Diseases of the Prostrate Gland, Gravel, Brick Dust Deposits, Dropsical Swellings, Orgauic Weakness, Debility, Female Complaints, Etc.

H

HELMBOLD'S

FLUID EXTRACT BUCHU

—AND—

Improved Rose Wash

Will radically exterminate from the system Diseases arising from Habits of Dissipation, *at little expense, little or no change of diet, no inconvenience or exposure*; completely superseding those *unpleasant and dangerous remedies, Copaiba and Mercury*, in curing these diseases.

E

USE HELMBOLD'S

FLUID EXTRACT BUCHU

In all Diseases of the Urinary Organs, whether existing in MALE OR FEMALE, *from whatever cause originating, and no matter of how long standing*. It is pleasant in its taste and odor. IMMEDIATE in action, and more strengthening than any of the preparations of *Bark or Iron*.

Those suffering from *Broken Down or Delicate Constitutions, procure the Remedy at once.*

The reader must be aware that however slight may be the attack of the above diseases, it is certain to affect his *Bodily Health, Mental Powers and Happiness*. If no treatment is submitted to, Consumption or Insanity may ensue.

All the above diseases require the aid of a diuretic.

Hembold's Extract Buchu

IS THE GREAT DIURETIC.

L

HELMBOLD'S

HIGHLY CONCENTRATED

Compound Fluid Extract Sarsaparilla,

For purifying the Blood, removing all diseases arising from excess and imprudence in life, chronic constitutional diseases arising from an impure state of the blood, and the only reliable and effectual known remedy for the cure of Scrofula, Scald Head, Salt Rheum, Pains and Swelling of the Bones, Ulcerations of the Throat and Legs, Blotches, Pimples on the Face, Tetter, Erysipelas, and all scaly eruptions of the skin, and beautifying the COMPLEXION.

M

NOT A FEW

Of the worst disorders that afflict mankind arise from the corruption that accumulates in the Blood. Of all the discoveries that have been made to purge it out, none can equal in effect HELMBOLD'S CONCENTRATED EXTRACT OF SARSAPARILLA. It cleanses and renovates the Blood, instills the vigor of health into the system, and purges out the humors which make disease. It stimulates the healthy functions of the body, and expels the disorders that grow and rankle in the Blood. Such a remedy, that could be relied on, has long been sought for, and now, for the first time, the public have one on which they can depend. Our space here does not admit of certificates to show its effects, but the trial of a single bottle will show to the sick that it has virtues surpassing anything they have ever taken.

B

Two tablespoonsful of the Extract of Sarsaparilla, added to a pint of water, is equal to the Lisbon Diet Drink, and one bottle is equal to a gallon of the Syrup of Sarsaparilla, or the decoction as usually made.

The above Extracts are prepared on purely scientific principles—in *Vacuo*—and embody the full strength of the ingredients entering into their composition. A ready and conclusive test will be a comparison of their properties with those set forth in the U. S. Dispensatory.

O

HOW TO USE THE REMEDIES.

In Diseases of the Blood, Humors on the Face, or any and every part of the body, use Extract of Sarsaparilla, applying to Pimples and all external Humors or Eruptions the Improved Rose Wash.

Use the Extract Buchu for all diseases requiring the aid of a diuretic, except those of the Urinary Organs, such as Gonorrhœa and Gleet; in these use the Extract Buchu, and inject with the Improved Rose Wash.

L

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THE QUARTZ OPERATOR'S HAND BOOK is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

The work also contains an original and highly interesting discussion of the tractory and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Belshaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on page 415 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865.

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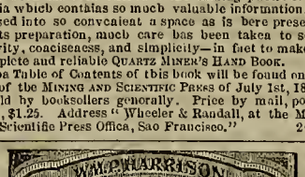

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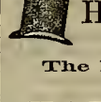

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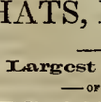

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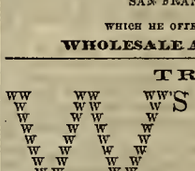

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Mining and Scientific Press.

A Journal of Useful Arts, Science, and Mining and Mechanical Progress.

DEWEY & CO., PUBLISHERS And Patent Solicitors.

SAN FRANCISCO, SATURDAY, AUGUST 12, 1865.

VOLUME XI. Number 6.

During the Fair

We hope the readers of the MINING AND SCIENTIFIC PRESS will look with leniency upon any degression they may observe from the usual contents and make-up of our journal. Correspondents will also please bear patiently with the crowded state of our columns in giving full reports of the Exhibition.

OUR PAPER BY EXPRESS.—Owing to the fact of Wells Fargo & Co requiring publishers to pay 2½ cents per copy in advance on papers sent to subscribers in the interior we are obliged to make our subscription terms by express $3 50 per annum. Our recommendation to newspaper patrons is to patronize the U. S. mail in all cases practical, as it is the cheapest and most reliable conveyance.

SPECTRUM ANALYSIS.

Of all the contributions made to science during the last five years, none have been more important or interesting than those which have resulted from the discovery and application of the "spectrum (or proto-chemical) analysis." Our attention has been more particularly called to this subject, at this time, from having recently for the first time seen and examined a "spectrum,"—the instrument by which this mode of analysis is accomplished—which has recently been received, in connection with an extensive assortment of other optical instruments, by the St. Ignatius College of this city. So far as we are aware, this is the only instrument of the kind on this coast; and after listening to a brief explanation of the process of manipulation involved in the use of the same from Prof. Chichi, of the above named institution, we were curious to learn more fully of its history and advantages. In seeking such information, we naturally dropped in at Bancroft & Co.'s, on Montgomery street, and in looking over their scientific department of books, we came across just what we desired, a work entitled "Researches on the Solar Spectrum, and the Spectra of the Chemical Elements: by G. Kirchhoff, Professor of Physics in the University of Heildelberg," translated by Henry E. Roscoe, of Owen's College, Manchester, England.

It is to Professors Kirchhoff and Bunsen that the world chiefly owes the foundation of an entirely new and interesting branch of chemical science—the application of spectrum observations to qualitative analysis; and the various scientific researches and important mechanical advantages which have been or may be derived therefrom. The work to which we refer contains a full description of the methods of experiment employed by Prof. Kirchhoff in his investigations, accompanied by engravings fully illustrative of the same. In the present article we have merely space to briefly allude to the additions to knowledge which have been made through these investigations.

It is well known that when a ray of sunlight is caused to pass through a prism and made to fall upon a wall or screen, a succession of colored lights is produced, known as the solar spectrum. It has also long been known that in carefully examining these lights or colors, numerous dark lines may be seen, having no apparent reference to the colors or the medium by which they are separated. It has only quite recently, however, been observed that the position, brilliancy and particular tint of these lines vary with the character of the light yielding the spectrum—the sun giving one class of lines, a candle another, and gas light a third, and so on, each artificial light, as well as the light of the sun, having its own peculiar and invariable system of lines. These phenomena were well known and commented on by the scientific world for nearly fifty years, without any satisfactory explanation of their philosophy being given. The lines had even been mapped out, colored and counted, to the extent of 2,000 in number.

It was at this point that the investigations of the eminent professor Kirchhoff, and his associate Bunsen, commenced. They observed that when different metallic substances were burned, or rather *evaporated* in gas flames, and the light of those flames passed through a prism to form a spectrum, these bright lines were varied by each different metal, and that the lines developed by any given metal were always uniform.

Just there was the discovery, which at once accounted for the phenomena of the "lines," and opened up to their delighted imagination a new and most important portal through which science might still further penetrate the *arcana* of nature. It required but a small additional amount of investigation, and some improvement in their apparatus, to prove to an almost mathematical demonstration that we can tell the character of the combustion which is going on in the sun, as well as that in the ordinary gas flame which lights our dwelling. It also confirms the idea that the further we penetrate into the secrets of nature, the more we find there remains to be learned.

It is difficult, without an illustration, to give the reader who has never seen an instrument employed for a spectrum analysis, any intelligible idea of the process. In the absence of any illustration we can merely say, that an ordinary gas lamp is placed upon a table, and a prism so arranged that the light from the lamp may be made to pass through it and fall upon a proper surface; the spectrum so formed is then examined with an eye-glass of suitable magnifying power, and the character of the lines developed thereon compared with a standard scale properly colored and noted. If any metal is burning in that flame, by finding the lines on the scale which correspond in color, intensity and relative position to those on the spectrum developed by the light employed, the character of that light may be read at once, and the metal which may be burning determined. The metal may be introduced into the flame in the form of a chloride, or in any other form in which it may be evaporated, or burned in the flame employed; it may be held, for convenience, on a piece of platinum wire. If a mineral is to be examined, it should be pulverized and digested in a proper acid, to dissolve the metal which it may contain, and a portion of the liquid evaporated by dipping therein a piece of platinum wire and transfering the same to the flame. When necessary an electric current may be employed to effect the fusion.

Of course nothing but a qualitative analysis can be obtained by this process; but experiments have fully proven that the peculiar lines developed by these spectrums may be regarded as absolute proof of the presence, in the flames, of certain metals corresponding to the lines. The spectrum analysis serves, therefore, as a re-agent, by means of which the presence of metals may be recognized with more certainty, greater celerity, and in far smaller quantities than can be determined by any other known method employed in chemistry or metallurgy.

As an evidence of the extreme minuteness in quantity of any metal which may be detected by the spectrum, it is stated, on the authority of both Bunsen and Kirchhoff, that they have obtained a bright and distinct sodium line by burning only forty-six one-thousandth (0.046 gr.) part of a grain of chloride of sodium (common table salt). As our article has already become quite lengthy we propose to continue it in a future number, in which we shall endeavor to detail some of the most important scientific and mechanical advantages which have already been derived from this wonderful discovery.

ELECTRICAL SCIENCE.—Among the many ingenious inventions which have been called into being by the necessities required in manufacturing and laying the Atlantic cable, none perhaps is more simple, beautiful and perfect, than the arrangement devised by Professor Thompson, the scientist of the telegraph company, for measuring the rate of leakage of the electric fluid from the charged cable. This is accomplished by what is known as a torsion balance, an instrument for estimating very minute forces by the motion of an index attached to the ends of two very fine wires on threads which twist around each other. The index in this case is a very minute steel needle, the slightest motion of which is exaggerated *ad libitum*, by the simple device of attaching to the needle a mirror, which reflects the light of the lamp on a scale placed at a distance, showing a little line of light, which traverses many inches, while the index needle makes a movement scarcely appreciable to the naked eye. The most trifling leakage, for hundreds of miles of cable, may be thus detected, and almost the precise point of escape indicated by the operator. So exquisitely delicate is this test, that while the cable was being manufactured a minute flaw in one of the four coatings of gutta-percha was detected, and its locality, within a few yards pointed out, so that the length within which it occurred was cut out. So intricate and multiform have the devices of the artisan become, in these modern times, that it is now almost a *sine qua non* that science should go hand in hand with art in nearly all our daily avocations.

THE REESE RIVER PEARL G. & S. M. Co. is the name of a New York organization recently formed to work several very valuable mines in the immediate vicinity of Austin, Reese River. The mines belonging to this company are known as the Pearl, the Russ and the Amelia. The first named of these mines was visited and carefully examined by Professor Silliman while that gentleman was in Reese River, last summer. He speaks of it as a very promising and valuable mine. The Trustees of this incorporation, with the exception of Mr. George Turin, the resident superintendent, are all well known merchants and brokers of New York city.

WE have received a long and interesting letter from Mr. H. Harding, of Visalia, giving much valuable information concerning the mines of Tulare county, which will appear as soon as we can afford it space.

A NEW ASTRONOMICAL THEORY.—A new English astronomer, Mr. R. Proctor, of St. John's College, Cambridge, who has just published an elaborate book on the planet Saturn, believes Saturn's rings not to be continuous bodies, either solid or fluid, but a multitude of loose planets, grouped like a bead necklace round his equatorial regions, just as if we were furnished not with one moon, but as many moons as would span the whole earth. Mr. Proctor asserts that this hypothesis explains more completely the whole phenomena of the case than any other. This supposition somehow gives a larger idea of the opulence of the universe in worlds than any other known fact. To have such a multitude of little worlds strung close together round one planet produces (illogically enough) a more vivid impression on the mind than many times the number of fixed stars distributed over the infinitude of space. *London Spectator.*

The idea of a planetary ring, surrounding a large body in space, is not new with Mr. Proctor, as intimated in the above extract from the London *Spectator*. The idea was first suggested by Sir John Herschel, in an article in the *London Quarterly Journal of Science*, in which he threw out the suggestion whether the original exciting cause of the spots on the sun might not be due to the circulation around that luminary of an eliptic ring of planetary matter in a state of division so minute as to elude telescopic vision — precisely the same idea as that suggested by Mr. Proctor, to account for the rings of Saturn.

A NEW FLY TRAP.—Mr. Horace Collier has shown us a novel and ingenious Fly Trap of his invention, which appears to be constructed more on reason and the known habits of the American house fly, than anything else of the kind we have ever seen. It is well known that a fly, after gorging himself, will always endeavor to ascend; he will go up to the top of the room, etc. Acting upon this hint, Mr. Collier has constructed a trap after the following manner: He makes a wire enclosure, much in the shape of an ordinary bird cage of fine woven wire. The bottom of this cage is made of tin, closely perforated with holes, just large enough to allow a fly to pass through from the smooth side upward. The roughness and protruding edges of the holes renders it impossible for him to return, even if he attempts to do so, which he seldom does. Beneath this bottom, about two inches, is suspended another false bottom, not perforated, and upon which is placed the bait—a little moist sugar, or any other suitable substance. Eight or ten short pieces of wicking, saturated in sweets, are drawn through as many holes in the perforated bottom and reaching down to the false bottom. The flies appear disposed, after eating awhile, to climb up these enticing ladders and pass from them through the openings, securely into the trap above; having entered which they are safe from any further mischief, and may be readily smoked to death, smothered by sulphur fumes, or disposed of in any other convenient manner. These traps may be seen at the book and stationery store of Messrs. Martinet & Schiley, 633 Market street.

OIL BORING IN HUMBOLDT.—The Humboldt *Times* says that there are probably twenty-five wells being bored for petroleum, at this time in Humboldt county.

OPENING ADDRESS

Of the Mechanics' Institute Industrial Exhibition, delivered at Platt's Hall, Wednesday Evening, August 9th, 1865.

BY HON. FRANK M. PIXLEY.

FROM THE DAILY AMERICAN FLAG, AUG. 10TH.

Thomas Carlyle, a distinguished English writer, has asked, with the illiberality which characterizes some Englishmen, "What great human soul? what great thought? what great noble thing, that one could worship or loyally admire, has yet been produced in America?"

May we not answer him this: We have elevated labor and made it honorable; we have established a commonwealth on a broad and durable base, recognizing the dignity of labor; we have builded a government for the people, laying its foundations deep and broad in the recognition of the great truth, "that all men are equal," and we have carried up the superstructure, preserving, in all its grand proportions, the symetrical beauty of the idea, that not birth, but merit, intelligence and virtue are the essentials of true greatness.

May we not answer this English writer that we have provided the means of education for all our youth; that we give all the honors and offices of our nation to those who strive for them; that we give the right of the elective franchise to all of our race, making every one a sovereign; clothing him with all the power, dignity and responsibility of a citizen.

If to-night I was reading an address to the mechanics of England, to what proportion could I direct my reflections upon political questions? How many of them might consider themselves interested in the discussion of great topics of national importance, which are so appropriate for you to understand?

How many of them would have any other interest than in the question of beef and beer? In the Kingdom of Great Britain there are five millions of white men of lawful age deprived of the right of the elective franchise, who can take no part and have no voice in the administration of the Government under which they live. In Ireland only one in eighty have a right to vote.

When we are asked, what great human soul we have produced? may we not point with pride to the birth, and life, and death of him, who led our armies of working men through the war of our Rebellion against England to victory. Who became the first of the great Republic which his sword had carved out; who ripe in years and full of honors claimed as his only reward for a life of patriotism the indulgence to retire from the service of his country. May we not claim a great human soul in George Washington, the Father of the Republic?

When asked what great thought have we developed? Have we not demonstrated the sublime idea that men are capable of self-government; and looking back through all the bright pages of English story, back through all their centuries of time, back to the twilight of their early civilization, do we find any great thought comparable to this?

When asked what great noble thing that one could worship or loyally admire, has yet been produced in America? May we not answer, we have produced the grandest commonwealth of freemen that the world has ever seen?

We have established a Government by the sacrifice of our sires, preserved by the blood of their sons for the refuge of the oppressed of all the world.

We have carried out a system of laws which afford protection alike to all.

We have laid firm and broad and deep the foundations of our Temple of Liberty in the education and intelligence of our masses.

We have builded up an altar to the worship of the ever living God, before which all creeds and forms and faiths may kneel in fearless freedom.

Discarding all privilege to class, all title to nobility, all preference to the eldest born, we have placed our soil, our social honors, and political ambitions within the reach of all.

And more than all this we have dignified labor and given to it the letters patent of true nobility.

May we not claim something more in the lessons taught by the stern and terrible trial through which our people have passed in the four years of war that has desolated our beautiful land?

England has produced her heroes on land and sea. Collingwood and Nelson have proudly fought their fleets to victory. Marlborough and Wellington waded through fields of blood to glory, but in all their galaxy of heroes, have they any brighter constellation of glorious names than Porter, Farragut, Sheridan, Sherman and Ulysses Grant? [Great applause.]

We may not be ashamed to compare with their grandest naval victories of the Nile and Trafalgar our exploits at New Orleans and Port Royal; their sternest fights, their grandest armies, their Agincourt and Waterloo, with the terrible encounters of our gallant boys in blue, our noble array of strong-armed men, whose many battle fields bewilder us in the recital of their names. [Applause.]

Has not this war demonstrated the strength of republican governments; that the ideas and theories of a free commonwealth can be protected on the battle field by the freemen who compose it; that it is not only strong in peace, and prosperous when under the sunshine of repose, but strong in war, and terrible when assailed, or its existence menaced by civil war?

The sublimest lesson taught in this conflict, and the one which most strikingly illustrates the ability of our people for self-government, was in the moderation and calmness with which was received the last, saddest and most terrible blow in this sad and terrible drama—the assassination of our Chief Magistrate, our loved and honored President; he who had so safely piloted us through this dark and fearful night of civil war; our noble Chieftain, whose great loving heart was capacious enough to have embraced all within its kindly sympathy. He was foully murdered, and yet the people obeyed the law; order, not chaos followed; sorrow, not anger ruled the Nation's heart; judgment, not revenge controlled the people's acts; and then was seen the grand and simple operation of our constitutional Government. "The President is dead, long live the President." One lay dead in his bloody vestments, the other placing his hand upon the word of God, with simple oath becomes Commander in Chief of the grandest army of the world; first magistrate of thirty millions of people. Have we not, indeed, made labor honorable, and given to it a just recognition, when the poor farmer's boy, the village attorney, the President of the United States dies, and is followed in his high office by a self-educated mechanic? There is great fitness in the fact of a mechanic being President of the Republic at this time. The war through which we have passed has shown that we live in an age of mechanics. We may not call ours the age of bronze or iron or gold, we may rather name it from the artificers in metal than from any of the metals themselves. In no other era of the world's history has mechanical art been brought to so much perfection, and no event could have illustrated the advancement of the mechanical sciences as has the giant struggle in which we have so recently engaged.

Let us for one moment consider the fearful engínery of war as compared with olden time. When a castle's walls of solid masonry was guarded by ditch and moat and drawbridge, impregnable to the attack of battering ram or taggot, its ramparts armed with stout men at arms, a seige was but a question of vigilance against surprise, water and food for long investiture. The lance, the bow, the bill and sling of the olden time wore innocent implements of war; after the invention of gunpowder the blundering arquebusse, the unweildly culverin were but little effectual in the art of death. Knights and horses armed in coat of mail and plate of glittering steel went forth with sword and lance to deeds of single combat; then the strong arm, the cool courage and the stout heart told in acts of personal valor. How different a field of battle now, with its cunning strategy, its terrible implements of death, its fearful machinery of war? No coat of linked-mail to guard the manly breast, no stout shield of brass or hide to cover the warrior's front, no trick of the wrist or art of defense may shun the deadly bullet from the unerring rifle; no personal valor or prudence may guard against the crushing cannon ball that ploughs its furrow of death through unresisting ranks. Now the mad maelstroom of battle is the swift clashing of material force, to be determined by the quality and effectiveness of the implements of destruction. Victory rest with the Minie rifle against the flint musket; with revolving barrels and repeating shot, against the single bullet; with the grooved chamber, against the smooth bore, the unfailing percussion cap, the self-adjusting cock, the breach loading gun, against the older and less successful experiments in arms. In the heavy ordnance war becomes but a contest in mechanics. Bursting shell, with their nice adjustment of fuse, the elevation scientifically calculated for distance, and taken by telescopic observation. Red-hot shell from heated ovens, loaded to the cannon's mouth with the levor and the inclined plane. The light artillery, on its mission of death flies across the ensanguined field, a failure if a linch-pin fails. Rifle cannon so nicely poised, so exactly adjusted, as to elevate or depress at the finger's touch upon the screw, and then hurling their three hundred pounds of solid steel against ship or fort or bastion. Ships, iron-plated, clad in chains and armor, with revolving turrets, hurling their fire against the enemy and guarding from assault, those within their protecting shields.

I fancy that even Thomas Carlysle would have admitted that if this last invention of the American mechanic was not a noble thing for him to worship or loyally admire, he would at least have looked upon it with some degree of respect; and when he thought of the boasted wooden walls of England, be might have trembled for them in prospect of any warlike encounter with the American Monitor. This war too has demonstrated that all the Americans are a mechanical as well as a warlike people.

It was a popular idea that all the inventive faculty lay within the limits of New England, and all the manufacturing genius belonged to the Northern States; that our Southern brethren possessed the accomplishment and gallantry of the cavalier, but none of the genius to create or discover. But, under the stern necessity of their position we find all kinds of war material and all the necessary requirements to maintain their armies and supply their people springing up under their hands; their foundries, powdor mills and ship-yards, turned out gunboats of formidable character, and though now in the day of peace, we may hope to see this people return to the arts of agriculture, the lesson may not be without importance in teaching them the capacity of their people and the resources of their land.

It has ever seemed to me, that the truest measure of a nation's prosperity and greatness was the character of her mechanics, simply because a nation whose mechanics excel in all the departments of their various pursuits, is independent and self-reliant. The mechanical art gives permanence to every other branch of industry.

Of the European Governments of modern times, England has attained the highest point in civilization, in moral and material progress. Her mechanics build the fleets which bear the products of her looms and forges, the handicraft of her skillful workmen to all parts of the world bringing in return the raw material which goes forth in exchange for everything which can enrich and exalt her realm. Thus, from her little island in the sea, has she carried her conquest, her commerce, her arts, her literature and her laws to all parts of the world.

Let us now consider some of the practical questions which touch the material interests of our coast and people. Adam Smith has put forth the axiom, "that labor is wealth." Labor is the source of wealth; every laborer who comes here bringing his muscle, his industry and his skill, brings capital to be added to the wealth of the State. This labor should find employment tor every man willing to work, if left unemployed, to that extent paralyzes and retards the advancement of the State. Our continued effort should be to encourage the immigration of working men and women, and check by every possible means in our power the importation of any article that we can ourselves produce. Every dollar that we send abroad for articles which could be produced or manufactured here, is a dollar worse than wasted.

This State can never be truly prosporous until we can manufacture for ourselves, and if one half the money which has been wasted in gambling ventures in search of the hidden treasure of our mines, had been expended in the legitimate business of manufacturing, we should have saved hundreds of millions of dollars to the aggregate wealth of the country.

Half the money which has been ventured in search of silver in Washoe; that has been wasted in bribes to prevent justice, in fees for the subornation of jurors and witnesses; that has gone to swindling corporations, to profligate mining secretaries and criminal treasurers; that has been paid for huncombe science and pretended experts, would have made every water course in our State vocal with the music of the clacking wheel as in merry industry it toiled—would have builded shops and factories in every county, giving employment to labor and wealth to the country.

Halt the money risked and lost by our people in their wild excitement for new diggings from the time of Gold Bluff to the last expedition in search of lost treasure on Cocos Island, would have given us railroads through every valley of our State.

Half the money risked and lost by our merchants in desperate commercial ventures would have builded ships to convey our commerce to every sea.

I speak now of gambling and speculative projects, not intending to discourage those legitimate enterprises which are calculated to develop the mineral resources of our State or open new avenues to wealth; for upon the prosperity of our mines in a great degree depends the prosperity of all other business; and it is a matter of congratulation, that while the gold products of our placers are diminishing, the skill of our mechanics is perfecting appliances which enable us to increase our gold products from our quartz and gravel mines. The report of the Patent Office discloses this fact: The inventions, improvements in mining processes, machinery which have been made in California, have grown out of our mining operations, are more numerous and perfect than all the previous inventions of similar character in the world; that during the last ten years, California has taken out more patents than any other State in the American Union, and especially in pumps, quartz machinery and chemical processes for extracting metals from ores, have our people been successful. We are discovering silver, coal, copper, quicksilver, borax, iron, marble, and other valuable minerals in such quantities and character of deposits as ensures the prosperity of mining interests for long years to come. And while we have not made as rapid advancement as would be desirable in manufacturing we have been by no means idle. I would have been glad to have gathered some statistical information touching these interests of our State, for I believe the figures would do us great credit, but the time afforded for this address was too limited for the attempt.

We are now manufacturing blankets and coarse woolen cloths, powder, paper, glass ware, shot, matches, brooms, tubs, pails, cabinet work, jewelry, soap, starch, maccaroni, bricks, marble, granite work, fire hose, carpets, and leather.

We are building ships, steamers, steam engines, boilers, railroad cars, carriages, wagons, producing machinery for quartz crushing, mill work and castings of every description and agricultural implements; our grains are floured in our own mills, or distilled; casks, barrels and lumber from our own forests; cider, and vinegar made from our own orchards; pickles and can fruit of our own raising; beet and pork packed for our own consumption; wine from our own vineyards. A cotton factory is in process of construction, which if successful, and shall encourage the cultivation of cotton upon the Pacific coast, will be worth to our State half a dozen silver mines. We are raising the cotton now; we are producing tobacco, and manufacturing large quantities of cigars; we are producing more whisky than is good for our people to drink; our wine product is in the millions of gallons already, though the vine culture is but in its infancy; we are packing onions and figs with success. There are doubtless many other sources of home wealth that I have overlooked, and I have named only a portion of our manufacturing and producing occupations; but even this glance will enable us to contrast the present with the time when we used to wonder if our mountain land would grow vegetables; when our onions and pototoes came from the Sandwich Islands, our soiled linen washed in China, our eggs and butter brought from Boston, our lumber from Australia, and our bricks from New York. This glance at our productions teaches us also how many other articles we ought to produce and manufacture, and which we will undoubtedly accomplish in the good time coming, when labor is plenty and money is cheap.

The question of currency is now claiming the attention of our people; let us briefly consider it. It is one of those questions in which we have all a common interest—we all desire the same result. We want cheap money and plenty of it. A thousand schemes of industry would be entered upon if money could be obtained at low rates of interest, and for want of which our State is now languishing. Gold and silver is our only circulating medium. Whether wisely or not, the Constitution of California prevented the establishment of banks for the issue of paper money, and for twelve years we operated with only gold and silver coin.

The war came, and the Government found it necessary to issue paper currency, and to declare that it should be Legal Tender for the payment of all debts. The people of the Eastern States had been in the use of paper money and they found the transition from the one kind of paper to the other easy. The substitution of the bills of National banks for the bills of private banks was not difficult. Nearly all the war expenditure was in the Eastern States and thus the people of those States become familiar with the National Currency. The substitution of paper money for coin was found more difficult. On this coast we were far removed from the scene of war and war money. Our capital was largely owned by foreigners, our home indebtedness had been created for gold, we were in danger of a financial crisis, the holders of capital began to draw in their money, to deny further accommodations unless they could have a guarantee that if they loaned gold they should be paid gold. If the merchant sold for a gold price and the mechanic manufactured for a gold value and the laborer worked for gold wages, these moral obligations should be legally enforced by payment in gold, and legislation wisely, I thought at the time, passed what is known as the Specific Contract Law, but which is simply an amendment to the Practice Act, providing that when contracts are made for the payment of gold, or silver, or paper, the courts shall enforce the obligation in the specific currency in which the contract is made. In other words, it extended the machinery of the law and the process of the courts to carry out the contracts which business men entered into with each other. The repeal of this law is now being agitated. It is hard to convince the working-man that a paper dollar at twenty-five cents below par, is equal in value to a gold dollar; but two paper dollars, worth seventy-five cents each, are worth just fifty cents more than the brightest gold dollar that ever left the mint. We need all the money we can get, still we must not confound cause with effect. It is said that the Specific Contract Law prevents paper money from coming to California—prevents the establishment of National Banks—that nearly a thousand millions of dollars of National Currency are floating in the Eastern States, seeking investment at low rates of interest, and that the repeal of the Specific Contract Law would encourage the introduction of that capital to our State, would aid to develop our resources, encourage our manufacturing interests, and build up internal improvements.

Now, we would all of us be glad to have more capital, and I do not believe there are any of us who are so prejudiced against paper money that we would not be glad to have our pockets full of it. We would be glad to see National Banks established in rivalry with our own banks for the reduction of rates of interest; we are all in favor of cheap money, and we are all patriotic enough to believe our Government is able and willing to pay her entire debt, gigantic though it be.

But is it not well to inquire whether the repeal of the Specific Contract Law will bring about all the improvement and benefit we desire; whether its repeal will ward off all the evils we deplore and all we anticipate?

It is a delicate matter to attempt to legislate upon questions of currency. Money is sensitive, timid, and easily disturbed; and unless we are very certain that the repeal of the Specific Contract clause will improve our financial condition and alleviate the monetary embarrassment, we had better leave the law undisturbed. Capital is the nursing mother of labor, and any legislation that disturbs the one destroys the other.

There is another question claiming public attention touching the interests of labor. I refer to the position of the Freedmen of the Nation.

Our war has happily terminated in the enfranchisement of four millions of people who were formerly slaves. Upon their labor depended the production of certain leading staples. They were the working force of a large section of our Union; whether this labor force shall be retained in the spot of their former employment, or shall invade the fields of industry now occupied by the white laborers of the North, involves the prosperity of both parts of our country.

Communications.

[Written for the Mining and Scientific Press.]

Mining at Reese River—The Mills about Austin, and their Management.

Messrs. Editors:—The mills in operation at present, are the Manhattan (late Oregon), Midas, California, Butte, Hildreth, and Buell's; all running on custom rock, with the exception of the Manhattan. The mills idle, are the Weire, Eagle, Union, Clilton, and the Pioneer. All of these have recently changed hands, and are now undergoing repairs and alterations, which will greatly increase their efficiency and capacity for the reduction of ores.

THE MILLS BUILDING

Are the Keystone, Confidence, an addition of twenty stamps and amalgamators in preparation to the present Manhattan mill, the Big Creek or Prescott mill, and another not yet named, the machinery of which arrived here last week, under the charge of Mr. Thurston, agent of New York capitalists. As my present letter is intended more to dwell on the mines and their management, I will defer a description of the mills to my next; but will say here, that it would dispel much of the mist from off the eyes of some of the "incredulous croakers" against the Reese River mines, were they here to witness the preparations and outlay that are being made to develop the mines of this place. When we find 16-stamp mills in active operation, five others increasing their capacity from ten to twenty stamps each, and five others building, of twenty to forty stamps each, all within one district, we must begin to think that there is something in the district that justifies this outlay.

THE LEDGES TURNING OUT PAY ORE

May be counted by hundreds; but the principal ones are in Upper Austin. Those of the Manhattan company, namely: the Oregon, North Star, and Southern Light; the Savage, North River, Diana, Morgan & Muacey, and Great Eastern; on Lander Hill, the Hooker, Scottish Chief, and Providential; at Yankee Blade, the Confidence, Whitlatch, Maggie, and the Midas. Now, as already stated, there are hundreds as good mines as these all over this district, and many that have proved themselves even better than those mentioned, but which are lying idle and undeveloped. Some of them are so because they have proved to be good, and of course they must be "spieed" with an application of Montgomery street, "shenanigan," or "freeze-out" game. The poor fellows who discovered them, and were fools enough to allow the controlling interest to pass from their hands, have no business to own rich mines! Oh, no, they must be got rid of. Mr. Secretary calls a meeting of trustees; they meet, the pleasing announcement of mine being rich is made. What is to be done? Pursue the usual course of San Francisco justice to the honest miner, of course, and levy an uncalled-for and exorbitant assessment. The Shylocks arrange with Mr. Secretary that their portion will be forthcoming(?) in due time. The poor miner's stock is seen in delinquent list; he hussels round to make the riffle, finds he can't "come to time," and is almost crazy at seeing such a sacrifice about being made, of what he stupidly considered was his "pile." He demands an explanation as to why such an enormous assessment should be levied, in view of the fact of plenty of rich ore being right in view, and the fact that several tons could be taken out daily, hauled to one of the many mills in the vicinity, and in quick time be converted into bullion. Mr. Secretary replies: "It has been ordered by the trustees." And here the matter ends, as the auctioneer's hammer drops for the "third and last time," knocking down the poor miner's stock to one of the Shylocks, or their friends, and his hopes into a "cocked-hat," and sending himself "kiting" once more up the mountain's side, with

Heavy heart and pockets light,
And a sage-brush for his couch at night—

Once more to make a "strike;" to dig and delve in its development, preparatory to his running the "gauntlet" again of the gentlemanly class(?) of the "stand and deliver" order. That this picture is but too true, and that it has done most serious injury to the advancement of this, as well as many of the surrounding districts, is too patent to all. However, the experience of the past may be of advantage in the future, and "honest miners" must console themselves with the recollection, that if they have not had profit, they have at least had insight. J. R. M.

Austin, Aug. 5, 1865.

[To be continued.]

A Baptism by Electricity.—During a drill of the cadets at West Point, a short time since, the battalion had an electrical baptism. A cadet communicates to the Hartford *Times* the following account of the singular occurrence:

The weather looked very much like a thunder shower, still not a drop of rain fell on the Point; we had just countermarched in column and the battalion was at a support arms—which you know, is with the gun resting on the hammer on the left arm, the muzzle pointing some distance above the body.

I happened to be looking up at the time, and saw a large, dense, black cloud hovering overhead, when suddenly there was a very vivid flash and a loud report at the same time, the report resembling that of a shell exploding, having none of that rumbling peculiar to distant thunder. My first impression was, as I knew they were firing across the river, that one of the guns had burst and the shell had taken a crooked path, as it often does under such circumstances, and had burst overhead. I involuntarily ducked my head for falling pieces. This all passed through my mind on the instant, and you know how quickly one thinks under such circumstances.

Of course, when I saw the guns flying out of the men's hands, and felt a numbness in my arms, I knew what was up, or rather what had come down. Quite a number of men were stunned so that they went reeling around for some minutes, and one man (a yearling) was knocked senseless. I thought at first he was a "goner," but they took him out on the plain, poured water on him, rubbed him, &c., and he came to in about fifteen minutes, when they took him to the hospital. Next day he was all right, except a little weak.

Col. Black was also struck, knocking his horse down on his knees, and frightening the "animile" somewhat. I suppose the reason the cloud discharged itself was that it was quite low down, and was strongly attracted by the conducting surface of about two hundred bright gun-barrels, all pointing vertically upwards. Had it been only a small body of men, say guard-mounting for instance, I suppose it would have been more destructive. As it was, it seemed to have diffused itself over the whole corps, as almost every one in the battalion felt it more or less, and in every company a dozen or more guns were knocked out of the hands of the owners. On the whole I think it was a pretty good little electric experiment, though I shouldn't care about trying it over again.

Will there be Winters in Heaven?—Without suffering and pain, we shall become acclimated in the new world to which our lifeboat is fast nearing; the hours will pass away without a Winter, I think. Nothing so earthy will have a part in the spiritual life.

We shall find an unchanging clime, where chilled forms never shiver in the cold and sleet, nor sad hearts freeze with inhumanity and contumely! No hungry beggar for bread or love will he found in the circles of Heaven; no friendless and forsaken being will wander alone in the crowd of the new life. The mornings will not be ushered in with gloomy skies, piercing winds, and damp mists; nor the evening creep toward us with cold fingers and wet eyelids. If there are dawnings and twilight hours, they will be radiant with pearly hues and softened lights peculiar to the spirit land, so beautiful, so rare, so delicate, human conception cannot picture it.

The Winters will leave us as we pass out of the Autumn of this life to the eternal summer of the next; and whatever the clime of Heaven, we are confident it will be without chill, cold, gloom and death.. No Winters in Heaven.

The Intemperate Soldier.—We would not cast a single shadow over the warm greetings which our returning soldiers deserve from their countrymen. Cold must be the heart that will not grow warm at the sight of those bronzed veterans; unworthy the hand that will not do good to them. But one way to do them good is to recover any who may have fallen, through the temptations of army life.

That reeling soldier, who went forth pure and innocent from his father's house, is no common drunkard. You who then said to him, "Go and God be with you," must not now "pass by on the other side," and say, "Oh, he is some drunken soldier!" Remember the wild excitement of battle; remember the "whisky-rations"; remember what you might have been; remember a country saved. If he staggers up to your door, it is your country pleading through him for efficient action in the cause of temperance.

Pompeii.—Some important discoveries have been lately made at Pompeii. Among others is a sun-dial, with numerous Greek inscriptions. A very valuable and rare cameo has also been found by a child, and placed in the collection of the Museum at Naples.

The First Printers.

The first printers were Titans, and they performed a Titanic work. They were not merely skilful mechanics, or plodding artisans; they were, indeed, what the exigencies of their task required them to be, scholars, patriots, philanthropists, the first of their age. They were men of large intelligence, with a right conception of the new power which printing had introduced into the world, and a clear consciousness that they were laboring for the illumination and improvement of the species. And they caught the inspiration of their lofty mission. They addressed themselves to their work with the hearts of heroes, and the spirit of martyrs. Their difficulties were enormous. The early printer had often himself to prepare the work he was to print, either of translation or by original authorship. He had to make his own printing press, to found his own types, and manufacture his own ink. He was compositor and pressman, and corrector of the Press. He had to bind his own book. He was his own editor, publisher, and bookseller. The outlay of money was necessarily great. Some embarked a small fortune in the enterprise, and were ruined. One, after laying out a large sum on apparatus and materials, and spending years at his task, died broken-hearted, probably, before he had finished the printing of one book, when his materials and unfinished work were sold for a trifle. Two German printers, who carried their presses to Rome, complained in a supplication addressed to the Pope, that at vast cost and labor they had printed twelve thousand volumes, but for want of buyers they were no longer able to bear the expense of housekeeping; their dwelling was full of printed books, but destitute of every necessity and comfort. Others encountered the active opposition of malignant despotism, and suffered death for their heroic efforts in the cause of human enlightenment. It was such struggles, sacrifices, and sufferings, that the Press conquered for itself, and so, for knowledge and for truth, a world-wide empire. These early printers were a noble race, and deserve to be held in veneration as among the first benefactors of mankind.

The Working World.—Work, of the muscles or the brain, is one of the conditions of human happiness. Without it there can be no wholesome enjoyment. The idle man seeks a substitute for the healthy excitement of labor in vicious indulgence, or degenerates into a being only a few degrees above the lower animal. His soul and mind, in the one case, become degraded and debased by false uses; in the other, they rust with him, and he is left to the government of the mere instincts which he possesses with the brute.

The truest life—that most accordant with our nature—is one in which physical as well as mental labor are judiciously mingled, alternating with such reaction as tends to refresh and renovate both. Neither constant toil nor incessant toil is advisable. When both head and hand are weary try a little amusement—light reading of a wholesome kind, a romp with your children, if you have any, a social evening with your neighbor—anything in fact, that may properly be warranted to wear well, and it will not be clouded with fits of the blues. He who lives it, will be younger in feeling at fifty than the fast man, whose career has been a gallop after excitement, at thirty-five.

If you belong to the working world, and eat your bread in the sweat of your brow, do not fancy, therefore, that you have no opportunity to enrich your mind. Labor, thank heaven, is not so ill paid in this country that the toiler cannot afford to throw down his tools now and then and cultivate his intellect. Two-thirds, at least, of our distinguished men have been farm laborers or handicrafts-men. Very few of them were "college bred." Our common schools impart all the instruction necessary to enable their pupils, in after life, to educate themselves thoroughly in the highest branches of knowledge which the human mind is capable of mastering. Moreover, let it never be forgotten that our greatest statesmen, discoverers, inventors, scholars, and artists, have sprung from the ranks of Labor, and not from the Silk Stocking classes.

Our Political Status.—There are now thirty-six States, of which only eleven (less than one-third), were in rebellion, and thus, the States that remained loyal have a majority of twenty-eight in the Senate. In the Lower House, the loyal States have 181 out of 242 Congressmen—a majority of 120 over the late rebel States. The preponderance of the loyal element appears to be sufficient to secure us against any return to the old subjection. The domination of the South grew up while the slave-aristocracy were in power and united, and while they had half of the Senate and nearly half of the House—a condition of affairs that cannot return again.

Checking Perspiration.—Edward Everett, the finished scholar, the accomplished diplomatist, the orator, the statesman, the patriot, became over-heated in testifying in a court room, on Monday morning went to Faneuil Hall, which was cold, sat in a draft of air until his turn came to speak; "but my hands and feet were ice, my lungs on fire. In this condition, I had to go and spend three hours in the court room." He died in less than a week from the checking of the perspiration. It was enough to kill any man.

Professor Mitchell, the gallant soldier, and the most eloquent astronomical lecturer that has ever lived, while in a state of perspiration in yellow fever, the certain sign of recovery, left his bed, went into another room, became chilled in a moment, and died the same night.

If while perspiring, or while something warmer than usual, from exercise or a heated room, there is a sudden exposure to a still, cold air, or to a raw, damp atmosphere, or to a draft, whether in an open window or door, or street corner, an inevitable result is a violent and instantaneous closing of the pores of the skin, by which waste and impure matters, which were making their way out of the system, are compelled to seek an exit through some other channel, and break through some weaker part, not the natural one, and harm to that part is the result. The idea is presented by saying that the cold is settled in that part. To illustrate:

A lady was about getting in a small boat to cross the Delaware; but wishing first to get an orange at a fruit stand, she ran up the bank of the river, and on her return to the boat found herself much heated, for it was summer; but there was a little wind on the water, and the clothing soon felt cold to her. The next morning she had a severe cold, which settled on her lungs, and within the year she died of consumption.

A stout, strong man was working in a garden, in May. Feeling a little tired about noon, he sat down in the shade of the house and fell asleep. He awoke chilly. Inflammation of the lungs followed, ending after two years of great suffering, in consumption. On opening his chest, there was such an extensive decay that the yellow matter was scooped out by the cupful.

Multitudes of women lose health and life every year in one of two ways: by busying themselves in a warm kitchen until weary, and then throwing themselves on a bed or sofa without covering, and perhaps in a room without fire; or by removing the outer clothing, and perhaps changing the dress for a more common one, as soon as they enter the house after a walk or a shopping. The rule should be invariable to go out at once to a warm room and keep on all the clothing at least for five or ten minutes, until the forehead is perfectly dry. In all weathers, if you have to walk or ride on any occasion, do the riding first.

How the Ladies are "Presented" to Victoria.—The etiquette observed on a lady being presented at the British Queen's drawing room is as follows: On getting out of the carriage, everything in the shape of a cloak, or scarf, even of lace, must be left behind; the train folded carefully over the left arm, and the wearer enters the long gallery at St. James, where she waits until her turn comes for presentation; she then proceeds to the Supreme Chamber, which is entered by two doors; she goes in by that indicated to her, and on finding herself in the Presence Chamber, lets down her train, which is instantly spread out by the lords-in-waiting with their wands, so that the lady easily walks forward to the Queen. The card on which the lady's name is inscribed is then handed to another lord in waiting, who reads the name aloud to the Queen. When she arrives just before Her Majesty she courtseys very low, so low almost, but not quite, to kneel before the Queen, who, if the lady presented be a peeress or a peer's daughter, kisses her forehead; if merely a commoner, holds out her hands to be kissed by the lady presented, who having done so, rises, and making another courtsey to any member of the royal family present, passes on, keeping her face toward the Queen, and backing out of the door appointed for those to go out of the Presence Chamber.

Recent Quartz Sales in Amador.—The *Union Advocate*, of Amador county, says that Messrs. Tullock & Co. have sold their quartz ledge, near Volcano, to a Sacramento company, for $12,000. The same company purchased the ledge of Eastman & Co., at Russell's diggings, paying therefor $10,000. Bids, at heavy figures, have also been made for some of the older established mines in that county, but the owners refuse to sell.

City Stock Reports---San Francisco Stock and Exchange Board.

From the "Weekly Stock Circular" of the Associated Brokers.

San Francisco, Saturday Morning, August 12th, 1865.

There is no appreat dimiautioa ia the amouat of capital offeriag for loan purposes, hut the demand on such securities as the baokers are williag to accept, is ligbter thaa for some time past. Business reqnirements are moderate, and good mercaatile paper passes readily at 1¼@1½ ₱ cent. per moath. The fluctuatiag character of many of the stock collaterals offered iaduces continued caution on the part of lenders, and more discrimination in tbe choice of aames, as well as secnrities. Ia the open market accommodations are obtained at 1½@2½ ₱ ceat. per montb.

The receipts of Treasare from the interior mining districts, during the week, amounted to $1,200,000, makiag aa aggregate siace the 1st inst. of $2,250,000. The yield of Nevada has shown a slight falliag off since July 1st, as compared with a correspondiag period last year.

Transactioas in Bullion bave beea ligbt siace last steamer-day, most of the receipts having goae into the Mint. Returas from tbat establishmeat are now made promptly in about three days, and depositors fiad it more profitable than to sell it at current market rates. Gold Bars will realize ahout 850@860 in the Mint, aad at tbe present moment are bought hy dealers at 825@830. Silver Bars are ruliag at ¼ ₱ ceat premium to 1 ₱ cent discount.

Legal Teader Notes have beea inactive at the Board, hut large sales were made oa tbe street within a range of 73¾@74½c. Considerable amouats have beea converted this week into 7-30 Government Bouds, and a good demaad has prevailed for other purposes. We are in receipt of ao later telegraphic advices from the East.

The Sbare Market since Saturday last has been somewbat variable aad irregular. Most leadiag stocks are stronger, aad have beea dealt in at eabanced rates, while others are in rather less favor, and inactive at lower figures. No iaportant developments have been made this week, but certaia iadications were met with of sufficient eacouragement to iaduce a little speculation in a few claims. Notwithstaadiag the appareat uaremunerativo character of most investmeats at this time, a aumber of operators seem to he eager to become buyers upoa the least show of aa advaace.

Gould & Curry was sold at $1,500@1,450, aad is now held at $1,500. The receipts of bullion from tbis miae for tbe month of July exceeded $175,000, and a surplus remaiaed at the credit of the company after the paymeat of tbe last dividead. It is estimated by those who appear to be well informed on the subject, that a reserve of at least 25,000 tons of good ore can yet be takea from the upper portion of the miae.

Alpha has met with no sale tbis week, and is freely offered at $1,450. The hoistiag works of tbis company are now in successful operation, and it is thought tbe product of tbe miae will bencefortb be largely increased.

Yellow Jacket has heen ia much hetter favor, and 137 feet were sold, advanciag from $1,200 to $1,350, receding to $1,295, rallyiag to $1,350, and chaagiag baads yesterday at $1,370@1,400. During tbe last week in July tbe product of tbis miae amounted to 1,381 toas of ore, averagiag $37.19 per ton, 302 tons of which were worked at tbe company's mills, and 1,088 tons at outside mills. A aew developmeat was made tbis week in the southern portion of tbe miae wbich is said to promise well for tbe future. Tbe actual reduction of the debt of this compaay amouated to $40,071.89 over and above extraordinary expenses, which exceeded $50,000.

Savage has been tolerahly well maintained withia a range of $1,200 @1,230, closing at $1,210 bid, $1,220 asked. There is ao material cbaage ia auy portioa of this mine.

Crowa Poiat is decidedly stroager, and 75 feet were sold, advancing from $950 to $990, recediug to $980, rallying to $1,070, and closing at $1,110. The main shaft is now down below the 300 feet statioa. Tbe nortbeast end of the 230 feet level is said to show a body of ore 25 feet wide.

Belcher is inactive but stronger. Trifling sales were made at $840@900, closing at $900 bid. Hale & Norcross was sold at $550.

Ophir opened at $415, rose to $425, fell to $395, aad sold at the close at $395@365.

Empire Mill & Miaing Compaay was sold at $425 ₱ share, ex-dividend of $20 ₱ share paid on the 10th iast. Tbe receipts of bullioa from this miae for the moath of July amounted to some $70,000. Some 3,000 tons of 2d aad 3d class ore were hoisted to the surface during this period, about oae-half of which was treated at tbe company's mill.

Chollar rose from $495 to $510, buyer 30, recediag to $475, seller 30, and $485 cash, and sold yesterday at $500. Within this range 278 feet were dealt ia. Tbe southera portioa of the miae is yieldiag about 50 tons of ore per day.

Potosi has been active, and 364 feet wero sold, opeaing at $480, dropping to $455, rallying to $470, then receding to $450, and closing at about $472. Tbere is said to be ao material chaage in tbe appearance of the lower level of this mine.

Uncle Sam, early in the week, was in more favor than at the close of last week, advaacing from $270 to $315; since then it declined to $215, rallied to $250, and closed yesterday at $240@230—ia all some 834 shares changiug hands.

Overman rose to $300, fell to $200, rallied to $240, aad sold yesterday at $235@230. From the 4th and 5th levels of this mine about 100 tons of ore are aow takea, but receat crushings are said to be uafavorable.

Imperial opened at $230, fell to $220, advanced to $227½, ex-dividend of $10 ₱ share paid on Thursday, tben sold at $230, aad closed at about $226. The first cleaa up this month from the company's mills is said to be very favorable, realizing over $30 per ton.

Minerva fell from $155 to $140—assessment unpaid—aud is now held at $140. Active operations are to be resumed by the aew incorporation in the 400 feet of ground adjoiaing the Alpha claim. The Exchequer company comprises 8,000 shares of stock, aad is inquired for at $30 per share.

Bullion is in rather less favor, and 126 shares were sold, declining from $172 to $157½, and closing at $150. Confidence fell from $135 per ₱ share to $120, and sold yesterday at $120.

Daney met with a decided improvement this week, and 600 feet were dealt in, steadily advaacing from $15 to $50, aad selling yesterday at $35@41. Advices from this claim are favorable. Ia drifting west, at a depth of 200 feet from the aew shaft, a body of good ore has beea disclosed, and in runniag from the 265 feet level, under the old works, some pay ore has also beea found. Developments in the prospecting shaft, sunk on the west end of the miae are said to promise well, and from this poiut ore coataining some gold is being hoisted to tbe sarface.

Sierra Nevada has been dealt ia to the exteat of 1,500 shares, decliaing from $29 to $20, and closing at $21. North American fell from $41½ to $30, and sold yesterday at $32. Lady Bryan was sold at $6½@6; Goldea Rule at $11, and Nevada, J. G., at $15@25.

Tbe total recorded sales of stocks aad Legal Tender notes, since Saturday last, amounted to $1,126,331.

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, August 5.

24 shs Ophir at 415 per foot, s 30.
24 shs Ophir at 420 per foot, s 30.
7 shs Uncle Sam at 270 per foot.
2 shs Uncle Sam at 275 per foot
1 sh Uncle Sam at 280 per foot.
2 shs Uncle Sam at 285 per foot.
83 shs Uncle Sam at 290 per foot.
10 shs Uncle Sam at 290 per foot, b 3.
24 shs Uncle Sam at 287½ per foot.
30 shs Uncle Sam at 289 per foot.
10 shs Uncle Sam at 189 per foot, b 3.
2 shs Uncle Sam at 188 per foot.
10 shs Uncle Sam at 226 per foot.
6 shs Uncle Sam at 287 per foot.
58 shs Potosi at 480 per foot.
24 shs Potosi at 475 per foot.
24 shs Potosi at 475 per foot, s 3.
10 shs Potosi at 476 per foot, s 3.
60 shs Potosi at 472½ per foot.
6 shs Potosi at 500 per foot, s 4.
5 shs Overman at 290 per foot.
7 shs Overman at 292½ per foot.
40 shs Daney at 15 per foot.
30 shs Daney at 16 per foot.
280 shs Daney at 20 per foot.
332 shs Chollar at 500 per foot.
4 shs Chollar at 500 per foot, b 5.
68 shs Chollar at 500 per foot, b 3.
28 shs Chollar at 510 per foot, b 30.
2 shs Yellow Jacket at 1200 per foot, s 30.
5 shs Yellow Jacket at 1250 per foot.
1 sh Yellow Jacket at 1245 per foot.
1 sh Yellow Jacket at 1250 per foot, b 3.
2 shs Yellow Jacket at 1210 per foot, s 30.
2 shs Yellow Jacket at 1205 per foot, s 30.
4 sh Crown Point at 950 per foot.
10 shs Imperial at 230 per share.
20 shs Imperial at 230 per foot, s 3.
10 shs Imperial at 231 per share.
5 shs Imperial at 229 per sharo, b 3.
45 shs Imperial at 228 per share, s 3.
125 shs Sierra Nevada at 29 per share.
10 shs Sierra Nevada at 29⅝ per sharo.
30 shs Sierra Nevada at 28¾ per sharo.
20 shs Sierra Nevada at 28 per sharo.
10 shs Buraing Moscow at 30 per share.
10 shs Burning Moscow at 29½ per share.
36 shs Confidence at 135 per share, s 3.
10 shs Lady Bryan at 6¾ per share.
30 shs Lady Bryan at 6 per share.
25 shs Bullion at 170 per share.
$ 5,000 Legal Tender Notes at 74 p ct, s 30.
$ 1,000 Legal Tender Notes at 74¼ per cent.

No afternoou session.

Amount of sales.....$214,195 00

Monday, August 7.

40 shs Chollar at 500 per foot, b 30.
120 shs Chollar at 500 per foot.
156 shs Chollar at 490 per foot.
40 shs Chollar at 500 per foot, b 30.
4 shs Chollar at 495 per foot, r w.
20 shs Chollar at 490 per foot, s 3.
6 shs Chollar at 495 per foot
40 shs Saney at 24 per sharo.
50 shs Daney at 23 per foot.
176 shs Daney at 21 per foot, r w.
12 shs Uncle Sam at 300 per foot.
5 shs Uncle Sam at 302¼ per foot.
8 shs Uncle Sam at 305 per foot.
5 shs Uncle Sam at 303 per foot, r w.
5 shs Uncle Sam at 307½ per foot, s 3.
5 shs Uncle Sam at 308 per foot, r w.
8 shs Uncle Sam at 300 per foot, b 10.
5 shs Uncle Sam at 295 per foot.
26 shs Potosi at 475 per foot.
4 shs Potosi at 470 per foot, b 3.
34 shs Potosi at 460 per foot.
2 shs Potosi at 467½ per foot,
10 shs Potosi at 457½ per foot.
11 shs Ophir at 425 per foot.
3 shs Yellow Jacket at 1255 per foot.
1 sh Yellow Jacket at 1250 per foot.
2 shs Overmau at 300 per foot.
57 shs Golden Rule at 11 per share.
5 shs Imperial at 230 per share.
1 sh Imperial at 229 per share.
10 shs Sierra Nevada at 24 per share.
40 shs Sierra Nevada at 23 per sharo.
10 shs Sierra Nevada at 22 per share.
110 shs Sierra Nevada at 21 per share.
5 shs Bullion at 165 per share.
130 shs N. American, Ex Sam. at 40 per sh.
5 shs Burning Moscow at 27 per share.
2 shs Confidence at 130 per share.
$ 7,000 Legal Tender Notes at 74¼ per cent.

AFTERNOON SESSION.

40 shs Potosi at 475 per foot.
14 shs Potosi at 475 per foot, r w.
10 shs Uncle Sam at 315 per foot.
8 shs Uncle Sam at 310 per foot.
12 shs Uncle Sam at 300 per foot.
41 shs Uncle Sam at 297½ per foot.
8 shs Uncle Sam at 295 per foot.
15 shs Uncle Sam at 300 per foot, b 3.
2 shs Uncle Sam at 298 per foot.
1 shs Uncle Sam at 297 per foot.
4 shs Crown Point at 950 per foot.
4 shs Crown Point at 990 per foot, b 3.
4 shs Crown Point at 970 per foot.
12 shs Crowa Point at 980 per foot,
8 shs Crown Point at 980 per foot, s 3.
64 shs Chollar at 500 per foot.
40 shs Daney at 23 per foot.
40 shs Daney at 23¼ per foot.
120 shs Daney at 24 per foot.
2 shs Overman at 295 per foot.
20 shs Minerva at 155 per foot, ass't unpaid.
3 shs Belcher at 335 per foot.
5 shs Empire M & M Co, at 450 per share.
20 shs Sierra Nevada at 23 per share.
40 shs Sierra Nevada at 21½ per sharo.
50 shs Sierra Nevada at 22 per share.
50 shs Sierra Nevada at 22¾ per shara.
50 shs Sierra Nevada at 32¾ per share, s 10.
10 shs N. American, Ex Sam, at 41 per sh.
20 shs N. American, Ex Sam, at 41½ per sh.
5 shs Imperial at 229 per share.
5 shs Imperial at 228 per share.
30 shs Golden Rnle at 11 per shnre.
12 shs Bullion at 170 per sharo.
12 shs Cal Steam Nav Co at 77 per cent.

Amount of sales.....$186,168 00

FEDERAL, STATE, CITY AND COUNTY BONDS.

NAME.	Bid.	Asked.	Amount. Outstandiag.	Interest, Whea Payable.	Interest, Where Payablo.	Principal, When due.	Remarks.
United States Notes, 7 3-10	74½	74¾		Feb. Aug. April and Oct.	U. S. Treasury		
Legal Tender Notes	74¼	74½					
California State Bonds, 7s, 1857	80	82	3,620,500			1857	
San Francisco Bonds, 10s, 1851		105	1,352,600	May and Novembor	San Francisco	1871	
San Francisco Fire Bonds, 10s, 1854		105	170,500	Jaaaary and July	New York	1866	
San Francisco City Boads, 6s, 1855	65	—	329,000	January and July	New York	1875	
San Francisco City and County Bonds, 6s, 1858	63	65	1,133,500	Jaaaary and July	San Francisco	1888	
San Francisco School Boads, 7s, 1854			42,000	May aad November	New York	1866	
San Francisco School Bonds, 10s, 1860		100	59,500	Jaaaary and July	New York	1870	
San Francisco School Bonds, 10s, 1861		100	20,000	January aad July	New York	1870	
San Fraacisco City and County Boads 7s, 1862	73	75	300 000		San Francisco		Subscribed to S. F. & S. J. R. R.
Sacramento City Bonds		30	1,416,000				
Sacramento County Bonds, 6s	50	—	440,000				
Marysville Boads, 10s	75	77					
Stockton City Boads	72	80	220,000		New York		
Yuba County Bonds, 10s	80	90	290,000				
Saata Clara County Boads, 7s	65	75	200,000				
Butte County Bonds, 10s, 1860	69	80	200,000	Jaaaary and July	Oroville	1880	Issued to Northern California R. R.
San Mateo Couaty Bonds 7s	60	70	100,000				

SAN FRANCISCO AND MISCELLANEOUS STOCKS.

NAME	Bid.	Asked.	No. of Shares.	Incorporate Val. ₱ share.	Amoaat Paid per share.	Dividends.	Remarks.
Califoraia Steam Navigatioa Co	77½	78	2,500	$1,000	Full Paid	2 ₱ ct. ₱ moath on capital stock.	Last Dividead July 15.
State Telegraph Co	29	32	25,000	100	Full Paid	$1 ₱ sharo quarterly	Last Dividend July 12.
San Fraacisco Gas Co	91	92	20,000	100	Full Paid	1 ₱ ct. ₱ month oa capital stock.	Last Dividend August 1.
Sacramento Gas Co		63	1,000	500	Full Paid	12 ₱ ct. ₱ anaum on capital stock	Last Dividend August 1.
Spring Valley Water Co	51½	52	60,000	100		½ ₱ ct. ₱ moath on capital stock.	Last Dividend August 10.
Virginia and Gold Hill Water Co		90	2,000	250		$7.50 ₱ share ₱ month	Last Dividend June 5.
Sacramento Valley Railroad Co	—	—	8,000	100	$100		
Omnibus Railroad Co	—	—	10,000	100	41 ₱ cent.—$41.	½ ₱ ct. ₱ month on capital stock	Last Dividend March 1.
Ceatral Railroad Co		—	5,000	100		Assessment of $3 levied July 12.	
North Beach and Mission Railroad Co	39	—	10,000	100	38 ₱ cent.—$38.	½ ₱ cent ₱ math on Capital Stock	Last Dividead July 1.
San Francisco and San Jose Railroad Co			20,000	100	Full Paid		
California Building, Loan and Savings Society			2,500	100	Full Paid	1½ ₱ cent ₱ month	Dividead payable May and Nov:
South San Francisco Homestead and R. R. Ass'n	—	—	500	300			
Fireman's Fund Insurance Co	111	125	50,000	10			
Pacific Insurance Co	153	155	7,500	100	Full Paid	$6 ₱ share paid quartly	Assets July 1, $984,619. Div. July 5
San Fraacisco Insurance Co	—		300	500	Full Paid	Paid since Jan. $84,000	Assets July 1, $258,725, Div July 1.
Merchaats' Mutual Marine Insurance Co			100	5,000	10 ₱ cent.		Cash Capital $188,380
California Insurance Co			200	1,000	Full Paid		Assets $243,047—Surplus $21,583
Bank of Pacific Accumulation Loan Company			50,000	100		1½ ₱ ceat ₱ mo. on am't paid in	
Pittsburg Coal Mining Co. (Mt. Diablo)			200	500			
Black Diamond Coal Mining Co. (Mt. Diablo)	—		5 000	100			
Euroka Coal Miniug Co			4 000	25			
Bellingham Bay Coal Co			10,000	100	Full Paid	½ ₱ ct. ₱ month on capital stock	45th dividend paid.

Tuesday, August 8.

42 shs Potosi at 460 per foot.
12 shs Potosi at 557½ per foot.
20 shs Potosi at 455 per foot.
10 shs Potosi at 462 per foot.
28 shs Potosi at 461 per foot.
18 shs Potosi at 462½ per foot.
120 shs Daney at .9 per share.
120 shs Daney at 30 per share.
12 shs Uncle Sam at 290 per foot.
7 shs Uncle Sam at 292½ per foot.
1 sh Uncle Sam at 295 per foot, b 10.
3 shs Uncle Sam at 292½ per foot, s 3.
2 shs Uncle Sam at 295 per foot.
25 shs Uncle Sam at 296 per foot.
10 shs Uncle Sam at 300 per foot, b 3.
20 shs Uncle Sam at 300 per foot, s 10.
1 sh Yellow Jacket at 1250 per foot.
3 shs Yellow Jacket at 1275 per foot.
1 sh Yellow Jacket at 1260 per foot.
2 shs Yellow Jacket at 1275 per foot, s 3.
1 sh Yellow Jacket at 1270 per foot, b 3.
4 shs Crown Point at 980 per foot, s 3.
4 shs Crown Point at 990 per foot.
4 shs Crown Point at 975 per foot.
5 shs Overman at 295 per foot.
1 sh Savage at 1220 per foot, s 3.
1 sh Savage at 1225 per foot, r w.
1 sh Savage at 1215 per foot, r w.
1 sh Savage at 1214½ per foot, r w.
1 sh Savage at 1200 per foot, r w.
10 shs De Soto at 9 per share, b 30.
10 shs Sierra Nevada at 24½ per share.
10 shs Sierra Nevada at 23 per share.
10 shs Sierra Nevada at .9 per share.
250 shs Sierra Nevada at .70 per share.
20 shs Sierra Nevada at 20 per share, b3.
10 shs Caledonia Tunnel at 7 per share.
5 shs Imperial at 226 per share, r w.
5 shs Imperial at 225 per share.
5 shs Imperial at 222½ per share.
30 shs Imperial at 221 per share.
5 shs Imperial at .22 per share, r w.
10 shs N. American, Ex Sam, at 40 per sh.
60 shs N. American, Ex Sam, at 39 per sh.
$ 1,200 Legal Tender Notes at 74 per cent.

AFTERNOON SESSION.

1 sh Uncle Sam at 305 per foot, s 3.
10 shs Uncle Sam at .40 per foot, b d.
46 shs Uncle Sam at 305 per share.
5 shs Uncle Sam at 307½ per foot.
10 shs Uncle Sam at 310 per share, b 3.
10 shs Uncle Sam at 308 per foot.
15 shs Uncle Sam at 310 per share.
1 sh Yellow Jacket at 1340 per foot.
1 sh Yellow Jacket at 1325 per foot.
1 sh Yellow Jacket at 1340 per foot.
1 sh Yellow Jacket at 1350 per foot, s 3.
16 shs Yellow Jacket at 1350 per foot.
32 shs Daney at 35 per foot, b 30.
40 shs Daney at 35½ per foot.
60 shs Daney at 32 per foot.
62 shs Potosi at 462½ per foot.
10 shs Potosi at 465 per foot, b 5.
3 shs Belcher at 850 per foot, s 30.
3 shs Belcher at 840 per foot, r w.
5 shs Belcher at 830 per foot.
4 shs Minerva, G. H., at 165 per ft, as. unp.
10 shs Overman at 295 per foot, r w.
5 shs Overman at 295 per foot, s 3.
5 shs Overman at 300 per foot, s 3.
20 shs Chollar at 475 per foot, s 30.
3 shs Savage at 1205 per foot.
3 shs Savage at 1205 per foot, r w.
5 shs Imperial at 222½ per share.
5 shs Imperial at 224 per share.
19 shs Imperial at 221 per share.
5 shs Imperial at 220 per share.
5 shs Imperial at 220 per share, s 5.
10 shs Imperial at 25-½ per share.
60 shs Sierra Nevada at 20 per share.
10 shs Sierra Nevada at 20½ per share.
121 shs Sierra Nevada at 21 per share.
10 shs N. American, Ex Sam, at 39 per sh.
12 shs Confidence at 120 per share, s 3.
7 shs Confidence at 120 per share.
Amount of sales.....$216,840 00

Wednesday, August 9.

120 shs Daney at 35 per foot.
60 shs Daney at 37½ per foot.
12 shs Central at 240 per foot.
3 shs Yellow Jacket at 12.5 per foot, s 30.
11 shs Yellow Jacket at 1350 per foot.
1 sh Yellow Jacket at 1360 per foot.
7 shs Yellow Jacket at 1300 per foot, s 30.
10 shs Potosi at 470 per foot.
21 shs Potosi at 462½ per foot.
10 shs Potosi at 465 per foot.
5 shs Uncle Sam at 305 per foot.
30 shs Uncle Sam at 300 per foot.
1 sh Uncle Sam at 295 per foot.
25 shs Imperial at 220 per share.
5 shs Imperial at 220 per share, s 3.
5 shs Imperial at 220 per share, s 5.
5 shs Imperial at 221 per share.
30 shs Imperial at .25 per share.
10 shs Imperial at 225 per share.
1 sh Imperial at 223 per share.
96 shs Sierra Nevada at 21½ per share.
30 shs Sierra Nevada at 23 per share.
10 shs Sierra Nevada at 22½ per share.
10 shs Sierra Nevada at 22½ per share, b3.
80 shs Sierra Nevada at 22 per share, s 3.
140 shs Sierra Nevada at 22 per share, b3.
20 shs Sierra Nevada at 21½ per sh, s 3.
10 shs Sierra Nevada at 22 per share.
30 shs N. American, Ex Sam, at 39 per sh.
20 shs N. American, Ex Sam, at 38½ per sh.
2 shs Confidence at 1.0 per share.
2 shs Bullion at 170 per share.
25 shs Bullion at 167½ per share.
5 shs Bullion at 167½ per share, s 3.
7 shs S F Gas Co at 92 per cent.
$ 4,000 Legal Tender Notes at 75¾c.

AFTERNOON SESSION

1 sh Yellow Jacket at 1350 per foot, r w.
5 shs Yellow Jacket at 13.5 per foot.
2 shs Yellow Jacket at 1340 per foot, s 30.
2 shs Yellow Jacket at 1330 per foot.
4 shs Yellow Jacket at 1330 per foot, s 3.
3 shs Yellow Jacket at 1320 per foot.
1 sh Yellow Jacket at 1310 per foot.
1 sh Yellow Jacket at 1320 per foot, b 3.
4 shs Crown Point at 990 per foot, r w.
44 shs Crown Point at 980 per foot.
4 shs Crown Point at 985 per foot.
30 shs Minerva, G. H., at 160 per ft, as. unp.
150 shs Ophir at 400 per foot, s 30.
24 shs Ophir at 405 per foot.
12 shs Ophir at 400 per foot, s 3.
160 shs Daney at 40 per share, s 3.
40 shs Daney at 40 per share, s 10.
10 shs Daney at 40 per share.
12 shs Uncle Sam at 285 per foot.
3 shs Uncle Sam at 282½ per share.
2 shs Uncle Sam at 281 per foot.
3 shs Belcher at 850 per foot.
3 shs Belcher at 825 per foot, r w.
4 shs Potosi at 460 per foot.
2 shs Potosi at 459 per foot.
5 shs Imperial a 2 7½ per share.
5 shs Imperial at 225 per share.
21 shs Imperial at 230 per share.
5 shs Imperial at 230 per share, s 3.
10 shs Sierra Nevada at 22½ per share.
20 shs Sierra Nevada at 22 per share.
10 shs Sierra Nevada at 21 per share.
10 shs Nevada, J. G., at 15 per share.
5 shs Nevada, J G., at 14½ per share.
20 shs Bullion at 165 per share.
10 shs Bullion at 165 per share, s 3.
20 shs N. American, Ex Sam, at 37½ per sh.
50 shs N. American, Ex Sam, at 37 per sh.
Amount of sales.....$159,948 00

Thursday, August 10.

36 shs Ophir at 400 per foot.
13 shs Uncle Sam at 225 per foot.
7 shs Uncle Sam at 220 per foot.
6 shs Uncle Sam at 215 per foot.
10 shs Uncle Sam at 23 per foot.
15 shs Uncle Sam at 230 per foot.
2 shs Uncle Sam at 230 per foot, b 3.
64 shs Potosi at 260 per foot.
5 shs Potosi at 262½ per foot.
3 shs Potosi at 262½ per foot, r w.
5 shs Overman at 200 per foot.
10 shs Overman at .20 per foot.
4 shs Overman at 220 per foot, b 3.
240 shs Daney at 50 per foot.
40 shs Daney at 51 per foot.
82 shs Daney at 50 per foot, s 3.
80 shs Daney at 50 per foot, s 15,
2 shs Yellow Jacket at 1330 per foot

WASHOE DISTRICT.

Name of Company.	No. of feet in Mine.	Shares per foot.	Total No. of Shares.	Incorporate Value.	BID Per foot.	ASKED Per foot.	Last Month'y dividend Paid.	Recent Assessments Per foot.	Total Asst pr't.
Alpha	278	4	1,200	$1,000 00	$1,350 00	$1,446 00	....	Mar 29, $100; July 24, $360	$720 00
Bacon M. & M. Co	45	20	900	600 00	—	250 00	....$10, r sh		
Baltimore American	2,000	1	2,600	600 00	—	25 00	....	May 4, $5; Aug 1, $5	24 75
Baltic	1,800	1	1,800	500 00	10 00	12 00	....		45 00
Best & Belcher	224	4	896	500 00	—	200 00	....	Sept 21, $30; Dec. 23	580 00
Burning Moscow	4,100	1	4,100	500 00	25 00	26 00	....	May 18, $5; July 0, $10.	86 34
Burnside	2,800	1	2,800	500 00	3 00	6 00	....	Feb 1, 50c; May 6, $1.	11 50
Belcher	1,040	3	3,120	1,000 00	890 00	900 00	.... $51		
Buckeye	2,800	....	2,800	100 00	....	7 50	....	Dec 13, 2.50 ; April 3, $5.	30 70
Bullion, G. H	2,500	1	2,500	200 00	150 00	150 00	....	Jar 11, $30; June 0, $40.	
California	300	12	3,600	300 00	—	—	....		
Central	150	12	1,600	300 00	—	300 00	....	Aug, 2, $5	
Caledonia Tunnel	5,000	1	5,000	400 00	9 50	10 00	....	Dec 24, $4; Mar 11, $3	22 50
Crown Point	600	4	2,400	1,000 00	1,100 00	1,110 00	....		190 00
Confidence	130	12	1,560	500 00	115 00 pr sh	120 00 pr sh	....$100		
Chollar	1,400	4	5,600	300 00	500 00	505 00	.... $40	May 8, $50 ; June 28, $50.	420 00
Daney	2,000	4	6,000	100 00	40 00	41 00	....	Mar 21, $10; July 8, $5.	81 00
Desert	2,200	1	2,200	100 00	—	—	....		
Exchequer	400	20	8,000	300 00	—	—	....		27 00
Empire M. & M. Co.	75	16	1,200	633 00	— pr sh	460 00 pr sh	.... $320		
Gould & Curry	1,200	4	4,800	500 00	1,450 00	1,500 00	.... $50		
Grass Valley	4,200	1	4,200	500 00	....	....	....		
Hale & Norcross	400	2	800	500 00	—	550 00	....	April 6, $50 ; May 19, $50	675 00
Imperial	184	....	4,000	500 00	226 00 pr sh	227 00 pr sh	....$10 pr sh		270 00
Iowa	1,200	1	1,200	1,000 00	—	12 00	....		27 00
Lady Bryan	5,000	1	5,000	100 00	5 00	8 50	....	Nov. 1, $5 ; April 6, $2.	23 25
Lucerne	1,800	1	1,800	500 00	—	—	....		85 00
Minerva	890	4	3,600	500 00	....	150 00	....	May 3, $100; Jun 28, $100	
Michigan	1,500	1	1,500	100 00	....	17 00	....		
Nevada, J. G.	2,100	1	2,100	100 00	15 00	20 00	....	Dec. 19, $15; July 24, $10.	67 00
North Potosi	2,000	1	2,000	250 00	....	10 00	....	Aug 6, $12½; Oct 18, $12½	140 00
North American	4,100	1	4,100	300 00	32 00	32 00	....	Dec. 7, $2; Aug 4, $10.	
North Ophir	1,000	1	1,600	500 00	—	—	....		
Norton	1,600	1	1,000	50 00	....	8 00	....		11 50
Ophir	1,400	12	16,800	300 00	395 00	370 00	....		
Overman	1 200	1	1,200	500 00	230 00	237 00	....	Nov. 19, $50; June 29, 50.	
Potosi	1,400	2	2,800	500 00	475 00	480 00	....	May 8, $50 ; June 27, $50	102 00
Porter	600	1	600	500 00	....	80 00	....		10 00
Pride of the West	1,400	1	1,400	100 00	....	8 00	....	Oct, Nov, Dec 16, $9.	9 00
Savage	800	1	800	2,000 00	1,210 00	1,250 00	.... $75		135 00
Sacramento & Meredith	3,600	4	14,400	125 00	....	12 00	....	June 30, 50c	
Sides	500	2	1,000	500 00	....	80 00	....	Feb 7, $20; May 12, $20.	
Sierra Nevada	3,000	1	3,000	500 00	20 00	21 00	....	Feb 4, $7½	103 50
Spanish No. 2	1,600	1	1,800	500 00	....	10 00	....		
Uncle Sam	1,200	1	2,000	200 00	230 00	231 00	....	Dec 20 $80 ; June 29, $50.	278 00
Whitman	1,800	1	1,800	1,000 00	—	—	....	Mar 25, $10; Jun 18, $7½	27 50
White & Murphy	210	4	840	150 00	—	50 00	....	Oct 6, $18 ; Dec. 31, $6.	281 00
Yellow Jacket	1,200	1	1,200	1,000 00	1,400 00	1,410 00	....$100	July 21, $30; Aug 4, $110.	260

ESMERALDA DISTRICT.

Aotelopo	1,200	1	1,200	500 00	—	10 00	....		162 50
Bamboe	600	1	800	500 00	—	—	....	Sept 18, $5; June 20, $2.	21 50
Esmeralda	1,600	1	1,600	1,000 00	2 00	—	....		12 25
Falls of the Clyde	6,000	1	6,000	100 00	—	—	....	Nov 20, 60c.	2 72
Golden Age and Empire	2,600	1	2,800	250 00	—	10 00	.... $5		
Nevada	600	2	1,200	250 00	—	—	....		
Real del Monte	4,400	1	4,400	400 00	8 00	15 00	....		44 50
Silver Hill	3,000	1	3,000	500 00	—	3 00	....		8 25
Ural	400	1	400	500 00	—	—	....	Nov 18, $20.	
Utah	1,000	1	1,600	250 00	—	10 00	....		19 00
Wide West	2,600	1	2,600	500 00	5 00	6 00	....	Mar. 8, $5; May 22, $5.	105 00

COSO DISTRICT.

Coso	26,000	....	3,600	800 00	—	—	....		
Josephino	9,600	2	4,800	250 00	—	—	....	Mar 2, $1	14 00
San Carlos	....	....	2,800	100 00	—	—	....		20 50
Willow Springs	2,700	1	2,700	100 00	—	—	....		7 50

HUMBOLDT DISTRICT.

De Soto	1,980	1	1,980	100 00	—	10 00	....	Dec. 12, 2½ ; June 17, 2½	26 85
Sheba	1,800	2	3,600	500 00	—	18 00	....	Mar 14, $10 ; May 8, $10.	112 35

REESE RIVER DISTRICT.

Amador	11,200	....	1,400	1,000 00	—	—	....	Feb 28, $5	26 50
Coral	1,000	1	1,400	500 00	—	—	....		8 40
Florida	800	1	800	200 00	—	—	....		
Oregon	800	2	1,600	300 00	—	20 00	....		1 00
Union No. 2	1,000	1	1,000	500 00	—	—	....		2 50
Whitlatch	600	2	1,200	1,000 00	—	—	....	Dec 29, $10; Apr 29, $10.	36 00
Willow	2,800	....	1,400	200 00	—	—	....		
Yankee Blade	1,400	1	1,400	500 00	—	—	....		
North Star	1,000	1	1,000	500 00	—	60 00	....	May 1, $5	5 60
Gov. Seymour	1,000	1	1,000	500 00	—	—	....		1 50
Diana	1,200	1	1,200	500 00	—	—	....		1 50
Blue Ledge	1 000	1	1,000	1,200 00	—	—	....		2 00
Joe Lane	1,000	1	1,000	500 00	—	—	....		1 50
Honest Miner	1,400	1	1,400	1,000 00	—	—	....		2 00

MEXICO.

Dios Padre	2,200	1	1,920	500 00	—	40 00	....	Dec. 13, $3; May 20, $1½	50 00
Mina Prieta	2,200	1	2,200	1,000 00	—	—	....	Dec. 20, $10.	160 00
Grade Guadelupo	3,000	1	3,000	1,000 00	—	—	....		9 00
San Marcial	13,200	1	13,200	100 00	—	25 00	....		
San Nicholas	1,200	1	1,200	200 00	—	—	....	Sept 10, $2.	

MISCELLANEOUS.

Blue Ledge	7,800	1	7,800	50 00	—	8 00	....	Oct 5, $1¼ ; July 12, $1¼	
Fellows	2,500	1	2,500	100 00	—	—	....		
Melones	3,000	1	3,000	50 00	—	—	....	Oct 27, 2½ ; Mar 22, $1	
Napoleon	2,700	1	2,700	600 00	15 00	35 00	....	Jan 18, $12; June 30, $5.	32 0
Tiuno, L. C.	7,866	1	7,866	200 00	—	25 00	....	May 18, $2 July 8, $3.	

Fluctuations in Leading Mining Shares for the past Six Months.

Name of Company.	Feb. 10th.	Feb. 20th.	March 1st.	March 10th.	Mareb 20th.	April 1st.	April 10th.	April 20th.	May 1st.	May 10th.	May 20th	June 1st.	June 10th.	June 20th.	July 1st.	July 10th.	July 20th.	Augnst 1st.
Gould & Curry.....per ft.	1,565	1,825	1,750	1,960	1,900	2,010	2,015	1,975	1,800	1,480	1,660	1,525	1,625	1,645	1,750	1,750	1,730	1,600
Ophir	365	....	385	440	450	530	590	560	500	490	550	485	480	600	495	485	530	426
Savage	1,565	1,620	1,615	1,905	1,750	2,000	2,025	2,020	1,600	1,375	1,300	1,190	1,150	1,426	1,375	1,400	1,310	1,175
Potosi	750	....	750	885	900	1,130	915	870	750	425	337	212	312	467	332	350	335	480
Chollar	610	910	715	885	700	705	942	830	650	423	375	215	317	473	345	370	410	600
Hale & Norcross	260	235	240	330	350	472	625	600	450	400	455	440	400	650	560	565	570	525
Sheba	....	....	....	20	21	28	....	30	28	....	20	18	15	18	....	....	....	....
Daney	....	....	10	45	25	16	15	....	20	....	22	15	15	15	14	....	14	....
Wide West	6	....	7	14	25	13	17	16	10	9	7	5	4	3	7	8	6	....
Burning Moscow	66	64	53	49	34	37	38	50	47	41	45	40	46	57	34	29	25	29
Pride of the West	....	....	....	8	5	3	....	....	....	....	....	....	....	....	....	....	....	....
Bullion	60	115	110	115	110	110	135	151	150	155	152	135	130	165	140	175	180	175
Real del Monte	....	....	....	12	16	12	14	....	....	....	....	12	10	....	....	....	....	....
El Dorado	....	....	....	10	5	6	....	....	....	....	....	....	....	....	....	....	....	....
Overman	150	215	200	350	300	305	325	300	245	240	180	115	100	120	180	342	305	260
Sierra Nevada	13	17	18	22	23	18	26	22	16	17	14	13	12	14	15	10	14	25
Yellow Jacket	1,430	1,475	1,780	2,350	2,650	2,670	2,500	2,400	2,070	1,515	1,550	1,400	1,320	1,150	1,090	1,015	1,105	1,220
White & Murphy	....	....	....	90	25	15	....	....	....	....	....	....	....	....	....	....	....	....
Sides	....	....	....	100	50	25	....	....	....	....	....	....	....	....	75	60	....	....
Uncle Sam	350	275	325	370	325	330	320	285	250	245	200	115	100	155	185	345	307	199
Baltic	....	....	....	20	22	20	15	....	....	....	....	....	....	....	....	20	16	....
North American	16	29	31	44	41	32	34	....	30	....	25	30	28	25	23	35	42	35
Baltimore American	....	....	....	20	20	21	....	....	....	....	....	....	....	....	....	....	....	....
Melones	....	....	....	10	5	3	....	....	....	....	....	....	....	....	....	....	....	....
Antelope	....	....	....	20	15	20	23	....	....	....	....	....	....	....	....	....	....	....
Napoleon	....	....	....	50	55	50	....	....	....	....	....	....	....	....	....	....	....	....
Sacramento	....	....	....	10	5	3	....	....	....	....	....	....	....	....	....	....	....	....
Utah	....	....	....	5	5	3	....	....	....	....	....	....	....	....	....	....	....	....
Lady Bryan	....	....	9	13	8	11	....	....	....	....	....	....	....	....	....	6	6	....
Imperial	135	....	150	145	192	200	213	205	285	282	235	139	175	217	238	245	218	227
Crown Point	720	900	1,070	1,400	1,450	1,400	1,360	1,170	1,000	1,000	885	725	780	750	765	800	910	905
Belcher	1,025	1,180	1,250	1,650	1,600	1,600	1,800	1,620	1,210	1,200	1,105	925	620	695	780	775	850	805
Alpha	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1,450	1,400	1,470	....

4 shs Yellow Jacket at 1330 per foot.
1 sh Yellow Jacket at 1295 per foot, s 30.
3 shs Yellow Jacket at 1300 per foot, s 30.
8 shs Chollar at 480 per foot.
20 shs Chollar at 462½ per foot.
20 shs Chollar at 492½ per foot.
40 shs Chollar at 495 per foot, b 30.
20 shs Chollar at 485 per foot.
8 shs Crown Point at 990 per foot.
8 shs Crown Point at 980 per foot.
28 shs Crown Point at 985 per foot.
9 shs Belcher at 850 per foot.
8 shs Belcher at 855 per foot.
5 shs Belcher at 850 per foot, s 3.
9 shs Belcher at 850 per foot, r w.
4 shs Gould & Curry at 1500 per foot.
5 shs Golden Rule at 12½ per share.
5 shs Imperial at 225 per share.
15 shs Imperial at 227½ per share.
40 shs N. American, Ex Sam, at 30 per sh.
40 shs N. American, Ex Sam, at 31 per sh.
30 shs N. American, Ex Sam, at 30½ per sh.
55 shs Sierra Nevada at 31 per share.
10 shs Sierra Nevada at 20¼ per share.
17 shs Bullion at 163 er share.
5 shs Bullion at 162½ per sh, Tuesday.
5 shs Nevadn, J. G. at 14½ per share.

8 shs Confidence at 120 per share.
$ 5,000 Legal Tender Notes at 74½ per cent.

AFTERNOON SESSION

35 shs Uncle Sam at 220 per foot, s 30.
13 shs Uncle Sam at 230 per foot.
2 shs Uncle Sam at 240 per foot, s 3.
22 shs Uncle Sam at 255 per foot.
10 shs Uncle Sam at 230 per foot, s 5.
6 shs Uncle Sam at 230 per foot, s 3.
5 shs Uncle Sam at 235 per foot, Monday.
5 shs Uncle Sam at 230 per foot, sten. day.
5 shs Uncle Sam at 230 per foot, Monday.
2 shs Uncle Sam at 237½ per foot, b 30.
5 shs Uncle Sam at 240 per foot, b 30.
1 sh Uncle Sam at 268 per foot.
28 shs Crown Point at 995 per foot.
4 shs Crown Point at 985 per foot, s 3.
28 shs Crown Point at 99 per foot.
4 shs Crown Point at 990 per foot, s 3.
5 shs Yellow Jacket at 1350 per foot.
1 sh Yellow Jacket at 1350 per foot, r w.
2 shs Yellow Jacket at 1350 per foot, s 3.
1 sh Yellow Jacket at 1345 per foot, s 15.
1 sh Yellow Jacket at 1310 per foot, s 30.
5 shs Yellow Jacket at 1330 per foot, s 30.
3 shs Belcher at 850 per foot.
3 shs Belcher at 860 per foot.

30 shs Potosi at 465 per foot.
12 shs Ophir at 400 per foot.
12 shs Ophir at 395 per foot.
60 shs Daney at 50 per foot.
40 shs Daney at 50 per foot, b 10.
4 shs Overman at 241 per foot, s 3.
108 shs Imperial at 230 per share.
170 shs N. American, Ex Sam, at 31 per sh.
10 shs N. American, Ex Sam, at 30, b 3.
10 shs N. American, Ex Sam, at 31, b 10.
80 shs N. American, Ex Sam, at 30 per sh.
10 shs N. American, Ex Sam, at 30½ per sh.
5 shs Bullion at 160 per share, r w.
20 shs Bullion at 157½ per share
15 shs Sierra Nevada at 21 per share.
Amount of sales.....$208,050 00

Friday, August 11.

24 shs Ophir at 395 per foot.
33 shs Uncle Sam at 250@245 per share.
5 shs Uncle Sam at 250 per foot, b 30.
9 shs Uncle Sam at 243@242 per share.
5 shs Uncle Sam at 240 per foot, s 3.
15 shs Belcher at 860@872½ per foot.
5 shs Yellow Jacket at 1325@1340 pr ft, s 30.
4 shs Yellow Jacket at 1370@1340 pr foot.
4 shs Gould & Curry at 1450 per foot.
40 shs Imperial at 225@229 per share.

2 shs Hale & Norcross at 550 per foot.
32 shs Crown Point at 1050@1060 per foot.
38 shs Chollar at 495@500 per foot.
5 shs Golden Age & Empire at 6 per sh.
420 shs Daney at 35@40 per share.
38 shs Potosi at 470@471½ per foot.
6 shs Potosi at 480 per foot, b 5.
225 shs Sierra Nevada at 20 per share.
55 shs Burning Moscow at 25 per share.
150 shs N. American, Ex Sam, at 32@31.
10 shs Spring Valley W W at 52 per cent.

AFTERNOON SESSION.

3 shs Yellow Jacket at 1370@1370 p ft, s 30.
12 shs Yellow Jacket at 1395@1400 per foot.
360 shs Daney at 35@41 per foot.
24 shs Chollar at 500 per foot.
40 shs N. American, Ex Sam, at 31 per sh.
10 shs Empire M. & M. Co at 425 pr share.
48 shs Crown Point at 1055@1110 per foot.
96 shs Ophir at 360@388 per foot.
20 shs Bullion at 150 per share.
40 shs Exchequer at 30 per share.
25 shs Uncle Sam at 210 per foot, s 30.
45 shs Uncle Sam at 2.6@227½ pe foot.
5 shs Belcher at 890@900 per foot.
6 shs Potosi at 472 per foot.
Amount of sales.....$131,150 00

works, was established the Mechanics' Institute of San Francisco, with its occasional exhibition of the products of the genius and handicraft of the mechanics of our State.

It is in comparison of results, that rivalry is encoursged. It is in the exhibition of modols snd improved machinery that invention is stimulated. It is healthful and pleasant to mingle together in social and intellectual companionship.

The occasional Fair and report is a milestone upon the road of progress, while the financial profits huy books for the library and turnishes reading room and club, where conversation, smusement aud recreation affords a relief from the weary tedium of constant lahor.

California hss made rapid and substantial progress in sll the practical and elegant arts, but still there is a wide field before us for further advancement.

It is but a brief period of time since this, our beautiful State, was almost unknown to tho civilization of the world. It lay like a white and glittering pearl upon the ocean's shore; valuelcss in its unnoticed heauty, till found and set with other jewels in our glorious diadem of States. Less than twonty yoars ago, where we now assemble, the coyote called his mate; and in the chspparel of the sand hills, the long-earcd rabbit found his home; in our harbor a single hide drogher swung lszily at anchor, awaiting its freight of skins and tallow. Now mark our great metropolis with its enterprize, its learning, and its wealth. Now mark our husy commerce, that plies to every ocoan; then our glorious valleys lay husking idly iu the sun; now, teeming with husy industry, ladón with hending grain, our hill-sides rosy with the fruitful vine. Then our mountain cavorns held enchanted wealth, till touched with the magic of industry, the spell wss hroken and poured their streains of golden plenty through the land.

I know it is a hackneyed theme to dilate upon the fertility, resources and greatness of our Stste; I know we aro accused of vanity and hoasting; when abroad we undertake to descrihe the marvels of our wondrous land, but who that hss lived famid its pleuty, and drank from its cup of bounty, who that has breathed its glorious stmosphere snd trod upon its fertile soil, that does not love this new home of our sdoption, nnd love it the more, hecause it is ours and new? Beoause hy our valor we conquored it; by our industry we created it; hy our enterprize we have developed it, and hy our loyalty we have aided to maintain it.

We are vain and proud, not only of what we are, hut for what we propose to become—first of the American States; first in morals, learning and wealth; first in agriculture, msuufactures and commerce; first in wine, and wool snd gold; first in industry, enterprize and genius; first in hrave and honorable men, as we are now first in beautiful and virtuous women.

The Lexington Oil Well, owned by the Santa Clara Petrolcum Co., and located near the Moody saw mill, in Santa Clara county, is now down 230 feet. This well is under contract to be hored to the depth of 400 feet. At the depth of 220 feet a seam was struck which it was estimated would yield about five barrels in twenty-four hours. That nmount would be largely increased by opening the seams which had been found above. All the seams nre now closed up by the tubing, and the contractors will continue boring until the depth of 400 fect is reached, unless a flowing stream should be found sooner, and the contractors released from their obligations. We have seen a series of samples of this oil, exhibiting it in its crude state, and also refined, showing the illuminating oil, the lubricating oil, the benzine and the tarry residuum. An assay, by Prof. Benoist, gives the following result: Burning oil, 55 per cent; lubricating, 25; benzine, 5, and tarry matter and water 15, much of which might be utilized by a more complete proccss. Much intercst is felt in the degreo of success which may attend the opcrations at this well, as they will be considered indicative of the value of the entire district.

Sound and Light.—Sound is thought to be produced by the vibrntion of gravitnting matter; whilst *light* is supposed to be produced by a similar vibration of the particles of a nongravitating matter, cnlled luminiferous (light-bearing) ether. It is a principle of resonance, that if we sound by voice or instrument a given note in the immediate vicinity of a pianoforte, the string which when struck gives out the vibrations due to that note, immediately takes it up, absorbs it, as it wore, and again gives it ont as an answering sound of slighter intensity; so the lumiuiferóns gases, as ether, are capable of absorhing a transmitted ray of light and emitting the same with a diminished intensity.

The tongue was intended for the divine organ, but the devil often plays upon it.

sort of an intangihle, vsgue helief that to drive them out would be in contravention of some treaty hetwoon the Empire of China snd the Government of the United States, or would come in conflict with some clause of the Constitution of the United States.

It seems very strsnge, that as a sovoreign State, we hsve not the right to abate this evil, and put an end to it. We have a right hy the enactmeut of qusrantine laws, to prevent the introduction of contagion and disease among us, yet we have not the right to prevent persons from coming to the State tainted with infectious diseases; laws may he enacted to prevent the spread of pestilence, and yet we. must, in order to encourage commerce and that we may not interfere with any laws of Congress for its regulation, suffer our State to ho inundated with this moral coutagion.

We pass laws preventing the introduction of licentious books, immoral paintings, srticles of gaming, tainted food, dangerous preparations of gunpowdor and all nuisances, and yet we may not he permitted, in the exercise of the same power, to exclude a class of humanity, who are licentious, immoral, gambling and dangerous.

We may, by State laws, throw overboard from any foreign ship, such goods as are hurtful to our health or destructivo to our morals, and yot a ship comes into our harbor loaded down with Chinese prostitutes, reeking with filth, stinking with strange odors, rotting with strange diseases, and tbey must be admitted as part and parcel of the community; wo must mix and mingle with them; eat from the same markets, traverse the same streets, and hreathe the same atmosphere.

I do not concede that hy it the Chinese are not equally taxed, that in the compact between the State and themselves they aro not fairly treated and honorably dealt with. The State says to the citizens of the Empire of China, we know your exclusive laws, we know your peculiar vices, your contagious diseases; you wish to come to our country, dig our gold and temporarily remain here till you can accumulate enough to make you independent on your return. You will not bring your families, you will not seek homesteads among us, you will not even bring your virtuous women to the State. You will bring your prostitutes to minister to your lusts and scatter disease and death among our dissolute snd depraved, you will not acquire property that we may tax, you cannot hecomo citizens; we will exact from you neither jury duty nor require you to perform military service. You may not organize yourselves into fire companies, nor shall any public service he required of you. We will send our ships for you and bring you here at a low price of passage. We will settle your disputes in our Courts, we will protect your trade by our laws, we will guard you by our police, we will maintain your sick in our hospitals, we will guard your criminals in our prisons and our jails; you shall go to our mines and dig our gold and take it home with you to China without stamps on your hills of lading or tsx on your exports; worship Josh after tho dictates of your own stomachs, and in your pagan mummeries none shall molest or make you afraid; you shall feed your dead ou pork, and your living on fish caught from our waters, and rice of your own importation—and for all this you shall contribute to the support of our various governments, municipal, county and State, aud if you are not content to do this you may leave the country.

Perhaps a hroader humanity than mine would welcomo to our land and to the equality of our laws, all the tawny races of the world. And while I hope that my liberality is not hounded or circumscribed by sympathy for my own race snd color alone, I would still in my selfish love for the Saxon family save America for the Saxon rule. I would say to the descendants of Attila, Janghis Kahn and Tamerlane—to the worshipers of Josh and the diciples of Confucius, stay in your own rich and populous Empire—we want none of you. China is yours. Keep it. Let your people imitate the valor of their ancestry; let them perform their deeds of heroism in flinging stink-pots amid the clanging gongs of their own civil wars; let them pursue the crnft of their cunning toil, carvo their gaunt images for toys, and from ivory whittle their ingenious puzzles, raise their tea and rice; we will trade with you, and, in exchange of commodities, he ever civil. Your merchants may do business in our ports, and ours shall live in yours. We will maintain with you the faith of commercial treatios, hut our soil shall never hecome tho refuge of your redundant population. The Anglo Saxon rnce will carve out its own destiny, in its own way, will make its own laws, mould its own charactor on tbe continent where Providence has placed it.

I would enact laws to prevent their women and their gamblers from coming to our shore; and if for a time we permit their industrious laborers to find a home among us, it should only he hecause they are useful to us. With my consent none of tbe race should be horn upon our soil. Tbus, if their numhers ever hecome embarrassing, we could legislate against them, and the ovil would die with the generation.

The length of my manuscript admonishes me that I must not too far tax the patience of the institution, that has so honored me this evening. I have only heen able to glance at topics of interest, in every one of which there is material for profitable reflection.

For the purpose of making California truly great and truly prosperous, to contrihute towards the huilding up of a State upon this coast, that should become the admiration aud envy of all, and for the purpose of making the industrial interests to he known and sppreciated; for the purpose of aiding in these great gives Congress the power to regulate commerce with foreign nations—Judge Field dissenting.

The Court undertook to find nn analogy hetween this case and a law of New York and Massachusetts, which put a tax upon alien passengers arriving in the ports of New York and Boston. In the argument of that case it was my duty, as attorney for the State, to endeavor to sustain the law. One or two extracts from the brief filed at that time, express my unchanged opinion upon the propriety of inviting to our shores a race with which we can never assimilate.

In commenting upon the passenger laws I ssid New York aud Boston, the two great emporiums of American trade, the two grest entrepots of foreign commorce, sought to impose for the benefit of their respective localities (already grown rich and prosperous from this trade), a tax upon alien passengers. These aliens were tho sturdy, industrious immigrants of Christian Europe; they had duriug half a century and more huilt up the great empire of the Americon Union; they were then contributing to the settlement and development of the West. Before their sturdy march forests disappesred, the Indian retired, snd civilized States sprsng up in their path.

To secure this immigration had heen the chosen policy of tbe Government. Laws of naturalization were made for its encourssement. Immigration societies sent apostles to preach the inducemonts of American residence throughout Europe. Great political parties vied with eacb other in this hid for immigration, and then hid for proselytes to their political faith. It was not, therefore, strange that when two cities on the sea-coast sought to make their ports the golden gates through which this current of passengers should pay tributo, that every sentiment of fairness should array itself against this selfish extortion; that this sentiment penetrated within the sacred precincts of the Courts, and that even the Judges of the Supreme Court of the United States, always somewhat inclined to enbance their own dignity of position by taking power to tbe tribunal over which they presided, caught this opportunity of taking power from States and conferring it upon the United States.

But how would it have heen if, instead of the two cases from New York and Boston, where by State laws they sought to exact a tribute from the poor immigrant whom the whole nstion was coaxing to its shores, there had been presented the csse of the People of the Stste of California against Downer, in 7 California Reports, where the People of California had, for the purpose of discoursging Chinese immigration, imposed a tax of $50 upon their landing, and the argument had gone to them in this wise: The State of California had heen conquered from Mexico by tho hlood of our citizens, had heen settled by the enterprise of the young men of the American people; hore they had hrought their families and made their homes; here they had discovered inexhaustible rsources of mineral wealth—gold, silver, copper, quicksilver and coal. Geographically, we are on the very western verge of the coutinent, and this hrings us in vicinage with Asia and its redundaut millions of inhahitants, who possoss all the vices, follies and diseases incident to redundancy of population.

An avaricious people, they have been induced hy greed of gold to hreak down their harriers of prejudice, and withdrawing themselves from the isolation of centuries, they have overloaped their great wall of Chinese exclusiveness, and are, like the lice and frogs of Egypt, overrunning our people; they inundato our shores and hasten to our mines to rob us of the gold which is the inheritance of our miners; they bring their own supplies, that they may not enrich our merchants; they bring no wives or virtuous women to our land; tbey speak not our language and seek not to acquiro it; they do not attend our schools and hring none of their youth who might in time assimilate with our people; they are of a different race, lineage and tongue, and cannot mingle with us; tbey believo not in tbe Christian religion, worship not the Christian God, but bring with them the graven imsges of their idolatry, and avoiding our Christian churches huild their heathen temples, and practice their barbarous rites in our midst. By the laws of China, virtuous women are forbidden to immigrate, and in their place comes the most vile and ahandoned from their sea ports, with dresdful diseases that defy the skill of surgery and the art ot medicine; in the midst of our strcets, in the presence of our wives and daughters they practice with shameful impudence their hrazen arts of harlotry. Accompanying them is the gamhler, the opium eater, the debauchee, who live with and upon these abandoued women and make night hideous with the insane ravings of their intoxicated madness and the howlings of their strange excitement.

As an offset to this demoralization, they come in our ships, as they have none of their own; tbey huy boots which they have not the ingenuity to make, they consume some hraudy of most poisonous kind, they ride in our stage coaches from ono mine to another as they deplete our placers; they import and sell goods and trade with each other, to the injury of our merchants; they hring not here any part of the usoful industry of their country; they import their rice but make no effort to produce it from our tule lands, useless for other cultivation; they import their sugar, nor seek to ndd to Calbfornia's productions by attempting to raise it here. In a word they are a nuisance in socicty, are useless to the commerce of the State, are a curse in the community, and are only endured hy a patient people hecause there is a

I shall not disouss the question of slavery, it has had its day, it has performed its mission and slavery no longer exists in the land. But we have n duty to perform toward the emsncipated hlacks, from which we must not shrink nor turn back. They must not be imposed upon by their former masters; idleness and vagrancy must not he permitted, ignorance removed, industry euforecd, and justice, hetween master and servant, firmly administered.

The African wss born on Southern soil, and however hard may have been his lot, he is attached to that soil; to him the plantation is home, and the South his native land. It is his natural right to live whore he wss born; to die on the soil which gave him birth and on which long generations of his ancestors have toiled, is his legitimate heritage.

It is a remarkable fact, that during this long and hloody civil war, the issue of which involved the freedom of the slave, there was no slave insurrection, not an organized strike for liberty. Whether the negro was content with his lot, whether he wss hrutalized with long gonerations of servitude, whether he was ignorant of the principles at issue, or whether he reposed upon the conviction that his deliverance was in the hands of a highor and mightier authority, we know not; the fact is nevertheless a remarkable one, that within the sounding roar of artillery that thundered forth to him the hope of freedom, ho was content for four years to do his master's work; not from fear, because when on the hattle-field ho exhibited a courage equal to the nohlest race; not from ignorance, for wherever tho armies went, there had gone before them tho informstion of the war; not because the black lacked fidelity to the hope of their emancipstion, for the loyal fugitive could always depend upon the aid of the slave, to guide, and feed, and protect him. I account for this fact in no other way than this; the African loves the spot of his hirth; he is timid and not self-reliant; he loves his home; he is held hy the memories of childhood days; he is attached to his domestic hearth; he will not willingly sever the ties that hind him to home, and wife, and child, and mother, for the uncertain exporiment of freedom in a strange part. This element iu the uegro character, will, in my opinion, enter into and make easy tho establishment of new relations hetween the master and the slave. Mutusl interest will control, and I look forward to the speedy coming time, when in all the Southern States, the master sball become a paying employer, the negro a willing lahorer, with contentment and prosperity to hoth.

Let the Negro fill the position which God has given him. Let him he protected in his freedom; in bis domestic ties; let him be compensated for his labor; let him be educated to the extent of his capacity; let him he protected in his life and property; let him have freedom of religious worship, snd let him be content.

Either his race, or mine, is the superior. I think mine is, but whether it is or not, becsuso it is mine, I would have it retain all the political power; I would not invest the Negro with the privilege of the elective franchise; I would not qualify him as a juror or enable him to hold office or in any wsy seek to esta lish with him relations of social equality. From centuries of darkness he emerges to the light of a hrilliant day, and at a fearful cost to our country; after generations of ignorance and slavery, though not his fault, he must serve some time a pupilsge to intelligence and freedom. When, in later years he shall havo demonstrated his capacity for the responsible enjoyment of the electivo privilege, it will then be timo enough to consider it. I would rather limit the elective privilege, by taking it awsy from the ignorant, the vicious, and the disloyal of my own race, than by indiscriminate extension to tho Africau aud Mongolian.

In reference to the Chinese: It must be ad mitted that there are some present nnd immediate henefits attending the presence among us of the industrious working male; they work exhausted placers, content with smaller gains than the white laborer, and it is undoubtedly desirable to extract this gold and give it circulation, although but even a small percentage inures to the benefit of the country, rather than have it buried in our hills. The Chinese do much of the menial work, and are employed in certain classes of manufacturing with profit, doing that lighter work which in Europe is performed by women and children, and thus perhaps, enabling manufacturés to employ white laborers in greater number by reason of their profits from the Asiatic.

But, in my opinion, the evils to be anticipated from Chinese immigration outweigh all the henefits, and that it is not wise or prudent to advance our national interests at the expense of the moral welfare of our people. While therefore, I am prepared to concede the desirableness of certain classes of tho Chinese, their merchants, and industrious laborers, and concede that they are innoffensive and law-abiding, I must not omit tbis opportunity to denounce as hurtful and destructive, the immigration of their women, their gamhlers and opium eaters, whose presence in our towns aud villages is most demoralizing and whose existence in the very heart of the city of San Francisco, is an offeusive sight.

Our Supreme Court in the caso of Lin Sing against Washburn, has determined that the Act of 1862: "*An Act to protect free white labor against the competition with Chinese Coolie labor and discourage the immigration of the Chinese into the Stote of Californio,*" was an violation of the Constitution of the United States, which

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San Francisco:

Saturday Morning, Aug. 12, 1865.

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

Canvassing Agents.

We would call attention to the following named agents of the MINING AND SCIENTIFIC PRESS as gentleman worthy of the countenance of any community which they may visit, and assistance rendered them in their efforts, by friends and old patrons, or our brethren of the PRESS, will be acknowledged as a personal favor to us:—

Mr. Robert Lattimore—Amador and Alpine counties and the State of Nevada.

Thos. Poyzer, of Orass Valley, for Nevada, Yuba and Sierra counties.

NEWSPAPORIAL.—The Red Bluff *Independent* has come to hand enlnrged and otherwise improved. It has jnst entered upon its sixth volume. The Napa *Register* has entered npon its third volume, and is doing yeoman service for its locality. The Folsom *Telegraph* commenced n new volnme with its issne of the 5th instant, and looks hright nnd new as ever. Thnt sterling journal, the Stockton *Independent*, one of the ahlest pnpers on the Pacific coast, has jnst entered upon the fifth year of its existence. The California *Rural Home Journal* has completed its first half-yenrly volume, and is one of the nentest and best agricultural journals published.

HEAVY RAILROAD TRANSACTIONS.—It is said thnt the Californin Steam Navigation Company has purchnsed the Onkland Ferry nnd Railroad line, and thnt the railroad is to he extended to Goat Island. It is also rumored that the Almeda Railroad is to he consolidated with the Oakland road. If the consolidation is effected, it is said that the preseut route of the Alameda rond, from High street station to Snn Leandro, will be nbnndoned, and a new route for the consolidated compnny located east of tho telegraph road. It is also stated that George F. Bragg, President of the Snramento Valley Railroad Company, in hehalf of himself and severnl capitalists of this city, has purchased the interest of Pioche, Bayerque & Co., and L. L. Robinson, in that road, amounting to nearly one-half of the stock.

VERY PROPER.—It is proposed to erect a magnificent hridge over the Potomac at Washington, as a monument to the late President. It is to he called "Lincoln Bridge," nud n colossal statue of Mr. Lincoln is to ho placed in the center, or nt one end of the structure. Such monuments are far more appropriate than piles of marhle or grnnite designed for show only.

A HUGE LOAD.—Mr. Samuel Corrington recently hauled a little over *ten tons* from Placerville to Gold Hill, Nev., in one wagon, drawn by ten mules.

EXPERIMENTS WITH GUN-COTTON.

Some time ago we called the public attention to the experiments with gun-cotton in blasting, which were then in progress in several of our principal mines. We are now able to lay before our readers the results of what appears to have been a very thorough investigation.

Many years have elapsed since gun-cotton was first manufactured. In 1846 it was confidently predicted that the material would supercede gun powder, both for artillery and blasting, but owing to the occurrence of several disastrous explosions, which were ascribed to the spontaneous ignition of the gun-cotton, its manufacture, in any considerable quantities, was not, until recently, undertaken. The new process, invented by Baron Lenk, an Austrian, was patented, and extensive works for the manufacture of the gun-cotton were erected by Messrs. Thomas Prentice & Co., of Stowmarket, England—men of great enterprise and large means. The shipment of their patent gun-cotton to California was, we believe, the first attempt made to introduce it on this continent (although its stability and value had already been thoroughly demonstrated) and we doubt not that intelligence of the results of the experiments here, is awaited with interest. Before we proceed to show these results, we will give a brief summary of the advantages which such men as Professor Abell, F. R. S., Professor E. A. Hadow, F. G. S., and John Scott Russell, F. R. S., the civil engineer, maintain in favor of gun-cotton:

1. There is no smoke from the explosion of gun-cotton.

2. Time, damp and exposure do not alter the qualities of gun-cotton. It has already been preserved ten years without injury or decay.

3. It can be transported through fire without danger, by simply being wetted, and when dried in the open air it becomes as good as before. In case of a building or a city being on fire, this quality may he of the greatest valae.

4. It is much safer than gun-powder, owing to its being manufactured in the shape of rope or yarn. Loose gun-powder escaping from its package, or spilled by accident, is a constant danger or cause of explosion, from which manufactured gun-cotton is free.

5. The manufactured gun-cotton has the peculiarity of being entirely free from the danger of spontaneous combustion, and it is constant and unalterable in its nature.

6. In driving tunnels through hard rock, a charge of gun-cotton of given *size* exerts double the explosive power of gun-powder, so as to render a smaller number of holes necessary.

7. Gnn-cotton also may be so used as, in its explosion, to reduce the rock to much smaller pieces than gun-powder, and so facilitate its removal.

8. As gun-cotton produces no smoke, tho work can proceed much more rapidly, and with less injury to the health of the miners.

9. In working coal mines the advantages of bringing down much larger quantities of material with a given charge, and the absence of smoke in the explosion, enahle a much larger quantity of work to he dono in a given time at a given cost.

10. The weight of gun-cotton required to produce a given effect in mining is only one-sixth part the weight of gun-powder. By the purchase of gun-cotton the miner economizes greatly in the cost of freight.

In regard to the relative power of gun-cotton and gun-powder, Mr. Scott Russell, in a recent address, said:

> The next application made during the past year was to the driving of tunnels, shafts and drifts, in connection with engineering applications. It was stated by the committee that one-sixth of the weight of the charge of cotton was equal in blasting effect to gunpowder, and this had been proved in practise in a number of instances. At Wingerworth colliery one-thirteenth of the weight of gun-cotton, as compared to gun-powder; in the slate quarries at Llanberis, at Allen-Heads, one-seventh was required. At Allen-Heads, at some lead mines, a canal was being driven seven miles long. The drift was seven feet by five in the hardest limestone. Both ends were worked by gun-cotton fired by an electric battery. The great advantage experienced was that the air was not contaminated by smoke, and that the work could be carried on more rapidly. The next application had been made to the detaching of large masses of rock. This had been tried in several places, and it was found that one pound of gun-cotton was able to detach from thirty to sixty tons of rock.

Now, then, we come to the experiments to test the valno of gun-cotton which have been made in our own State. After an investigation extending through tho period of two weeks, at the New Almaden Quicksilver Mines. Tho eminent mining engineer, C. E. Hawley, Esq., reports as follows:

> QUICKSILVER MINING COMPANY,
> NEW ALMADEN MINE, Cal., July 12, 1865.
>
> During the past fortnight we have been using at these mines the gun-cotton furnished by you. At first the experiments were made under my own supervision, and I can bear witness, from my own observation, to the value of this explosive agent in mining.
>
> The gangue rock of the Almaden vein is very hard magnesian lime-stone, in many places worth thirty dollars per foot (lineal) to work in ordinary drifts of six feet by five. In other parts of the mine the rock is partially decomposed and easy to work. To my surprise, the miners in soft rock are more desirous, than any others, of using gun-cotton.
>
> In the hard rock the cotton is fully as effective as the ordinary blasting powder, with the material advantage over the latter of breaking the rock into smaller fragments. This would be an economy to us, both in handling in the mine and in cleaning the ore upon the plantilla.
>
> Its strength, when compared with an equal weight of gun-powder, appears to be much greater than the latter.
>
> But the most valuable quality it possesses for our use is its freedom from smoke. This vein is extremely irregular, and its workings of great extent. Good ventilation cannot be maintained everywhere, and some of the richest "lahores" in the mines are now seriously delayed by the smoke of blasting powder. The perfect freedom from smoke, of the gun cotton, would warrant us in using a limited quantity at considerable greater cost than blasting powder.
>
> I have looked carefully for evidence of danger in tamping, and have had it tested by various means, but so far as my limited experience of it goes, it is quite as safe as powder.
>
> A longer acquaintance with it will probably develop new features which I do not now see. A brief experience has much surprised and pleased me.
>
> I return to you herewith the two pamphlets upon gun-cotton which you loaned me. When you receive others, will you be so kind as to let me have one of each? Also, permit me to suggest the advantage of making the gun-cotton better known in the mines of the Eastern States. If you can forward pamphlets to Mr. Thomas Phillips, Scranton, Luzerne county, Pa., and to Hon. H. B. Wright, Wilkes-Barre, Pa., these gentlemen being engaged in the most extensive coal operations of the United States, would probably be benefitted themselves and influential in behalf of your trade.
>
> I send an order to-day, etc.
>
> Yours, truly,
> C. E. HAWLEY,
> Mining Engineer.

In the county of Nevada the material was tested in the hard rock of the famous quartz mines of that region. The Superintendent of the New York Company reports:

> NEVADA CITY, Cal., July 24, 1865.
>
> I take pleasure in stating to you that the experiment in the Sneath & Clay mine, of gun-cotton for blasting, was a perfect success. The charge ignited quickly, exploded clearly, and broke the rock fully as much as a larger charge of powder could have done. There was no smoke attending the discharge.
>
> Dry or wet blasting, I think it is superior to powder, and can be used with more safety.
>
> Yours, truly, STEPHEN P. LEEDS,
> Superintendent N. Y. & G. V. M. Co.

And Captain G. W. Kidd, who is well known everywhere to Californians, writes:

> NEVADA CITY, August 1, 1865.
>
> We have tried the gun-cotton charges you left with our superintendent of the mine, and find the gun-cotton gives entire satisfaction. It certainly is preferable to powder in a mine. All we regret is, you have not yet a supply for us.
>
> We are, yours, truly,
> S. S. B. G. & S. M. CO.
> Per GEO. W. KIDD, Sup't,

Further, the gun-cotton has been introduced to the copper miners of Calaveras, and they add their testimony of the valuc of the material. The superintendent of the "Napoleon" says:

> NAPOLEON MINE, June 16, 1865.
>
> I have, by your request, made a trial of Baron Lenk's gun-cotton. The result has been very flattering. Of its power, execution, economy and safety, there can be no donht. It makes (in blasting) but *very* little smoke, being a great advantage in a mine.*
>
> Very respectfully, yours, etc.,
> JOHN A. STEINBERGER,
> Superintendent Napoleon Mine.

And Mr. Miller, of the Live Oak, certifies:

> PHILADELPHIA & PACIFIC COPPER MINING CO., Live Oak Mine.
>
> I have, at your request, made a trial of the Lenk gun-cotton. The result has been a thorough proof of its value. It makes no smoke, is of full power, and possesses every quality required for blasting purposes.
>
> JAMES MILLER,
> Captain of Mine.

The gun-cotton has been tried under the superintendence of Gen. Van Bokkelen, in the Alamance tunnel, Virginia City, with the same successful results. Tho Virginia *Union*, in an editorial on the subject, predicts that gun-cotton will eventually he in universal use for mining.

Before we close this satisfactory testimony to the value of gun-cotton, we may properly add that the shipment which has thus been tested, came *via* Cape Horn, and the captain of the vessel in which it was brought, speaks thus of the comparative safety of gun-cotton as freight:

> SAN FRANCISCO, March 10, 1865.
>
> In reply to your enquiries as to gun-cotton, I have to say, that I should prefer to carry said article as freight (packed and boxed as the two cases shipped from London, per Bnn. bark "Hermine," under my command, were) than gun powder packed in the ordinary manner, i. e., wooden kegs.
>
> very respectfully, yours, T. H. BERRY,
> Master of the Bark "Hermine."

We might pnblish other testimonials, hut as the foregoing seem to cover the whole question, we will close hy saying that any further information which may he required, will be furnished hy Rockwell, Coye & Co., merchants, the sole agents for tho sale of the gun-cotton.

*The "little smoke" observed was made by the combustion of the fuse.

GENIUS AND LABOR.—Alexander Hamilton once said to nn intimnte friend:—Men give me some credit for genius. All the genius that I have lies just in this: When I have a subject in hnud, I study it profoundly. Day and night it is before me. I explore it in all its hearings. My mind becomes pervnded with it. Then the effort which I make is what the people arc pleased to cnll the fruits of genius. It is the fruits of labor and thought."

THE NICHOLSON PAVEMENT.—Measures are in progress which will probably resnlt in having nearly the entire length of Montgomery street laid down with the new Nicholsou pavement. The recent test of a section of this pavement in having thirty-five tons' weight pass over it on four wheels, without producing the lenst disturbing effect, while the cobble stones were repeatedly crnshed down so as to require the nid of n jack-screw to get the wheels out, appears to have pretty effectually settled the strength and endurance of this pavement.

CANNON AT RICHMOND.—Government is rnpidly dismantling the fortifications at Richmond and Petersburg, and shipping the cannon, etc., to the Washington and other Northern nnvy-yards and arsenals. The number of cannon of all kinds, siege and field, is much larger than was originally snpposed. At Petersburg, just hefore its evacuation, many cannon were buried and head-boards put up nt each end, to resemble soldiers' graves. The negroes, always loyal to the North, immediately revealed the trick, and upwards of one-hundred field-pieces have already been exhumed. The nmount of war material now necumulnted hy government, both of its own manufacture nnd captured from the rebels, is almost incredible.

THE profits of quicksilver mining may he inferred from the stntement, which appears to be rcliable, that the New Almaden mine is now prodncing fivo thousand flasks of quicksilver per month, worth forty dollars per flask, or two hundred thousand dollars per month, while the cost of production is set down at not far from fifty thousnnd dollars the five thousand flasks, leaving the magnificent profit of one hnndred nnd fifty thonsand dollars per month.

NOW WORKING.—From a private letter received in this city by the Del Norte, on Wednesday, we learn that work is heing actively pushed on the Paragon Compnny's claims, adjoining the Union Mattole Company, in Humholdt county. The Superintendent, Mr. T. G. Duff, expresses stronger faith than ever that an equal, if not better, showing of oil will be made within sixty days in the Paragon well than has yet been developed in the district.

CALIFORNIA ANNUAL FAIRS.—The Fifth Industrial Fair of the Mechanics' Institnte commenced on the 10th instnnt, and will probably continne ahout four weeks.

The State Fair at Sacramento will open on Monday, the 11th of Septemher, nnd continue through the week.

The Snn Jonquin District Fair, at Stockton, commences September 26th, and will continue five days.

The Fifth Annunl Fair of the Contra Costa Agricultural Society, commences on the 19th of Septemher, and continnes four days.

The Northern District Agricultural Society meets nt Marysville, August 28th, and continues five days.

THE French Academy of scienccs is [this year to designate, in accordance with the decree of the 22d of Novemher, 1860, the work of discovery of the greatest importance meriting the hiennial prize of 20,000 francs, founded by the Emperor.

BURSTING OF A RETORT.—On Tuesdny of last week, says the Nevnda *Transcript*, while Jos Cook was retorting ahout two thousand dollnrs worth of amalgam in n hlacksmith shop, the pipe hecame choked, the retort hnrsted, and the amalgam flew ahout the shop. Mr. Cook was slightly injured. The amalgam was a clean-up from ten days' washing in the Gold Bluff Company's ground on Mnzanita Hill, just below San Juan.

DIVIDENDS.—The Petaluma Mill and Mining Company, nnd the Imperial Silver Mining Company, each declared, on the 5th inst., a dividend—the former of five per cent., or five dollars per share, and the latter of ten dollars per share on the capital stock.

From the Daily Fair Press.

THE MECHANICS' INSTITUTE OF SAN FRANCISCO.

Never, since first the Star of Empire westward took its way, has there been devised any plan of association which has accomplished so much for the advancement of civilization and material progress, as that which is now so generally employed to bring together for mutual aid, assistance and improvement, the mechanics and working people of our land. The "Mechanics' Institute" is now an organization which is to be found, under that or some similar name, in almost every important city throughout the Union. The sons of Vulcan, of Archimides, of Fulton, of Arkwright, of Faust, and of Raphael, have, in these latter days, done more honor to themselves and their respective heads, in the quiet walks of peace, than have ever the followers of the proudest emperors or titled lords in all the grandest wars which history can produce. The footprints in the history of civilization and progress, which have been made within the present century, by the genius and handiwork of our artificers in wood, iron and brass, will tell more in coming events than all the great marches and brilliant victories which have been made and won since man first raised his hand against his fellow-man. Who, since the close of the late terrible strife of luxurious ease against honest toil, which has so recently drenched our own land in blood, is so base as to look with scorn upon the laborer or the mechanic? "What do we know of the infinite Creator, than that he is an infinite mechanic?" When are men most god-like, except when most active, and creating rather than destroying? Let, then, the practical mechanic bear ever in mind that no more ennobling activity can be his, than assiduous, intelligent efforts to convert the inanimate elements of nature into servants for himself and his fellow-men. "Thus," to use the language of another, "he will become a more valuable workman, and rising in the scale of intelligence, he may set up a model of practice which may stimulate to farther and higher improvements. Following up the sleepless principle of his nature, he stamps upon his art the impress of his intellect, and takes his place as a benefactor of his race."

We have been led into these reflections by considering the origin and history of the institution under whose auspices we are now assembled in this spacious temple of Art and Industry—this magnificent casket, containing such a vast collection of the gems of human thought, so curiously wrought into these multidiuudinous forms of power, utility and beauty—forms of far more real value than all the diamonds and rubies and pearls ever produced by Orient and Occident combined.

The "Mechanics' Institute" of the city of San Francisco, was organized on the 29th day of March, 1855. The first annual report, made on the 5th day of March, 1855, showed—

Total receipts for the year	$1,106 86
The disbursements were	1,085 37
Leaving in the treasury	$21 49

The number of members then enrolled were 282, only 92 of whom had paid their quarterly dues. The Library contained only 487 volumes.

The second annual report, made February 4th, 1857, showed—

Total receipts for the year	$2,448 98
Disbursements for the year	2,121 50
Leaving a balance of	323 48

The Library had increased to 887 volumes. In May of that year, it was decided to give the first Exhibition of the Institute, the opening of which was set for the 7th of September. After vain efforts to find a suitable structure in which to hold the Exhibition, it was decided to erect a temporary one for the purpose. The free use of a lot was generously tendered by Mr. James Lick—the same on which the Lick House now stands.

The proceeds of that exhibition are given as follows:

Total receipts from all sources	$22,347 63
Total expenses	19,469 20
Leaving a net balance of	$ 2,878 43

The building in that case, as in the present, was allowed to stand until another year. The affairs of the Institute, at that time, were in a very favorable condition.

The second exhibition was opened in the same building September 1st, 1858, and continued fifteen days.

The receipts of the Exhibition were	$15,511 50
Expenses	13,569 43
Net balance	$ 1,972 07

The list of membership at this time had increased to 452. From this time the records of the Institute present nothing of special interest, until the summer of 1860, when a proposition was made and carried to give a third Exhibition, for which a second structure was finally erected on the same ground as the first.

The cost of this building was $8,450. The Exhibition was opened September 3d, 1860, and, notwithstanding the hopes of success which attended the opening, and the creditable display of skill and industry, the Exhibition nevertheless resulted in a financial failure—the receipts falling some $3,000 short of expenses. From this time to the winter of 1863 may be looked upon as the dark days of the Institute. About that time, a large number of our leading and influential citizens, having determined that such a laudable institution should not be suffered to decline, took hold of its affairs with an earnestness with which we are all familiar, and the result of their labors was the erection of the noble edifice which still stands.

The fourth Exhibition of the Institute was opened on Saturday evening, September 3d, 1864. By the report of the executive committee, it appears that the cost of the present structure was $21,986.46.

Total receipts from Exhibition	$42,579 55
Total expenses	38,737 64
Leaving a net balance in cash	2,841 91

The total number of double season tickets sold for the Exhibition was 2,491; single season tickets, 592; boys' season tickets, 78; single admission tickets, 45,134. Total amount of money received on account of tickets, $36,716. When the amount of rent received for the Pavilion during the past season is taken into account, and the use of the building for the present Exhibition, and the amount which must be realized from its final sale, after the close thereof, all added to the cash profit of $2,841.91, it will be apparent that the Exhibition of 1864 was a most splendid success, alike gratifying to the members of the Institute, and to our citizens generally. Quite a full history of the Institute, from its organization, was given in the Daily Fair Press of 1864, and also in the Mining and Scientific Press of September 10th of the same year.

The last annual election of the Institute, which took place on the 7th of March, 1865, resulted in the election of the following officers for the current year: Charles M. Plum, President; Josiah Moulton, Vice President; P. B. Dexter, Recording Secretary; C. S. Higgins, Corresponding Secretary; Edward Nunan, Treasurer; and A. A. Snyder, H. K. Cummings, W. W. Hanscom, James R Deane, David Dwyer, D. A. Macdonald, and J. W. Reay, Directors.

The entire board of officers acts as an Executive Committee for making the necessary arrangements to inaugurate and carry forward to its completion the Fifth Exhibition of the Institute, which is now in successful progress. Mr. Gardiner Elliott has been appointed Special Superintendent of the Exhibition.

The first installment of books ordered for the Library last winter, has recently arrived, and the second installment is expected on the next steamer, which will add something over 500 volumes to the Library. The Librarian has been directed to forward another order for 2,000 volumes, which will probably go forward on the next steamer.

The Profit of Petroleum.—The expense attending the production of petroleum is so trifling that the nation profits by it more than from any mining or railway operations. The income of $75,000,000 will not cost probably over $2.000,000 in expenses. Gold, silver and coal mining costs about sixty to seventy per cent. for working purposes. The petroleum product of the United States promises to rival in amount the whole cotton crop of the South.

OPENING OF THE FIFTH INDUSTRIAL EXHIBITION OF THE SAN FRANCISCO MECHANICS' INSTITUTE.

Notwithstanding the backwardness manifested by exhibitors in introducing their goods and machinery into the pavilion, the managers of the Institute have done as they expressly advertised they would do—opened promptly upon the day and hour fixed upon. The delay upon the part of exhibitors has been as annoying to the managers as to the public; as it was desirous on the part of all that the exhibition should be as full and complete as possible at the opening. Had the managers yielded to the wishes of many, as they did a year ago, and postponed the time of opening, it would have been doing injustice to those who were prompt, and a giving way to a mischievous habit of procrastination, which is quite too prevalent in every community. The public, though disappointed in finding the Exhibition so incomplete at the opening, will doubtless fully approve of the promptness of the Executive Committee, and find the amplest satisfaction in the really fine display which will be made when everything is fully complete.

THE OPENING ADDRESS.

A large audience assembled at Platt's Hall on Wednesday evening last, to listen to the opening address, from the Hon. Frank M. Pixley. This address will be found entire in our columns to-day. It is quite lengthy, but not more so than demanded by the subject and the occasion. It is eminently practical in character, and like all the efforts of Mr. Pixley, is one which comes fully up to public expectation.

THE OPENING OF THE PAVILION

Took place on Thursday evening, and was preceded by a very fine display of fire-works, after which a large crowd soon collected under the rotunda, and in front the statue of Lincoln, which, after a brief address from Judge E. D. Sawyer, was for the first time uncovered to the public gaze. This statue, somewhat larger than life, stands upon a pedestal springing from the center of the fountain, and raised some ten feet above the level of the floor. The attendance was quite large, and from the beginning thus made, the managers feel very sanguine of a successful and useful Exhibition. The crowded state of our columns to-day prevents any extended notice, either general or in particular, of the articles on exhibition. We shall endeavor to do justice to all as the Exhibition progresses.

THE UNION MATTOLE OIL WELL.

We have taken pains to thoroughly inform ourselves with regard to the recent operations and actual *status* of this well, at last accounts from Humboldt. The following facts can be relied on: On the 31st of July commenced to clear out the well of saud, etc., which done, it was sunk five feet deeper, making 130 feet in all, and tubed to within seventeen feet of the bottom. By some mistake in making up the order for tubing in this city, it was found on arrival there that it was twenty-two feet short of the order, and lacked seventeen feet of reaching the bottom of the shaft. The pump was then put in, but soon got out of order. On taking the pump out to examine, the valves were found to have been made of gutta percha, which had become partially dissolved by the action of the oil—a result which might have been expected. Brass valves were substituted, the pump again started, and the well soon exhausted of oil; immediately after which there came a rush upwards of oil and gas, forcing up the pump valves, and throwing the oil several feet above the top of the well! This continued for a few minutes only, when it subsided, leaving the well full of oil. The flow was estimated at the rate of thirty barrels of oil per hour for the time it lasted. The well was again pumped out the next day (August 4th), with a repetition of the same rush. This was repeated on the 5th and 6th instants, when it was found that the flow of oil carried so much sand that the pump would not work, and operations were suspended until more tubing could be received, which will go up on the next trip of the Del Norte. In the meantime some twenty-five or thirty barrels of oil will arrive in this city by a sailing vessel. The question of a flowing well within 200 feet is now considered a matter almost beyond a doubt.

Letters from Mr. Duff, superintendent of the Paragon company, adjoining the Union Mattole, report the arrival on the ground, on the 3d of August, of all the tools, etc. The house and blacksmith shop was up, and the shaft was being put down, preparatory to the commencement of boring operations. The drill will be at work on or before the 15th instant. The success which has attended the Union, is looked upon as a guarantee for that of the Paragon.

San Francisco Stock and Exchange Board.

San Francisco, August 5, 1665.

	Bid.	Asked.
United States 7 3-10ths	$ 74½	$ 74¾
Gov. Legal Tender Notes	74½	74¾
State Bonds, 7 ₱ cent	60	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	..	..
San Francisco Bonds, 1856, 6 ₱ cent	03	70
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	50	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	..
Butte County Bonds, 10 ₱ cent	..	..
California Navigation Co	77½	78
State Telegraph Stock	29	32
San Francisco Gas Co	90	92
Sacramento Gas Co	86	..
Spring Valley Water Co	50	50¼
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	..	..
Central Railroad Co	..	..
North Beach and Mission	88	..
MINING STOCKS.		
Ophir	$ 320	$ 425
Gould & Curry	1450	1475
Empire M. & M. Co	450	460
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	1210	1220
Chollar	500	505
Potosi	440	445
Hale & Norcross	550	555
White & Murphy	....	....
Sierra Nevada	20	21
Daney	....	....
Burning Moscow	25	26
Lady Bryan	7	7¼
Sacramento & Meredith	....	....
Burnside	....	5
Iowa	....	....
El Dorado	....	....
North American	32	33
Baltimore American	15	20
Yellow Jacket	1370	1380
Overman	235	240
Cedar Hill Tunnel	....	....
Wide West	6½	7
Crown Point	1050	1060
Antelope	....	....
Emeralda	....	10
Etna	....	....
Real del Monte	7	14
Silver Hill	....	....
Utah	....	....
Justis	15	25
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co	....	35
Melones and Stanislaus	....	....
Sheba	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H	163	....
Luckeye	....	....
Dick Sides	....	....
Imperial	225	227
Alpha	1400	1450
Bajazett	....	....

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 00 @ 7 00
Do Superfine	5 50 @ 6 00
Corn Meal, ₱ 100 lb	3 00 @ 4 00
Wheat, ₱ 100 lb	1 60 @ 1 75
Oats, choice, ₱ 100 lb	1 75 @ 1 95
Barley, ₱ 00 lb	1 00 @ 1 05
Beans, ₱ lb	@ 4 00
Potatoes	85 @ 1 00
Hay, ₱ ton	11 00 @15 00
Live Oak Wood, ₱ cord	8 00 @10 00
Beef, on foot, ₱ lb	6 @ 10
Beef, extra, dressed, ₱ lb	16@ 22½
Sheep, on foot	1 00@ 2 00
Hogs, on foot, ₱ lb	6 @ 12
Hogs, dressed, ₱ lb	12 @ 15
Groceries, Etc.	
Sugar, crushed, ₱ lb	— @ 16
Do China	12½@ 13
Coffee, Costa Rica, ₱ lb	22 @ 23
Do Rio	22 @ 23
Tea, Japan, ₱ lb	85 @ 95
Do Green	70 @ 90
Hawaiian Rice, ₱ lb	@ 10
China do	10 @ 12
Coal Oil, ₱ gal	1 15 @1 25
Candles, ₱ lb	10 @ —
Rauch Butter, ₱ lb	45 @ 50
Isthmus do	30 @ 32
Cheese, California, ₱ lb	20 @ 25
Eggs, ₱ doz	— @ 50
Lard, ₱ lb	23 @ 25
Ham and Bacon, ₱ lb	23 @ 25
Shoulders	16 @ 18

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	50@ 60
do pickled ₱ lb	40@ 50
do Oregon	30@ 35
do New York, ₱ lb	30@ 37½
Cheese, ₱ lb	20@ 25
Honey, ₱ lb	40@ 50
Eggs, ₱ doz	50@ 55
Lard, ₱ lb	25@
Hams and Bacon, ₱ lb	20@ 25
Cranberries, ₱ gal	75@
Potatoes, sweet, ₱ lb	6@ 8
do Irish, ₱ lb	2@ 4
Tomatoes, ₱ lb	5@ —
Onions, ₱ lb	6@ 6
Apples, No. 1, ₱ lb	3@ 6
Pears, table ₱ lb	8@ —
Plums, dried, ₱ lb	10@ 15
Peaches, dried, ₱ lb	10@ 15
Grapes, Foreign, ₱ lb	20@ 50
Oranges, ₱ 100	2 50@ 3 00
Lemons, ₱ 100	5 00@ 6 00
Chickens, apiece	1 00@ 1 25

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and all other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Alpha, Gold Hill	$30		Aug 26—Sept 27
Adriatic, Storey co.,	$1.50		Aug 3—Aug 16
Baltimore, Alpine co			Annual Meeting Sept 16*
Bolinas, Petroleum, Marin co.,	25c		Aug 5—Aug 19
Bella Vista, Lower Cal,	25c		July 29—Aug 12*
Bacon M. & M. Co.,	$10		Payable May 10
Burning Moscow, Storey co.,	$10		Aug 16—Aug 29
Belcher, Baldwin & Abernethy			Dividend of $17, June 3
Benicia Cement Co.,	$5		Aug 8—Aug 23
Blue Ledge, El Dorado co.,	$1 50		Aug 16—Aug 30
Baltimore American, Storey co., Nev.,	$5	Sept 5	Sept 19
Camargo (Eclipse), Lander co.	$5		Aug 19—Sept 6*
Chloride Ledge, Calaveras co.,	$1		Aug 19—Sept 2*
Cherokee, Echo District,	75c		July 29—Aug 2*
Confidence,			Dividend, $100 per foot May 1
Chollar, Storey co., Nev.,	$12½		July 31—Aug 14
Chipiopena, Sonora, Mex.,	$5		Aug 26—Sept 8
Cosala, Sinaloa, Mex.,	$1.50		Aug 23—Sept 9
Cole, Storey co., Nev.,	$1		Sept 4—Sept 19
Cosbortita, Sinaloa, Mex.,	$5		Sept 1—Sept 12
Consolacion, Sinaloa, Mex.,	$2		Aug 30—Sept 11
Central, Storey co., Nevada,	$5		Sept 6—Sept 26
Cordilleras, Chihuahua, Mex.,	$2		Sept 10—Sept 23
Dardanelles, Del Norte co.,	20c		Aug 5—Aug 10
Daney, Lyon co., Nev.,	$1.25		Aug 11—Aug 28
Dacota, Oncota, Itasca, Mlwiwakan			Joint Meeting Aug 12
El Dorado, Alpine co			Annual Meeting Sept 16*
Eagle Quartz, Amador co	75c		Sept 2—Sept 22*
Emilia, Mex.,	50c		July 29—Aug 12*
El Dorado, Alpine co.,	$1		July 22—Aug 14*
El Tesora, La Paz,	$1		Aug 14—Aug 25
Empire M. & M. Co			Dividend Payable Aug 10
Governor Nyo, Alpine co			Annual Meeting Sept 7*
Geo. Washington			Annual Meeting Sept 18*
Great Western, Aurora,	10c		Aug 26—Sept 9*
Globe, Alpine co			Annual Meeting Aug 21*
Golden Rule, Dividend			Payable July 20*
Good Hope, Alpine co.,	50c		Aug 12—Aug 26*
Geo. Washington, Alpine co.,	$1		Aug 12—Aug 26*
Gould & Curry,			Dividend, $40 Aug 5
Great Republic, Contra Costa co.,	12½c		July 29—Aug 16
Guadaloupe, Chihuahua, Mex.,	$10		Levied June 26
Great Consolidated, Boise River, Idaho,	50c		Aug 11—Aug 22
Gov. Nye, Devil's Gate, Nevada	$1		Sept 12—Sept 25
Hanscom Copper, Del Norte co.,	15c		Aug 26—Sept 12*
Honest Miner, Lander co.,	50c		Aug 26—Sept 12*
Halleck, Alpine co.,	60c		Aug 26—Sept 9*
Hale & Norcross, Storey co.,	$25		Aug 7—Aug 21
Illinois, Alpine co			Annual Meeting Sept 19*
Imperatrice Eugenie, Calaveras co.,	25c		Sept 2—Sept 19*
Imperial			Dividend Payable Aug 10
Jewett, Gold Hill, Nev.	$1		Aug 19—Sept 2*
Jura, American Flag dist., Nevada,	$1		Aug 28—Sept 9
Jeffrey, Oil,	$25		Levied July 31
Kelsey, El Dorado co			Special Meeting Aug 14
Kentucky, Calaveras co			Annual Meeting Aug 23
Lord Byron, Devil's Gate,	50c		Aug 26—Sept 11*
La Libertad, Lower Cal.,	50c		Aug 5—Aug 14*
La Victoire, Mariposa co.,	$3		Aug 12—Aug 28*
Lotus, Calaveras co.,	15 cts		Aug 15—Sept 2
La Victoire, Mariposa co			General Meeting Aug 19
La Blanca, Sonora, Mex.,	3.50		Aug 23—Sept 9
Las Cruzeltas, Sonora, Mex			Special Meeting Aug 12
Lady Bell, Del Norte co.,	10c		Sept 4—Sept 15
Mammoth, Alpine co			Annual Meeting Sept 9*
Mosquito Quartz, Calaveras co.,	$5		Aug 26—Sept 15*
Minerva Cons., Gold Hill,	$25		July 31—Aug 15
Maggie, Lander co., Nev.,	$2		Aug 8—Aug 19
Napa, Alpine co			Annual Meeting Sept 12*
Nuestra Sen. de Guadaloupe, Durango,	50c		July 29—Aug 16
Napoleon, Calaveras co.,	$5		Aug 5—Aug 18
Napa, Alpine co.,	60c		Aug 5—Aug 14*
New Hope, Lander co., Nev.	$1		Aug 14—Sept 2
North Star, Lander co., Nev.	$11		Aug 10—Aug 25
Nonpareil, Tuolumne co.,	$2		Aug 14—Aug 31
Nonpareil, Tuolumne co			Annual Meeting Aug 14
Old Colony, Reese River,	$5		Aug 26—Sept 11*
Ontario, Lander co.,	$1		Aug 22—Sept 4
Ontario, Lander co			Annual Meeting Sept 4
Overman, Storey co.,	$50		Aug 2—Aug 18
Paragon, Petroleum			Annual Meeting Sept 2*
Porter, Virginia, Nev.	$5		Aug 19—Sept 2*
Potosi, Storey co., Nev.,	$25		July 31—Aug 14
Patrocina & Dolores, Chihuahua, Mex.,	1.50		Sept 1—Sept 15
Petaluma M. & M. Co., Dividend of 5 per cent			Aug 9
Paragon, Petroleum, Humboldt co.,	30c		Aug 5—Aug 19*
Peninsula, San Antonio, L. Cal.,	$10		Aug 18—Aug 31
Patrocina & Dolores			Annual Meeting Aug 28
Prima Dona, Devil's Gate, Nev			Annual Meeting Sept 6
Penusylvania, Alpine co.,	$2		Sept 9—Sept 28
Rose Linda, Alpine co.,	$3		Aug 5—Aug 16
Rochester Cons, San Bernardino co.,	$1.25		Aug 16—Aug 28
Revenue, Lander co., Nev.,	$1		Aug 26—Sept 13
Ranchería, San Antonio, L. C.	40c		Sept 2—Sept 16
Refugio, Chihuahua, Mex.,	$2.50		Sept 9—Sept 23
Sierra Nevada, Alpine co			Annual Meeting Sept 12*
Silver Prize, Alpine co			Annual Meeting Sept 20*
Silver Creek, Alpine co			Annual Meeting Sept 19*
St. Clair, Smoky Valley,	50c		Sept 2—Sept 16*
Sheba, Humboldt co., Nev.,	$25		Aug 19—Sept 2*
Smoky Valley, Smoky Valley dist.	$1.50		Aug 12—Aug 30*
Southern Light, R. R.	50c		Aug 19—Sept 6*
Simpson M & M Co., Alpine co.,	60c		Aug 19—Sept 2*
Scott M & M Co., Humboldt co., Nev.,	80c		Sept 9—Sept 25*
Sierra Novada, Alpine co.,	75c		Aug 12—Aug 26*
Savage,			Dividend, of $75 May 5
Santiago			Dividend May 17
San Rafael, Lower Cal.,	60c		July 29—Aug 15*
Sacramento & Meredith, Storey co.,	50c		Aug 4—Aug 19
Shoshone, Lander co., Nev.,	$1		Aug 7—Aug 21
St. Paul, Lander co	50c		Aug 5—Aug 22*
Santa Cruz, San Antonio, L. C.	$2		Aug 8—Aug 21
San Francisco, Del Norte co.,	70cts		Sept 1—Sept 13
Sweet Vengeance, Yuba co.,	$1		Aug 19—Sept 4
Siempre Viva, Sinaloa, Mex.,	$2.50		Aug 29—Sept 9
San Marcial, Sinaloa, Mex			Annual Meeting Aug 15
Tip Top, Alpine co			Annual Meeting Sept 18*
Table Mountain, Calaveras co.,	50c		July 29—Aug 14*
Triunfo, San Antonio,	$3		Aug 7—Aug 19
Tellurium, Amador co.,	$1		Aug 3—Aug 16
Tecoripa, Sonora, Mex.,	$3.50		Aug 10—Aug 23
United States, Lander co			Meeting Aug 21*
Union No. 2, Calaveras co	$1		Sept 9—Sept 25*
Uncle Sam, Storey co.,	$50		Aug 2—Aug 18
Union, Sierra co			Annual Meeting Aug 14
Ventana			June 3—Caution
Wide West, Alpine co			Annual Meeting Sept 7*
Whitton, Alpine co			Annual Meeting Sept 5*
Wisconsin, Alpine co			Annual Meeting Sept 18*
Wisconsin, Alpine co	1		Aug 19—Sept 2*
Whitlach Yankee Blade, Lander co.,	$10		Aug 26—Sept 12*
Whitlach, Lander co.,	$7.50		Aug 7—Aug 22
Yosemite, Ore Fino dist.,	$1.25		Aug 5—Aug 19*
Yellow Jacket,			Dividend of $100 May
Yankee Blade, Lander co., Nev.	$1		Aug 12—Aug 29

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Alpha	July 25	30 00
American Flat Nevada	July 28	2 00
Burning Moscow	July 11	20 00
Branch Mint	July 12	1 50
Baltimore American	August 4	5 00
Central Hawkeye	July 10	3 00
Chrystal Peak Consol	July 30	2 00
Colc	August 6	1 00
Central	August 6	60 00
Globe	May 16	1 00
German	July 22	50
Imperial Consolidated	July 24	50
Jewett	July 22	1 00
Jura	July 23	1 00
Keystone	July 11	1 25
Lincoln	August 5	1 00
North Comstock	August 2	25
Nevada	July 25	10 00
Sides	July 18	10 00
Siegel	July 8	50
Union	July 28	25
Virginia & Truckee R R Co	July 16	200 00

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale.
Alamance	Aug 26	Virginia
Bullion	Aug 7	Virginia
Cresus	Aug 23	Gold Hill
Chollar	Aug 14	San Francisco
Globe	Aug 15	Virginia
Golden Swan	Aug 7	Gold Hill
Imperial Consolidated	Aug 22	Gold Hill
Independent	Sept 6	Virginia
Jewett & Shepard	Aug 3	Gold Hill
Kossuth	Aug 5	Virginia
Keystone	Aug 21	Gold Hill
Lincoln	Sept 6	Virginia
Mount Blanc	Aug 10	Virginia
Mary Ann	Aug 12	Gold Hill
Napoleon Consolidated	Aug 7	Virginia
Opal	Aug 2	Virginia
Overman	Aug 18	Virginia
Potosi	Aug 14	San Francisco
St. John	Aug 17	Virginia
Siegel	Aug 17	Virginia
Sand Springs Salt Co	Aug 21	Virginia
Santa Fe	August 19	Virginia

San Francisco Metal Market.

PRICES FOR INVOICES.

(Jobbing prices [rule from ten to fifteen per cent. higher than the following quotations.)

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1¼c ₱ lb; Sheet, polished, 3c ₱ lb, common, 1¾@ 1¾c ₱ lb; Plate 1¾c ₱ lb; Pipe, 1¾c ₱ lb; Galvanized 2¼c ₱ lb.

Scotch and English Pig ₱ ton	37½@40
American Pig ₱ ton	36 @39
Refined Bar, bad assortment, ₱ lb	3 @—
Refined Bar, good assortment, ₱ lb	3¾@—
Boiler No. 1 to 4	4 @ 4½
Plate No. 5 to 9	4½@—
Sheet No. 10 to 15	4 @—
Sheet No. 14 to 20	5 @—
Sheet No. 24 to 27	5½@—

COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb

Sheathing ₱ lb	30 @32
Sheathing, Old	25 @35
Sheathing, Yell	32 @—
Sheathing, Old Yell	12 @—
Bolts	— @—
Composition Nails	30 @32

TIN PLATES.—Duty: 2½c ₱ lb.

Plates, Charcoal, IX ₱ box	10 @11
Plates, I C Charcoal	9 @10½
Roofing Plates	8 @ 9½
Banca Tin Slabs, ₱ lb	41 @42½
STEEL.—English Cast Steel, ₱ lb	12½@16
QUICKSILVER.—Per lb	— @65
For export	55 @—
ZINC.—Sheets ₱ lb	9½@10
LEAD.—Pig ₱ lb	6½@—
Sheet	10 @—
Pipe	10 @—
Bar	9½@10

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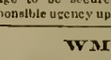
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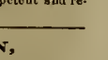
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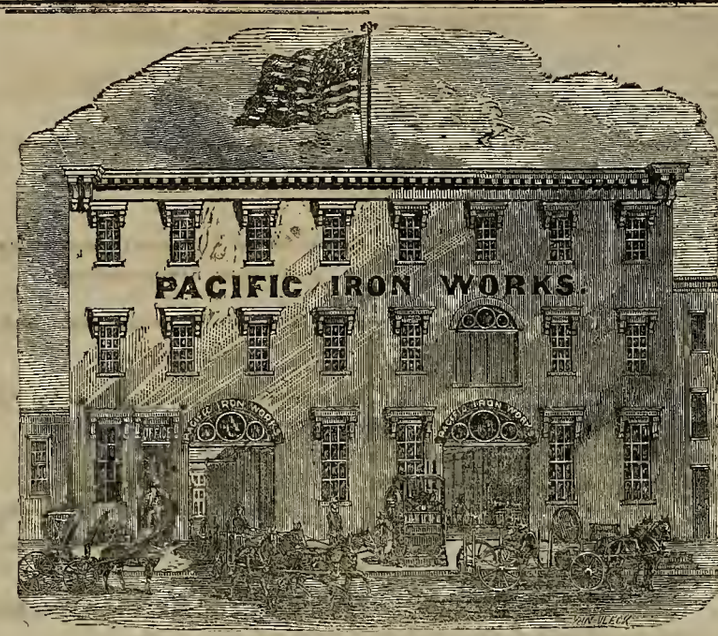

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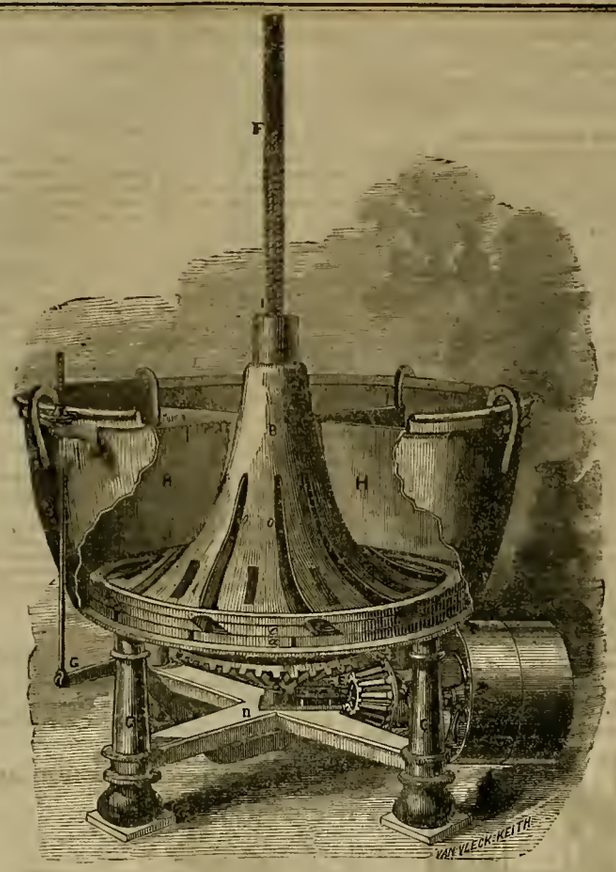

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The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity, "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

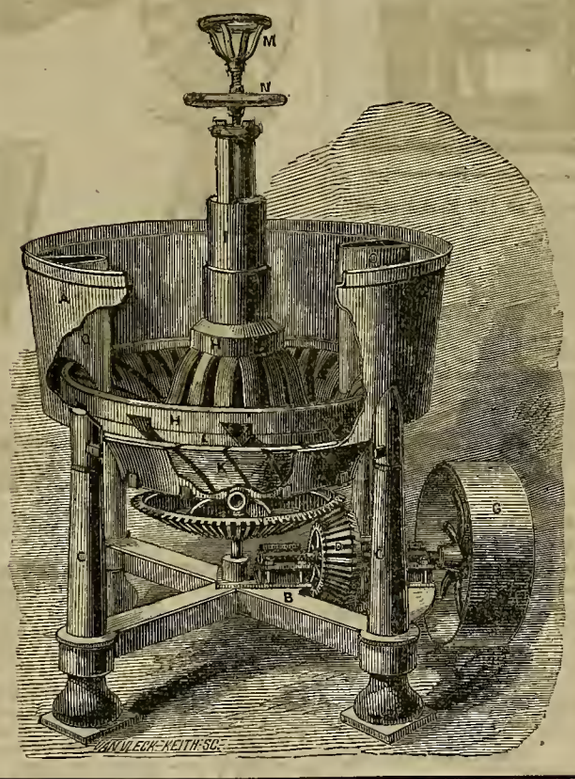
Union Iron Works and Golden State Iron Works,

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.



THE

WHEELER & RANDALL

Grinder and Amalgamator.

In the engraving herewith exhibited, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Plates.

The attention of the Public is respectfully called to these facts:

1st. That the Mechanical work accomplished by differently formed grinding plates, having the same diameter, weight, hardness, and revolving at the same velocity, is as follows, to wit:

The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory-formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

2d. That as a whole, the Wheeler & Randall Grinder and Amalgamator is one of the most simple, compact, substantial, convenient and efficient pans in use.

☞ Patent applied for.

MANUFACTURED AT

GOLDEN STATE IRON WORKS..... .....San Francisco.
UNION IRON WORKS..... ..... "
MINERS' FOUNDRY..... ..... "
SAN FRANCISCO FOUNDRY... ..... "
PRESCOTT & SCHEIDEL.....Marysville.
OREGON IRON WORKS.....Portland, Oregon.

WHEELER & RANDALL, Inventors.

SAN FRANCISCO, JUNE 13, 1865.

SAN FRANCISCO

CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

— OF —

MANILA CORDAGE,

FOR MINING PURPOSES.

— ALSO —

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

Hoisting Ropes for Deep Shafts,

— ALSO —

Lines for Ferry Boats,

Manufactured to Order.

Office at TUBBS & CO.'S,

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14v10

QUICKSILVER

FOR SALE BY

S. F. BUTTERWORTH,

Northwest cor. Battery and California sts.

v9-19 SAN FRANCISCO.

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSIT ON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery, or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street, above First (opposite the Oriental Hotel), San Francisco. 23v10

WE ARE NOW OFFERING OUR IMMENSE STOCK

— OF —

FINE CUSTOM MADE CLOTHING

— AND —

Gents' Furnishing Goods

AT PRICES THAT DEFY COMPETITION.

Our Stock of Clothing Consists of

ALL THE LATEST STYLES

BOTH OF MATERIAL AND FINISH.

A Large Assortment of

Trunks, Valises, Carpet Bags, Blankets, Etc

AT EXTREMELY LOW PRICES.

J. R. MEAD & CO.,

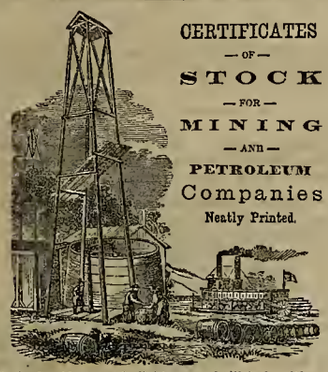
8v10 Cor. of Washington and Sansome streets.

Let it be Known.—When any of our readers respond (by letters of inquiry or by the purchase of articles) to advertisements found in our columns, they will confer a favor, not only upon us, but upon the advertiser, by mentioning the fact of having seen the notice in our paper.

Mining and Scientific Press

JOB PRINTING OFFICE,

No. 505 Clay street, corner of Sansome.



CERTIFICATES
—OF—
STOCK
—FOR—
MINING
—AND—
PETROLEUM
Companies
Neatly Printed.

Stock Certificates of all kinds embellished with wood cuts and electrotype engravings. We devote special attention to the execution of all kinds of work required by Mining Companies, Machinists and Manufacturers.

TEETH

☞ Extracting Without Pain. ☜

Drs. Whitcomb & Dyer,

DENTISTS,

[Successors to W. H. Irwin.]

No. 205 Third Street, near Howard,

v8 SAN FRANCISCO.

A German Mining Engineer,

LATELY FROM THE EAST,

Desires a Place in a Mine, Assay Office, or Chemical Laboratory.

Address O. H., office of this paper. 4v11-1m

Palmer's Patent

ARTIFICIAL LEG,

Manufactured in Philadelphia, Penn.

JARVIS JEWETT, AGENT.

629 Washington Street, San Franc l. 10v8-1m

DENIS WHELAN,

Fashionable Boot Maker.

REPAIRING NEATLY DONE, AT SHORT NOTICE.

No. 17 Fourth Street,

Near Market street, San Francisco.

15v10-1m*

Wanted.

GOLD QUARTZ

Suitable For Cutting Jewelry,

By FRONTIER & DEVIERCY,

19v10-2m 437 Pine street, San Francisco.

Machinery.

ATTENTION, MINERS!

LINSCOTT'S PATENT

CHAMBER DRILL.

Great Improving in Blasting.

W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.

D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ¼ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

HANSCOM'S CRUSHERS,

Made in sizes suitable for Breaking Quartz for Batteries; Rock for macadamizing or concrete; Copper Ore for sacking, sampling, or concentrating; also, for crushing Quartz for Arastras and Grinders. The small sizes make a most efficient Crusher for Prospectors, and are arranged to be run by Hand, Horse, Water or Steam Power. For further information address W. W. HANSCOM.

1 Golden State Iron Works, San Francisco.

Hepburn & Peterson's

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th.

[Illustrated in the Mining and Scientific Press, April 9th, 864.] HEPBURN & PETERSON.

nov8 3m*

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Crocodile Quartz Crusher; his Pulverizer; and his Improved Perforated Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

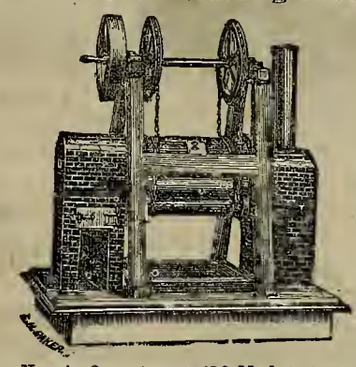
Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. B. FAUCHERY, Engineer,

24v9

WM. BRUCKNER'S

Furnace for Roasting Ores.



Now in Operation at 416 Market street.

This Furnace, which is portable, and can be carried on mulcback, undertakes to roast without employing any labor whatever for the operation of stirring, which is accomplished by machinery that may be driven by steam or any other motor. It consists of an iron cylinder, which, being suspended by chains, in rotating mixes and stirs the ore, by an internal apparatus, quicker and more perfectly than can be done in any other furnace hitherto known in metallurgy. It can be applied to any kind of ore, and the rapidity and perfectedness of its operation, the great saving in fuel, and the entire saving of the labor usually required for stirring the ore, together with the small cost of constructing it, renders this furnace a most

Economical and Practical Invention.

The Furnace may be had of two sizes—one being nine feet in length and holding fourteen hundred pounds, and the other six feet in length, and holding eight hundred pounds. One horse power is required to drive the machinery of the larger sized furnace, and three-fourths of a horse-power for the smaller size. Parties wishing to erect such furnaces will please communicate to

W. BRUCKNER,

5v10 No. 416 Market street, San Francisco.

BLAKE'S

QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA, WASHOE, ENGLAND, FRANCE,

—AND—

THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned.

Address,

BLAKE & TYLER,

Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.

4v10

VARNEY'S

PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setlers made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setlers for themselves, at the

PACIFIC FOUNDRY,

1v10 San Francisco.

THE HAMMER QUARTZ MILL.

[PATENT APPLIED FOR.]

This Machine is now complete and ready for sale. In constructing it, our aim has been to produce a light, cheap and economical Crusher—one adapted to mining on a small as well as on a large scale.

The elementary principle on which it operates is that of the stamp—the only one really reliable and economical.

But the stamp has many serious disadvantages, among which are its great weight and small velocity; the great power required to run it; difficulty in feeding properly; imperfect discharge, and the necessity of crushing wet, or the annoyance from dust in crushing dry.

All these difficulties are obviated in our machine, and the percussive blow of the stamp retained, with the further advantage of its being a drawing or grinding one.

We give to our hammers such absolute or relative weight and velocity as we choose—just such as to effect their purpose and no more—thus securing the qualities of the natural hammer blow.

The feed is self-adjusting and uniform, and as fast as the ore reaches the required degree of fineness (which depends upon the fineness of the screen or sieve used), it is instantly discharged, so that there is no packing of the ore under the hammers.

The mill crushes dry, with no more dust than that incident to feeding, which is trifling.

As the only support of the mortar is a single post set into the ground, the machine can be put in place at slight expense.

The size now being built weighs about 1,800 pounds complete; the heaviest piece not weighing over 275 pounds. It is driven by half a horse-power, and crushes from three to ten tons per day of twenty-four hours per day, according to the character of the rock and the fineness to which it is reduced.

PRICE,.....$800.

Larger ones will be furnished if desired.

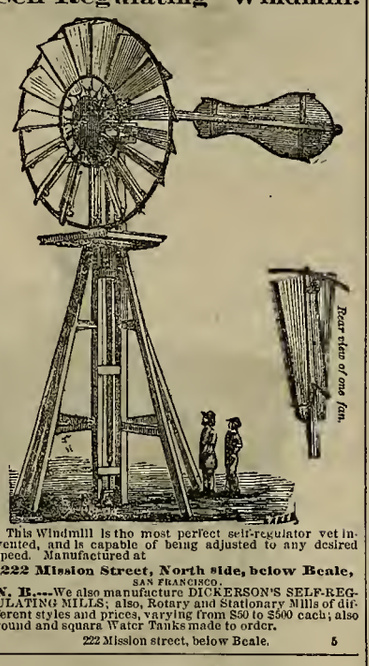
We invite an inspection of the Mill now in operation adjoining the Foundry of DEVOE, DINSMORE & CO., on Fremont street, between Market and Mission, San Francisco.

Office, No. 11 Court Block, San Francisco, Cal.

21v10 **RIX & LOGAN.**

ATWOOD'S

Self-Regulating Windmill.



Rear view of one fan.

This Windmill is the most perfect self-regulator yet invented, and is capable of being adjusted to any desired speed. Manufactured at

222 Mission Street, North side, below Beale,

SAN FRANCISCO.

N. B.—We also manufacture DICKERSON'S SELF-REGULATING MILLS; also, Rotary and Stationary Mills of different styles and prices, varying from $50 to $500 each; also round and square Water Tanks made to order.

222 Mission street, below Beale. 5

HUNT'S

IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN

HORSE POWER

For Sawing Wood,

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,

No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

HUNT'S PATENT

Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

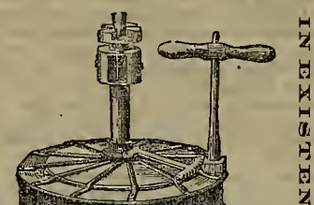
HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,

7v10 28 Second street, San Francisco.

Equal to the Best Overshot Wheel

POWER PLEDGED



IN EXISTENCE.

LEFFEL'S

AMERICAN DOUBLE TURBINE.

The DOUBLE TURBINES, so long expected, have arrived at last, and orders can now be filled. We have a large supply of the different sizes, from 20 inches to 30½. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

The above Wheel will be exhibited during the Fair of the Mechanics' Institute, where all may see it and hear its merits explained. This Wheel is especially adapted to mining purposes It is light, and can be easily packed into the mountains. Wheels weighing from 100 to 300 pounds will yield from 10 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to

LEFFEL & MYERS,

4v11-tf Care RICHARDS & MCCROKEN, San Francisco.

TO QUARTZ MINERS.

Hinkle's Centrifugal Pulverizer and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUGAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steen, Nos. 37 & 39 Fremont street, between Market and Mission streets.

This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine, made entirely of Iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

Mr. Hanson, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 60 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to

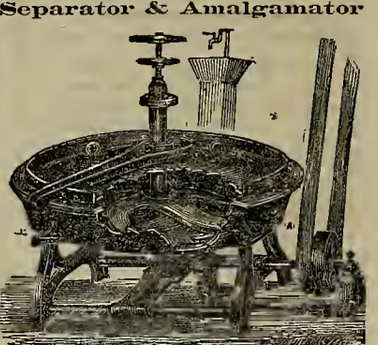
PHILIP HINKLE,

At the Novelty Iron Works, Nos. 37 & 39 Fremont street.

15-1m

BAUX & GUIOD'S

Separator & Amalgamator



Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

Lapidaries' refuse, Refiners' ashes, Jewelers' sweepings, purchased or worked for a percentage. Ores and tailings worked or assayed at reasonable rates.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Heugh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,

Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8

McCOMB'S

CUMULATIVE POWER PRESS

AND

ARROW TIE.

E. C McCOMB, Agent.

No. 1 Government House, cor. Sansome and Washington sts.

23v10-3m

NOTICE.

The undersigned having purchased the EXCLUSIVE RIGHT in and for the State of California, for the

Manufacture and Sale of

WINHAM'S

PATENT HOSE COUPLING,

Hereby caution all parties against the manufacture or purchase of the above Hose Couplings, except through us, as any infringement will be prosecuted to the full extent of the law.

[PRESCOTT & SCHEIDEL,

Marysville Foundry.

March 31st, 1865. 13v10-3m

New Mining Advertisements.

Continued Mining Advertisements will be found on other pages.

Baltimore Gold and Silver Mining Company, Silver Mountain District, Alpina county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 16th, 1865, at 10 A. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

El Dorado Gold and Silver Mining Company, Silver Mountain District, Alpina county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 16th, 1865, at 2 P. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

George Washington Gold and Silver Mining Company, Silver Mountain District, Alpina county, Cal.

NOTICE.—There are delinquent, upon the following described Stock, on account of Assessment levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allred, W C	21	15	$15 00
Allred, W O	22 23 25 26 27 10 ea	50	50
Allred, W C	not issued	44¼	44 75
Adams, J S	240	5	5
Beard, C M	not issued	1	1
Berry, H	not issued	5	5
Booker, W Lano	212	10	10
Botts, John	230	1	1
Baily, R	234	1	1
Biggs, G W	not issued	6	6
Christianson, Phil	166	5	5
Christianson, Phil	167	9	9
Christianson, Phil	168	10	10
Christianson, Phil	20	15	15
Cornwell, J F	40 41 42 10 ea	30	30
Cornwell, J F	43	9¼	9 50
Curtis, E B	230	10	10
Curtis, E B	not issued	1	1
Capell, B	201	5½	5 50
Conitor, Samuel	251	10	10
Christianson, O & B	not issued	2¼	2 33
Douk, David	not issued	1	1
De Graff, Wm	70 71 10 ea	20	20
Davidson, Dan'l	not issued	14	14
Dement, David	220	10	10
Dement, David	221 222 5 ea	10	10
Davidson, Wm	not issued	1	1
Egan, E D	not issued	2	2
Ellsworth, O F	not issued	1	1
Francis, J H	204	10	10
Francis, J H	157 207 257 5 ea	15	15
Foster, Howard	104	5	5
Gullickson, L	67	7¼	7 50
Griffith, W P	226	10	10
Griffith, W P	227 228 5 ea	10	10
Graham, T B	not issued	1	1
Grigsby, A F	215	6	6
Gilbert, S W	264	10	10
Gilbert, S W	205	5	5
Hastings, D L	not issued	23½	23 50
Hawkins, Mary	not issued	19¾	19 67
Hill, V R	not issued	14½	14 50
Hayward, C G	122	5	5
Hommet, Ed W	318	10	10
Harmon, Wm	289	5	5
Ingalls, Miles	262	4	4
Ingalls, Miles	263	5	5
Isbell, J C	307	10	10
Johnson, Armon	not issued	6	8
Johnson, Andrew	272	9½	9 50
Jones, Wm	223 285 10 ea	20	20
Jones, Wm	224 225 273 274 5 ea	20	20
Justice, J D	308	5	5
Knight, T	not issued	½	50
Klopsig, J C E	91	4	4
Kelchevel, S A	3 3	10	10
Larson, C	15	5	5
Lee, O N	not issued	9¾	9 67
Love, Alfred	not issued	13	13
Lewis, F R	not issued	1	1
Lindan, Arnold	102	5	5
Lachman, Louis	53	10	10
Marshall, J C	30 not issued 10 ea	20	20
Marshall, J C	31	6	6
Mead, James A	33	10	10
McCorkle, King	74	10	10
McLea, Donald	not issued	1	1
Morrison, James	144	5	5
McKlenberg, J	165	5	5
Mason, Chas	211	5	5
Miller, John	254	5	5
Marks, M	288	5	5
McGovern, P H	300 305 5 ea	10	10
McCuen, J A	304	10	10
Mudgett, John	121 301 5 ea	10	10
Pearson, J N	281 114 115 163 5 ea	20	20
Pearson, J N	128	10	10
Pearson, J N	120	15	15
Palache, E	97 215 5 ea	10	10
Palache, E	284	10	10
Stevens, Geo	63	15	15
Stevens, Geo	217	5	5
Squarza, V	107	5	5
Smith, C	not issued	24¾	24 25
Smith, John	163	13¾	13 67
Swinneston, D E	not issued	1	1
Senter, Riley	2 3	20	20
Trapp, A	153	4¼	4 25
Tyther, Richard	256	2	2
Vick, J	296	10	10
Wallace, P R	not issued	1	1
Whilton, C J	78	10	10
Wines, Chas B	120	5	5
Whitton, Green	120 127 5 ea	10	10
Winnie, Matt	not issued	9½	9 50
Winnie, J P	168	10	10
Winnie, J P	169	8	8
Winnie, J P	190	2	2
Wilmie, Mrs E J	186 187 5 ea	10	10
Whitby, Wm	286	6	6
Williamson, John	231		5
White, J E	235	5	5
Wakeies, C H	not issued	8	3
Walsh, Martin	290	5	5
Walsh, Martin	291	4½	4 50
Whitton, Wm H	339	40	40
Whitton, Wm H	332 333 334 5 ea	15	15
Whitton, Wm H	25 330 331-10 ea	30	30
Whitton, Wm H	78	12	12
Whitton, Wm H	not issued	15¾	15 33

And in accordance with law, and an order of the Board of Trustees, made on the 10th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction at the salesroom of Edwards, Olney & Co., No. 828 Montgomery street, San Francisco, on the 26th day of August, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquant assessment therson, togothor with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.

Office, 410 Montgomery street, San Francisco. Aug 12

Good Hope Gold and Silver Mining Company, Alpine District, Alpine County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Oscar McDowell	82	5	$2 50
E S Denison	339	5	2 50
M Weil	159	10	5 00
Geo Lown	1,2	10	5 00
Peter Boyle	124	10	5 00
John Boyle	147	15	7 50
John Boyle	203	20	10 00
Jas F Boyle	148	10	5 00
Charles Dudley	170	5	2 50
E Ganoung	171	5	2 50
M T Groenveld	108	5	2 50
S Kimmel	202	5	2 50
Mrs A L. Marsden	215	5	2 50
W Burright	209	10	5 00
J Nelson	259	5	2 50
J R Cook	204	10	5 00
L E Chevnller	277	5	2 50
C P Goff	280	10	5 00
C P Goff	287	5	2 50
W H French	280	20	10 00
W H French	291	5	2 50
C Mallierbe	296	3	1 50
W Prusser	308	5	2 50
H J Olts	330	5	2 50
Henry Weinrich	329	5	2 50
Chas W McFarlaad	335	5	2 50
J Q Smith	205	5	2 50

And in accordance with law and an order of the Board of Trustees, made on the 10th day of July, 1865, so many shares of the parcel of said Stock as may be necessary, will be sold at public auction at the Office of the Company, No. 520 Montgomery street, San Francisco, on the 26th day of August, 1865, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, togothor with costs of advertising and expenses of sale.

PRESTON MORRIS, Secretary.

Office, 526 Montgomery street, San Francisco. ng12

Governor Nye Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Thursday, September 7th, 1865, at 10 o'clock A. M. of said day.

au12 4w I. S. BROWN, Secretary.

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on September 17th (Sunday)—changed to Monday, September 18th, 1865, at 2 P. M. of said day.

au12 4w W. D. ROOT, Secretary.

Illinois Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 10th, 1865, at 10 A. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Mammoth Gold and Silver Mining Company, Silver Mountain District, Alpine county. Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 9th, 1865, at 2 P. M. of said day.

au12 4w J. WARREN CLARK, Secretary

Napa Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 12th, 1865, at 10 A. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Paragon Petroleum Company, Mattole District, Humboldt county, State of California.

Notice is hereby given, that the Annual Meeting of the stockholders of the Paragon Petroleum company will be held at the office of the company, San Francisco, northwest corner of Washington and Sansome streets, on Saturday, September 2d, 1865, at 3½ o'clock, for the election of Trustees to serve during the ensuing year, and for the transaction of any other business which may properly come before the meeting.

au12 D. S. CUTTER, Secretary.

Smoky Valley Gold and Silver Mining Company, Smoky Valley District, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 7, levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Joseph Rydberg,	106	2	$ 3 00
G H Mullen	111	10	15 00
G H Mullen	112	10	15 00
James D Sears	113	10	15 00
James O Sears	114	10	15 00
James D Sears	115	10	15 00
James O Sears	116	10	15 00
James D Sears	117	10	15 00
C A Waller	128	5	7 50
S S Phillips	161	10	15 00
S S Phillips	190	2	3 00
James Hawley	not issued	30	45 00

And in accordance with law, and an order of the Board of Trustees, made on the 10th day of July, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at Maurice Oore & Co.'s, No. 327 Montgomery street, San Francisco, on Wednesday, 30th day of August, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, togsthsr with costs of advertising and expenses of sale.

W. W. KNIGHT, Secretary.

Office, No. 38 Exchange Building, San Francisco. au12

Sierra Nevada Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 12th, 1865, at 2 P M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Silver Creek Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 19th, 1865, at 2 P. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Silver Prize Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Wednesday, September 20th, 1865, at 2 P. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Scott Mining and Exploring Company, Humboldt county, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of August, 1865, an assessment of eighty (80) cents per share was levied upon the capital stock of said company, payable immediately, in United States coin, to the Secretary, at the office of Irvine & Co., No. 224 Front street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 9th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

V. B. POST, Secretary.

Office, No. 224 Front street. au12

Sierra Nevada Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares	Amount.
Austin, H S	198	10	$5 50
Argell, John	not issued	5	3 75
Byam, H S	4	5	3 75
Bartlett, S A	19	5	3 75
Brown, Thomas	61	8	2 25
Brown, Thomas	62	12½	9 37
Barkly, C P	22	5	3 75
Bowen, Geo H	161	6	4 50
Bowen, Geo H	201	1	75
Coon, M R	104 97 98-10 ea	30	22 50
Cooper, Frank	2	5	3 75
Coon, H D	107	26¾	20 00
Chaney, Edmund	67 76 10 ea	20	15 50
Chaney, Edmund	77	3	2 25
Carlson, Thomas	62 64 65 and not issued-10 ea	40	30 00
Carlson, Thomas	66	11	8 25
Curran, B	139	5	3 75
Christie, John	162 163 164-6 ea	18	13 50
Christianson, O & B	not issued	62	46 50
Cox, George	not issued	10	6 50
Chamberlain, E J	not issued	10	7 50
Cent & Hay	not issued	25	18 75
Delaitre, J	193	6	6 00
Erickson, E H	86 87 & not iss'd-5ea	15	11 25
Erickson, E H	86	4½	3 37
Eckle, A W	85	7	5 25
Earland, Nicholas	not issued	10	7 50
Gullickson, Louis	140	10	7 50
Hawkius, H J	9 10 11 12 25 ea	100	75 00
Halverson, Ole	20 21 25 ea	50	37 50
Halverson, Ole	not issued	150	112 50
Helyerson, John	30 31 15 ea	30	22 50
Helyerson, John	32 33 34 35 36 37 38 39-10 ea	80	60 00
Holyerson, John	not issued	5	3 75
Hargrave, E H	105	5	3 75
Hayward, C C	181	5	2 00
Hughes, S	183 184 185 3 ea	9	6 75
Hatch, F S	200	5	3 75
Johnson, John	28 40 41 42 43 44 45 46 47 48 49 50 51 52 25 ea	350	262 50
Johnson, John	53 54 55 56 57-10 ea	50	37 50
Johnson, Neils	111 112-25 ea	50	37 50
Johnson, Neils	110	20	11 00
Johnson, Neils	113 114 115 116 117 10 ea	50	37 50
Jones, J M	192	5	3 75
Kelsta, J	75	10	7 50
Kirk, Chas	23 24 25 28 20 ea	80	60 00
Kirk, Chas	106	5	3 75
Kirby, Z C	189	5	3 75
Lee, O N	72 73 10 ea	20	15 00
Lee, O N	not issued	13	9 75
Metz, Geo	144	5	1 50
Mott, Hiram	145 148 147 148 149 150 151 152 153 154 25 ea	250	187 50
Mauk & Son	168	14	10 50
Mauk & Son	170 187 168 169-10 ea	40	30 00
Nelson, Ole	199	10	7 50
Olson, Peter	68 69 70 10 ea	30	22 50
Olson, Peter	71	11	8 25
Owsus, J	57 and not issued-5 ea	10	7 50
Ogden, T	91 92 20 ea	40	30 00
Ogden, T	93 94 10 ea	20	15 00
Ogden, T	96 and not issued-15 ea	30	22 50
Olson, T	83	10	7 50
Olson, T	84	14	10 50
Palmer, S R	130 131 132 133-10 ea	40	30 00
Palmer, S R	134 135 5 ea	10	7 50
Pearson, Wm	188	10	7 50
Powers, J S	169	10	7 50
Rhodes, Alonzo	155	9	6 75
Rundell, Eli	165	15	11 25
Ramlin & Metz	202	10	5 50
Sciversou, Thomas	58 59 60-10 ea	30	22 50
Selverson, Thomas	not issued	21	15 75
Safford, H F	137 138 5 ea	10	7 50
Stoddard, Geo A	159	14¾	11 00
Sutherland, John	129	10	7 50
Smith, James	180	5	3 75
Skiuer, M B	182	10	7 50
Scott, H D	194	10	7 50
Senter, R	197	8	6 00
Thornton, O F	158	13	9 75
Thornton, O F	not issued	38	28 50
Tarbell, F W	83	10	7 50
Thompson, Thomas	135	5	3 75
Thompson, Philip	90 69-5 ea	10	7 50
Wilson, Robt	141	10	7 50
Wilson, Robt	142	9	6 75
Weeks, A R	171 172 173 174 175 176 177 178 25 ea	200	150 00
Weeks, A R	179	50	37 50
Werner, F	191	5	3 75

And in accordance with law, and an order of the Board of Trustees, made on the 10th day of July, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of Edwards, Olney & Co., 626 Montgomery street, San Francisco, on the 26th day of August, 1865, at the hour of 2 o'clock, P. M. of said day, to pay said delinquent assessment thereon, togsthsr with costs of advertising and expenses of sale.

J. WARREN CLARK, Secretary.

Office, No. 410 Montgomery street, San Francisco.

Tip Top Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Monday, September 18th, 1865, at 12 M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Union Copper Mining Co. No. 2, Ledge or Claim situated in Copper Canon District, county of Calaveras, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of August, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in gold coin of the United States of America, to the Secretary, at the office of the Company, California street, in the city of San Francisco.

Any stock upon which said assessment shall remain unpaid on the 4th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 23d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

OVE. TOUCHARD, Secretary.

Office, 415 California street.

San Francisco, August 3, 1865. au12

Wisconsin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on September 17th (Sunday)—changed to Monday, September 18th, 1865, at 10 A. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Whitton Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 5th, 1865, at 2 P. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Wide West Gold and Silver Mining Company, Silver Mountain District Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Thursday, September 7th, 1865, at 2 P. M. of said day.

au12-4w I. S. BROWN, Secretary.

Copper, Lead, Gold, Silver, Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,

Agent for Townshend, Wood & Co., Swansea,

No. 416 Battery Street, San Francisco.

15v10-3m

ORES WANTED.

Gold, Silver and Lead Ores Purchased.

OR WORKED BY SMELTING OR AMALGAMATING,

At my Metallurgical Works in this City

Assay Charges for Ore.....Only $2.50

Apply to **J. MOSHEIMER,**

14v10-1m 338 Montgomery Street, San Francisco

MARTIN & CO.,

Office, Stevenson House,

Corner California and Montgomery streets (up stairs).

WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES,

Assuying eight per cent. and upwards of Copper to the ton.

We will make advances upon Ores of Copper.

San Francisco, Post Office Box 1259. 22v10

To Prospectors.

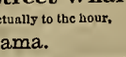
THE Directors of the San Francisco PACIFIC METALLURGICAL WORKS offer the following inducements to Prospectors:

NOTICE.—Knowing it will benefit our country to have it well prospected, we agree, if any party will forward us samples of minerals of any kind for assay, express paid, inclose TWO DOLLARS for the same, to return them a correct assay, with the best method of working, and feasibility of having the same worked in this city.

Works—North Beach. OFFICE—511 Sacramento street. Box 511, Post Office, San Francisco. [v9-20tf

Pacific Mail Steamship Co.

The following Steamships will be dispatched on the following named days.



August 18th—SACRAMENTO.....Capt. E. S. Farnsworth

September 2d—COLDEN CITY.....Capt. W. F. Lapidge.

From Folsom street Wharf

At 11 o'clock A. M., punctually to the hour.

For Panama.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company.

A Baggage Master will be sent through each trip.

Cabin passengers will be berthed for Atlantic steamer.

OLIVER ELDRIDGE, Agent.

Corner Sacramento and Leidesdorff sts.

"NOT A TREE IN SIGHT!"—There is much of human nature—much of what all have felt who have lived in grove-dotted lands—in the following story from the plains. An old gray-headed man, from the walnut-shaded streams of Iowa, was lying at the point of death in his wagon, which was then in the middle of what appeared a boundless desert. His friends felt it a duty to tell him that his end was near, that he might take leave of his family and arrange his affairs before Death, with icy clutch, seized upon him. The old man was told that he could not live through the day. "Lift me up, boys, and let me look out upon the country," said the patriarch. He was lifted up, and for a time his fast-glazing eyes were turned hither and thither, when he said: "Lay me down, boys; you must carry me on; I cannot die here; there is not a tree in sight!" The old man is yet alive, and is now "hale and hearty."

HOW RAPIDLY FISH CHANGE COLOR.—The change of color in fish is most remarkable, and takes place with great rapidity. Put a living trout from a black hurn into a white basin of water, and it becomes, within half an hour, of a light color. Keep the fish living in a white jar for some days, and it becomes absolutely white; hut put it then into a dark colored or black vessel, and although on first being placed there the white colored fish shows most conspicuously on the black ground, in a quarter of an hour it becomes as dark colored as the bottom of the jar, and consequently difficult to be seen. No doubt this facility of adapting its color to the bottom of the water in which it lives, is of the greatest service to the fish in protecting it from its numerous enemies. All anglers must have observed that in every stream the trout are very much the same color as the gravel or sand. Whether this change of color is a voluntary or involuntary act on the part of the fish, is a matter for scientific investigation and discussion.

WE have often formed the wish—and afterwards made a picture out of it—that we could he present at all the reconciliations in the world, because no love is so heautiful, or moves us so deeply, as returning love.

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LANN & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium), their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 16, 1865. 11v10-tf

PARAGON PETROLEUM COMPANY.

Incorporated June 2, 1865,

Under the Laws of the State of California.

CAPITAL STOCK,

$600,000.

NO. SHARES.....6,000

Par Value.....$100

OFFICERS:

President.....ROBERT KIRK

Treasurer.....WM. H. TOBEY

Secretary.....D. S. CUTTER

TRUSTEES:

ROBERT KIRK, T. O. DUFF, WM. H. TOBEY.

OFFICE:

At WM. H. TOBEY & CO.'S Petroleum Agency, Room No. 28 Government House, corner of Sansome and Washington streets, SAN FRANCISCO.

The claims of this Company consist of ONE HUNDRED AND SIXTY (160) ACRES of oil land, favorably located on the North Fork of the Mattolo river, adjoining the grounds of the Union Mattole Company, Mattole District, Humboldt county, California. The Company are now actively engaged in the development of the claims.

KELLOG CREEK

PETROLEUM AND MINING COMPANY.

INCORPORATED JULY 11TH, 1865,

Under the Laws of the State of California.

NO. SHARES.....10,000

Par Value.....$50 00

W. F. BRANDRETH.....President

J. M. BUFFINGTON.....Secretary and Treasurer

OFFICE—Room No. 10 Government House, corner of Sansome and Washington Sts., San Francisco.

The claims of this Company consists of SIX HUNDRED AND FORTY (640) ACRES, situated on Kellog Creek, in the Marsh Creek Mining District, Contra Costa county, Cal.

One thousand (1,000) shares of the contingent fund is offered at the low price of ONE ($1.00) DOLLAR per share, full paid, all the stock being unassessable. All who wish to purchase, or make any enquiry concerning the Company, will please call on the Secretary,

J. M. BUFFINOTON,

2v11 Corner of Sansome and Washington streets.

OIL WELL BORING.

J. SEVENOAKS,

Contractor

For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Penusylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Santa Cruz, Cal. 2v11

"Say, why should man for thirst be given
If not for wine bestowed by Heaven
To quench such drought as mine?
Without it, I'm a fish on land,
A barren heap of parching sand—
Then give me joyous wine."—*Trinidad.*

Delicacy of flavor, exhilaration without intoxication, and every other desirable property belonging to the rightly fermented Juice of the Grape, are to be found in the "Gerke Wine," from the celebrated Bosquejo Vineyard, Tehama county.

There is no wine produced in California that can bear comparison with this, and it would be difficult to find a European wine, of the same class, that can surpass it.

The vintage of 1862 is now offered for sale, in quantities to suit, by the Agent of the vineyard,

A. S. LOWNDES,

Basement of the New York Hotel, southwest corner Battery and Commercial streets, San Francisco. 20v10-qy

Mining Notices--Continued.

☞ *New Mining Advertisements to be found on another page.*—☜

Bella Vista Gold and Silver Mining Company, Cacachillas District, Lower California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 26th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
A Cameron	118 119 120 121 122 123 124 167	05	$15 25
Mr J Collins	19	6	1 25
J E Abbott	62	50	12 50
Chas Phelps	97	6	1 50
Theo Neiborn	140 141	18	4 50
James Sherry	156	16	4 50
John Dunn	168	10	2 60
J R Kuenzi	170	10	2 50
S B Thompson	171 189 191	125	31 25

And in accordance with law and an order of the Board of Trustees, made on the 26th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on the 12th day of August, 1865, at the hour of 11 o'clock A. M of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale

J. FULLER, Secretary.

Office, 326 Clay street, San Francisco. jy29-3w

Bolinas Petroleum Company, Bolinas Township, Marin County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 30th day of June, 1865, the several amounts set opposite the names of the respectivo shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Baxter, E H	11	50	$12 50
Borker & Rosenfield	20	100	25 00
Colwell, Jess	15	50	12 50
Holden, Wm	13	50	12 50
Haxe, J G	16	50	12 50
Ingram, R	17	50	12 50
Rowe, E S	19	100	25 00
Thompkins, T B	8 9	50	12 50

And in accordance with law and an order of the Board of Trustees, made on the 5th day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the Company's office, No. 611 Clay street (Room 6), on the 19th day of August, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. L. KIRBY, Secretary.

Office, 511 Clay street, San Francisco. au5-3w

Camargo (Eclipse) Gold and Silver Mining Company, Reese River Mining District, Lander Co., Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 17th day of July, 1865, an assessment of five ($5) dollars per share, in United States Legal Tender Notes, was levied upon the capital stock of said Company, payable at once, to the Secretary, at his office, or to W. B. C. HARKER, Superintendent, at Austin, Nevada.

Any stock upon which said assessment shall remain unpaid on the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 6th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale.

WM. T. REYNOLDS, Secretary.

Office, 423 Front street, San Francisco. jy22

Cherokee Gold and Silver Mining Company, Echo District, Humboldt county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 23d day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	Ne. Certificates.	No. Shares.	Amount.
J R Colburn	104	40	$30 00
J R Colburn	105	16	13 50
J R Colburn	106	15	11 25
J R Colburn	108	10	7 50
J R Colburn	109	5	3 75
J R Colburn	110	2	1 50
G Chittenden	8	5	3 75
—Washburn	10	25	16 75
J P Spaulding	111	55	41 25
C Viets	52	60	50 00
G T Sewall	16	25	16 75
J H Gager	16	25	16 75
M W Lake	24	25	16 75
N B Terwilliger	28	5	3 75
S Peneton	29	1	76
S Howard	30	2	1 50
V Baron	31	10	7 50
S A Anderson	33	1	75
R Gardner	50	10	7 50
J B Murphy	98	25	18 75
O A Wager	90	5	3 75
H Powell	89	5	3 75
H Horstmau & Co	92	4	3 00
Joseph Bardano	90	15	11 25
S W Raveley	111	4	3 00
E Chevassus	209	554	415 50
T Ogg Shaw	94	3	2 25
T Ogg Shaw	95	3	2 25
T Ogg Shaw	103	75	56 25
Wm Troop	26	26	21 00
Wm Troop	50	20	15 00
Wm Troop 55 57 59 60 65 65 71 72 73 74 75 75 77 78 79 60 61 82 83 84 65 66 25 ea	550		412 50
Wm Troop	210	51	38 25
A K Colburn	5 07-25 ea	50	37 50
A K Colburn	6 67 88-5 ea	15	11 25
A K Colburn	91	2	1 50
A K Colburn	07	10	7 50
A K Colburn	69	20	15 00
J L Dawns 34 35 35 37-10 ea	40		30 00
J L Dawns	33	15	11 25
L Franconi	206	554	415 50
L Franconi	203	440	334 50
W S Emery	39	100	75 00
W S Emery 40 41 42 10 ea	30		22 50
W S Emory	43	5	3 75
W S Emory	45	6	4 50
W S Emery	46	7	5 25
W S Emery	48	3	2 25
W S Emery	40	2	1 50
M H Fry 99 100 25 ea	50		37 50
M H Fry	101	20	15 00
M H Fry	102	5	3 75
M H Fry	114	4	3 00
W Brokaw 119 120 121 122-25 ea	100		75 00
W Brokaw	123	19	14 25

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on Saturday, the 12th day of August, 1655, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

L. FRANCONI, Secretary.

Office, northeast corner of Montgomery and Jackson streets (Room No. 16), San Francisco. jy29-3w

POSTPONEMENT.—The above sale is hereby postpoucd until Tuesday, August 22d, 1855, at the same hour and place. By order of the Board of Trustees.

L. FRANCONI, Secretary.

San Francisco, August 4th, 1865. au5

Chloride Ledge Gold and Silver Mining Company. Location of Mine: Blue Mountain District, Calaveras county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 11th day of July, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, No. 606 Montgomery street, San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 12th day of August, 1655, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1665, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. H. SMITH, Secretary.

Office, No. 606 Montgomery street, San Francisco. jy15

POSTPONEMENT.—The advertisement of stock delinquent on the above assessment is hereby postponed until Saturday, August 19th, 1865, and the sale thereof until Saturday, September 2d, 1865. By order of the Board of Trustees.

au12-1w R. H. SMITH, Secretary.

El Dorado Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 5th day of June, 1665, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Avery, J W	152	50	$35 00
Addison, J H	159	5	3 50
Adams, I S	214	10	7 00
Baker, C	112	5	3 50
Brown, I S	103	10	7 00
Bartlett, S A 107 108 105 109 110 52 53 64 65-5 ea	45		45 00
Bartlett, S A	60 51-10 ea	20	20 00
Bartlett, S A not issued and 65 57 68 69-20 ea	100		100 00
Bartlett, S A	70	22	22 00
Bartlett, J A	155	10	10 00
Budington, W	210	25	25 00
Curran, B	150	10	bal 2 00
Castle, Mrs M J	213	10	bal 2 00
Conger, Thomas	164	125	37 50
Collins, G L 33 34 35-25 ea	75		37 00
Cooper, Frank 1 2 3 4 138 139 140 141 5 ea	40		40 00
Cooper, Frank 5 7 8-10 ea	30		30 00
Cooper, Frank 9 9 10 11-20 ea	60		80 00
Cooper, Frank	12	30	30 00
Cooper, A S	20	10	10 00
Cooper, A S 21 22-20 ea	40		40 00
Cooper, A S 23 24-25 ea	50		50 00
Cooper, A S 25 26-50 ea	100		100 00
Davis, S H	175	5	3 50
Dougherty, Phehe 189 190 191 192-10 ea	40		26 00
Dougherty, Ezra	195	10	7 00
Eagler, Wm C	205	5	3 50
Ford, R H	45	26	21 00
Fishcr, B C	147	6	3 50
French, L E	160	6	3 50
Felker, W	211	5	3 50
Gardner, C A	143	10	2 00
Geedwin, Mrs R J	216	10	2 00
Gray, Jehn	198	60	35 00
Gray, Jehn	199	25	17 50
Gray, Jehn 200 201 202 203 204-10 ea	60		35 00
Gould, A J	167 166-25 ea	50	35 00
Hill, John	171 172 173-50 ea	150	140 00
Houston, G D	160	6¾	4 70
Hall, E	163	10	7 00
Irving, David	183	2	1 40
Liddy, Catherine	71	10	2 00
Larson, Henry	184	10	7 00
Morgan, Benj	74	10	7 00
McMillan, Robert	100	5	3 50
Mason, A	161	5	3 50
Miller, F S	165	3	3 00
McPyke, H W	162	10	7 00
Otis, G H	156	2	2 00
Otis, O H 177 176 179-1 ea	3		3 00
Parsons, G H 79 152-5 ea	10		7 50
Porter, F F	174	25	17 50
Preston, J H	212	6	3 60
Scott, H D	120	5	4 50
Scott, H D	17	15	13 50
Scott, H D 13 14 16-25 ea	75		67 50
Staples, A F	102	5	1 00
Scott, Wm	146	5	3 50
Sinclare, A	161	3¾	2 35
Swinerton, H E	217	3	60
Sutherland, John	196	5	2 75
Sutherland, Johu not issued and 116 117-10 ea	30		16 50
Treat, H W 76	50		39 00
Treat, H W 62 83 65 86 67 86 60 90 91 and uot issued-10 ea	100		90 00
Tomson, S W	126	10	7 00
Thoburn, Thomas	129	10	7 00
Toleman, O G	101	5	1 00
Victory, Johu	130	10	7 00
Victory Eliza E	187	2	1 40
Victory, Louisa	188	2	1 40
Victory, John J	165	2	1 40
Victory, Louisa M	166	2	1 40
Wadsworth, Frank 27 31-25 ea	50		50 00
Wadsworth, Frank	30	15	12 45
Wadsworth, Frank	153	20	16 75
Whitton, R J	131	10	10 00
Whitton, M S	134	10	3 00
Whitton, Wm H	125	10	10 00
Weir, James	151	5	3 50
Wait, George	158	10	7 00
Waterman, E R	176	5	3 50
Wood, A B	209	5	3 50
Winn, M	197	10	7 00
Young, Henry	206	5	3 50

And in accordance with law and an order of the Board of Trustees, made on the 5th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the office of Edwards, Olney & Co., No. 526 Montgomery street, San Francisco, Cal., on the 7th day of August, 1855, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. WARREN CLARK, Secretary.

Office, 410 Montgomery street, San Francisco. jy22

POSTPONEMENT.—The above sale is hereby postponed until August 14th, 1665, at the same hour and place. By order of the Board of Trustees.

jy29 J. WARREN CLARK, Secretary.

Emilia Mining Company, State of Guerrero, Mexico.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 20th day of June, 1666, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Bepler, Justus	74	100	$50 00
Bilay, A F	4	20	10 00
Bilay, A F	5	20	10 00
Dorgeloh, L	9	40	20 00
Ewald, A	36	20	10 00
Knight, E F	121	15	7 50
McLeran, T G	17	50	25 00
McLeran, T G	143	50	25 00
McLeran, T G	145	30	15 00
McLeran, T G	146	50	25 00
Merrill, A	144	50	25 00
Reihensteia, F	113	25	12 50
Rœmer, C	18	25	12 50
Sosser, P	26	20	10 00
Sesser, P	33	30	15 00
Strohl, P	170	45	22 50
Traxell, Wm	72	30	15 00
Traxell, Wm	225	15	7 50

And in accordance with law, and an order of the Board of Trustees, made on the 26th day of June, 1665, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Edwards, Olney & Co., at 526 Montgomery street, San Francisco, on Saturday, the 12th day of August, 1665, at the hour of 12 o'clock M of said day, to pay said delinquent assessment thereon together with costs of advertising and expenses of sale.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, southeast corner of Montgomery and Washington streets. Office hours: 10 A. M. to 4 P. M.

San Francisco, July 29, 1865. jy29-3w

Eagle Quartz Mining Company, Amador County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 29th day of July 1665, an assessment of seventy-five (75) cents per share was levied upon the capital stock of said Company, payable on the 31st day of July, 1665, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of September, 1665, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 22d day of September, 1665, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

G. PARDOW, Secretary.

Office, 15 Montgomery Block, San Francisco, au5

First National Petroleum Company.

NOTICE.—A Meeting of the stockholders of the First National Petroleum Company will be held on Tuesday, August 15th, 1865, at 2 o'clock P. M., at the office of the Company, No. 617 Montgomery street. By order of the Board of Trustees.

THOS. NEWCOMB, Secretary.

San Francisco, July 31, 1865. au5-2w

Great Western Tunnel and Mining Company, Aurora, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 27th day of July, 1865, an assessment of ten (10) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

JOS. C. FORD, Secretary.

Office, No. 20 Exchange Building, corner Washington and Montgomery streets, San Francisco. jy29

Office of the Globe Gold and Silver Mining Company, San Francisco.—Location: Monitor Mining District, Alpine county, California.

NOTICE.—There will be an Annual Meeting of the stockholders of the Globe Gold and Silver Mining Company, at the office of said Company, 410 Montgomery street, in the city and county of San Francisco, on the 21st day of August, 1865, at 2 o'clock P. M., for the purpose of electing Trustees and for the transaction of such other business as may be brought before the stockholders.

LEVI MILLER, President.
WM. HANNAH, } Trustees.
jy22-4w J. S. POWERS, }

Hancock Copper Mining Company, Low Divide District, Del Norte County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 25th day of July, 1865, an assessment of fifteen (15) cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 12th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

S. S. SWEET, Secretary.

Office, 609 Market street, San Francisco. jy29

Hallock Gold and Silver Mining Company—Location of Works: Great Mogul Mining District, county of Alpine, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of July, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 311 Commercial street, San Francisco, or to M. Scott, Mogul, Alpine county, Cal.

Any stock upon which said assessment shall remain unpaid on the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 26th day of August, 1865, to pay the delinquent assessment, together with the costs of advertising and expenses of the sale.

H. B. FORESTER, Secretary.

Office, 311 Commercial street, San Francisco. jy15

POSTPONEMENT.—At a meeting of the Board of Trustees of the Hallock Gold and Silver Mining Company, held on the 10th day of August, 1865—*Ordered*, That the publication of sale of delinquent stock on Assessment No. 7, levied July 5th, 1865, be postponed to August 26th, 1865, and the day of sale to September 9th, 1865, and that the same be published in the Mining and Scientific Press.

au12 H. B. FORESTER, Secretary.

Honest Miner Gold and Silver Mining Company, Reese River Mining District, Lander Co., Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of July, 1865, an assessment (No. 5) of fifty cents per share was levied on the 22d day of July, 1865, upon the capital stock of said Company, payable immediately, in gold coin of the United States, to the Secretary, at his office, No. 223 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 12th day of September, 1865, at 3 o'clock P. M., to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. A. DRINKHOUSE, Secretary.

Office, 223 Front street, San Francisco, Cal. jy2J

Jewett Gold and Silver Mining Company.—Location of Works, at Gold Hill, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of July, 1865, an assessment of one dollar per share was levied upon the assessable capital stock of said Company, payable on the 22d day of July, 1865, in United States gold coin, to the Secretary, at the office of the Company, 509 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

O. M. BURNHAM, Secretary *pro tem.*

Office, 509 Clay street, San Francisco. jy22

Imperatrice Eugenie Gold and Silver Mining Company—Location of Works: Blue Mountain Mining District, County of Calaveras, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 1st day of August, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 804 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 2d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 19th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

A. KOENIG, Secretary.

Office, 804 Montgomery street, San Francisco au5

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

La Victoire Copper Mining Company.

NOTICE TO CREDITORS.—All parties having claims against said Company up to August 1st, 1865, are requested to send copies of the said claims, without delay, to L. L. ROBINSON, Esq., Chairman of the Committee appointed by the stockholders, at their meeting of the 20th July, 1865. By order of the President.

G. FRANCIS PETRARCHI, Secretary.

Address Mr. L. L. ROBINSON, care of Messrs. Pioche & Bayerque, San Francisco. au5 2w

La Victoire Copper Mining Company.

The shareholders of the above Company are hereby notified that a general meeting of their body will take place on Saturday, the 19th day of August, 1865, at 10 o'clock A. M., at the office of Messrs. Pioche & Bayerque, for the purpose of transacting any and all business that may be brought before the meeting by any shareholder of said Company. By order of the President.

au5 2w G. FRANCIS PETRARCHI, Secretary.

La Libertad Gold and Silver Mining Company, Cacachillas District, Lower California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 27th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Samuel Pillsbury	36	20	$10 00
Samuel Pillsbury	37	20	10 00
Samuel Pillsbury	38	20	10 00
Samuel Pillsbury	39	10	5 00
Samuel Pillsbury	40	10	5 00
Samuel Pillsbury	41	10	5 00
Samuel Pillsbury	42	10	5 00
H L Chamberlain	142	90	45 00
Richard Coppithorne		5	2 50
John Eade	52	40	20 00
E Sawin	124	6	3 00
C Clark	32	5	2 50
A H Jordan	160	20	10 00
Clark Avery	164	5	2 50
E M Mallory	172	65	32 50
H L Chamberlain	not issued	32	16 00

And in accordance with law, and an order of the Board of Trustees, made on the 27th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Edwards, Olney & Co., 626 Montgomery street, San Francisco, on Monday, the 21st day of August, 1865, at the hour of 2 o'clock P. M, of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

WM. VALE, Secretary.

Office, 36 Exchange Building, northwest corner of Washington and Montgomery streets, San Francisco. au5-3w

Lord Byron Gold and Silver Mining Company, Devil's Gate District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of July, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 29th day of July, 1865 in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

H. B. CONGDON, Secretary.

Office, No. 620 Washington street (Room 5), San Francisco, California. jy29

Mosquito Quartz Mining Company, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22d day of July, 1865, an assessment of five ($5) dollars per share (one dollar per foot), was levied upon the capital stock of said Company, payable on the 24th day of July, 1865, in United States gold coin, to the Secretary, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 15th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. PARDOW, Secretary.

Office, 15 Montgomery Block, San Francisco. jy29

Napa Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 24th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names	No. Certificates.	No. Shares.	Amount.
Allred, W C	not issued	190	$57 00
Adams, I S	78	5	3 00
Avery, J W	124	25	10 00
Arnold, Mrs B W	45	5	1 50
Berry, Geo	68	25	15 00
Berry, Geo	not issued	93½	56 00
Badger, Geo	69 70 71 72-5 ea	20	10 00
Bartlett, S A	73	10	5 00
Bartlett, S A	190	5	3 00
Bollingor, Francis	75	5	3 00
Barker, E M	135	5	3 00
Boyd, J T	141	50	24 60
Boyd, J T	142	18	10 80
Buchard, J C M	186	1	60
Coon, M R	not issued	35	21 00
Carlisle, H J B	142	16⅔	5 00
Darnes, Mrs E A	47	10	6 00
Davis, Solon H	138	5	3 00
DeCraff, Wm	42	10	3 00
Egan, E D	159	5	3 00
Egan, E D	160 161 162 163 164 165-10 ea	60	36 00
Egan, E D	not issued	78⅓	47 00
Eagles, Wm C	174	5	3 00
Ford, R H	126 127 128 129-5 ea	20	12 00
Ford, R H	175	2	1 20
Folker, Wm	184	5	3 00
Hawkins, H J	2	50	30 00
Hawkins, H J	5	10	5 00
Hargrave, E J	22 10-5 ea	10	6 00
Hay, Thomas	33 34 35 36 37 38 39 40-10 ea	80	48 00
Haire, Samuel	143	25	15 00
Haslie, Robert	183	5	3 00
Hull, Wm	188	5	3 00
Hansom, Iver	189	5	1 50
Kirk, Charles	not issued	100	30 00
Larson, C	8 10-20 ea	40	21 00
Larson, C	12 13-10 ea	20	12 00
Larson, C	not issued	35	21 00
McCormack, Jas	not issued	81	50 40
McMillan, Robert	51	5	3 00
Phillips, S S	108	15	6 50
Preston, J H	185	5	3 00
Robinson, L S S	58	5	2 00
Rhodes, Isaac	113 114 115 110 117-10 ea	50	30 00
Slaven, John	30 31-10 ea	20	10 00
Slaven, John	33	13	7 80
Stephens, Andrew	119	10	6 00
Townsend, Sarah	108	3	1 80
Victor, H C	177	10	6 00
Wheeler, W J	123	20	11 00
Wheeler, W J	not issued	150	90 00
Whitton, R J	46	5	3 00
Whitton, R J	98	10	6 00
Whitton, Wm H	99	25	15 00
Whitton, Wm H	102 103 104-5 ea	15	8 50
Whitton, Wm H	107	2½	1 50
Waterman, E R	130	5	3 00
Winn, M	172	10	6 00
Winthrop, M W	173	10	6 00
York, E M	202	1	60

And in accordance with law, and an order of the Board of Trustees, made on the 24th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Messrs. Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, on the 19th day of August, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. WARREN CLARK, Secretary.

Office, 410 Montgomery street, San Francisco. au5-3w

Porter Gold and Silver Mining Company, Virginia District, Nevada,

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of July, 1865, an assessment of five dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at 534 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. W. WESTON, Secretary.

Office, 534 Clay street, San Francisco. jy22

Old Colony Silver Mining Company, Austin, Reese River Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of July, 1865, an assessment of five ($5) dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 523 Montgomery street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. O. HOWARD, Secretary.

Office, 523 Montgomery street, San Francisco. jy29

Paragon Petroleum Company.—Office, Room 28 Government House, corner Washington and Sansome streets, San Francisco, Cal.—Location of Mine: Mattole District, Humboldt county, California.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 1st day of July, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Alden, R C	35	100	$30 00
Alden, R C	36	100	30 00
Alden, R C	37	100	30 00
Brown, R G	29	50	15 00
Brown, R G	30	50	15 00
Brown, R G	31	50	15 00
Brown, R G	32	50	15 00
Byers, J M	70	50	15 00
Dyer, J P	83	200	60 00
Dewey, A T	64	100	30 00
Dewey, A T	65	70	21 00
Ewer, W B	66	100	30 00
Ewer, W B	67	70	21 00
Mills, J J	80	10	3 00
Osborne, H B	87	50	15 00
Pinkham, J F	2	20	6 00
Poland, F S	24	20	6 00
Poland, F S	25	20	6 00
Poland, F S	26	20	6 00
Poland, F S	27	20	6 00
Poland, F S	28	20	6 00
Smith, C W M	68	100	30 00
Smith, C W M	69	70	21 00
Waters, E D Jr	63	50	15 00
Waterman, E R	71	10	3 00
Waterman, E R	72	10	3 00
Waterman, E R	73	10	3 00
Waterman, E R	74	10	3 00
Waterman, E R	75	10	3 00

And in accordance with law, and an order of the Board of Trustees, made on the 1st day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the salesroom of Edwards, Olney & Co., at No. 626 Montgomery street, San Francisco, on Saturday, the 19th day of August, 1865, at the hour of 10 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

D. S. CUTTER, Secretary.

Office, Room 28 Government House, corner Washington and Sansome streets, San Francisco, Cal. au5-3w

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander Co., Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 10th day of July, 1865, an assessment of fifty (50c) cents per share was levied on the 15th day of July, 1865, upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, E. J. DRINKHOUSE, No. 223 Front street, San Francisco, or to GEO. T. TRASY, Austin, Lander county, Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 6th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

E. J. DRINKHOUSE, Secretary.

Office, No. 223 Front street, San Francisco. jy15

St. Clair Consolidated Mining Company, Smoky Valley District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 31st day of July, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 24 day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

AUGUST KUNAST, Secretary.

Office, 340 Washington Street, au5

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine county, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 8th day of July, 1865, an assessment of sixty cents per share was levied upon the capital stock of said company, payable on the 10th day of July, 1865, in United States gold and silver coin, to the Secretary, at the company's office, No. 55 Montgomery Block, city and county of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 26th day of August, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, S. E. corner of Montgomery and Washington streets. Office hours: 10 A. M. to 4 P. M. San Francisco, July 8, 1865. jy15

POSTPONEMENT.—The advertisement of stock delinquent on the above assessment is hereby postponed until Saturday, the 19th day of August, 1865, and the sale thereof until the 2d day of September, 1865. By order of the Board of Trustees. (au12) T. B. CUNNINGHAM, Secretary.

Sheba Gold and Silver Mining Company, Star District, Humboldt county, Nevada.—Office, 712 Montgomery street, San Francisco, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 8th day of May, 1865, an assessment of five dollars, and on March 14th, 1865, an assessment of five dollars, and on November 25th, 1864, an assessment of fifteen dollars per share, was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company.

Any stock upon which said assessments, or either of them, shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessments, or either of them, together with costs of advertising and expenses of sale. By order of the Board of Trustees, made on the 17th day of July, 1865.

S. T. KING, Secretary.

Office, 712 Montgomery street, San Francisco.

NOTICE.—The Board of Trustees of the Sheba Gold and Silver Mining Company, having been legally advised that the second postponement of sale of stock delinquent for above assessments, made on July 5th, 1865, was unauthorized by law, have ordered the publication to be begun anew, as above. (jy22) S. T. KING, Secretary.

Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 29th day of June, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Clapp, Mrs L A K	57	7	$3 50
Clapp, Mrs L A K	159	13	6 50
Doherty, Mrs J C	327 328-6 ea	12	6 00
Dorland, Thomas	239	50	25 00
Doyle, James R	347	86	43 00
Geddis, Wm H	33	16	8 00
Geddis, Wm H	34 35 36 37 38-10 ea	50	25 00
Howell, James	56	7	3 50
Howell, James	325	270	135 00
Hale, Calvin H	165	5	2 50
Hale, Calvin H	336	20	10 00
Hinchhorn, J E	196	15	7 50
Hanson, C	200	15	7 50
Johnson, John	351	25	12 50
Jeffries, M S	334	30	15 00
Minot, William	352	125	62 50
Mason, N H A	143	133	66 50
Nichols, Emily	218	5	2 50
Nichols, Wm N	143	133	66 50
Newby, Richard	240	57	28 50
Newby, Richard	246 301 302-20 ea	60	30 00
Newby, Richard	247 303 304 305 307-10 ea	50	25 00
Newby, Richard	264 271-50 ea	100	50 00
Nowby, Richard	306	3	1 50
Nelson, L M	331	40	20 00
Phillips, Mrs M F	150	5	2 50
Pelton, Miss N C Malvina	252	1	50
Rockafelar, Daniel	220	5	2 50
Stuart, L D	160	3	1 50
Smith, Mrs C A	238	5	2 50
Sawyer, C L	256	10	5 00
Van De Water, R J	136	4	2 00
Van De Water, R J	136	30	15 00
Van Vlack, Henry	277	15	7 50
Van Vlack, Henry	239	5	2 50

And in accordance with law, and an order of the Board of Trustees, made on the 29th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Edwards, Olney & Co., 626 Montgomery street, San Francisco, on Monday, the 14th day of August, 1865, at the hour of 12 o'clock M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco. jy29-3w

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Office of the United States Gold and Silver Mining Company, San Francisco, Cal.—Location of Mines: in Santa Fe and Ravenswood Mining Districts, Lander county, Nevada.

Notice is hereby given, that in accordance with a resolution of the Board of Trustees of the above named Company, passed on Wednesday, the fifth day of July, 1865, and in accordance with the by-laws of said Company, a meeting of the stockholders of the above named Company will be held at the office of the Company, No. 605 Clay street, in this city, on Thursday, the tenth day of August next, at 7½ o'clock P. M., for the purpose of authorizing and empowering the Trustees of said Company to sell one or more of the mines belonging to the said United States Gold and Silver Mining Company, and for the purpose of changing the by-laws of the same, and for the transaction of any and all business that may legally come before the meeting. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

San Francisco, July 5, 1865. jy8-5w

The above meeting is hereby adjourned to the 24th last., at the same hour and 540 Clay street. By order of the Board of Trustees.

au 12 J. T. PENNELL, Secretary pro tem.

Whitinch Yankee Blade Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22d day of July, 1865, an assessment of ten dollars per share was levied upon the capital stock of said Company, payable immediately, in United States currency, to the Secretary, 402 Front street (up stairs), San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 12th day of September, 1865, to pay the delinquent assessment thereon, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street (up stairs), San Francisco. jy22

Wisconsin Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

Assessment No. 4.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of July, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the company, or to R. H. Fonn, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.

Office, No. 410 Montgomery street, San Francisco.

Notice.—At the above meeting, assessment No. 1, of 8 cents, levied July 8th, 1863, assessment No. 2, of 10 cents, levied September 19th, 1863, and assessment No. 3, of 50 cents per share, levied June 3d, 1864, were rescinded, and stockholders having paid the same, or any portion, will be credited on above assessment, No. 4 accordingly.

jy22 J. WARREN CLARK, Secretary.

Yosemite Mining Company, Oro Fino District, Humboldt county, Nevada.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 3d day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Bennett, E D	88	5	$6 25
Bennett, E D	89	5	6 25
Cathers, James	1	100	125 00
Cathers, James	2	50	62 50
Cathere, James	3	50	62 50
Cathers, James	6	10	12 50
Cathers, James	7	10	12 50
Folsom, A	70	25	31 25
Folsom, A	71	25	31 25
Folsom, Mrs R A	87	25	31 25
Hedges, Wm H	49	5	6 25
Hedges, Wm H	60	15	18 75
Hedges, N M	61	35	43 75
Haasen, Chas	86	50	62 50
Potter, Theron	111	5	6 25
Potter, Theron	112	5	6 25

And in accordance with law, and an order of the Board of Trustees, made on the 3d day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on the 19th day of August, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

S. O. PUTNAM, Secretary.

Office, No. 402 Front street (up stairs), San Francisco. au5 3w

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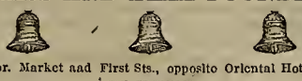

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Monitor, Alpine county, Cal.

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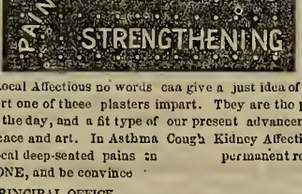

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SAN FRANCISCO, SATURDAY, AUGUST 19, 1865.

VOLUME XI. Number 7.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides and the evidence of any error which may appear will be received in friendship and treated with respect.

American and Foreign Patents.—Letters Patent for inventions can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

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During the Fair

We hope the readers of the MINING AND SCIENTIFIC PRESS will look with leniency upon any deficiencies they may observe from the usual contents and make-up of our journal. Correspondents will also please bear patiently with the crowded state of our columns in giving full reports of the Exhibition.

OUR PAPER BY EXPRESS.—Owing to the fact of Wells Fargo & Co requiring publishers to pay 2½ cents per copy in advance on papers sent to subscribers in the interior we are obliged to make our subscription terms by express $6.50 per annum.

MINING AND SCIENTIFIC PRESS

PATENT AGENCY.

For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 4th, 1861, and March 3d, 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be witheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $30 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues. If the application is rejected, we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the invention shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. One fee for preparing the case is then due and will be called for. The case will then be prescribed to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the case consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 y'rs and 6 mos...	$10
On every application for a design, for seven years.....	15
On every application for a design, for fourteen years.....	30
On every application for a patent, for seventeen years...	15
On every caveat.....	10
On issuing each original patent.....	20
On filing a disclaimer.....	10
On every application for a re-issue.....	30
On every additional patent granted on a re-issue.....	30
On every application for an extension.....	50
On the grant of every extension.....	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C....	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, No. 505 Clay street, corner of Sansome, San Francisco.

[Written for the Mining and Scientific Press.]

Mining at Reese River—The Mills about Austin, and their Management.

[Continued from last week.]

The next cause of the unproductiveness and temporary stoppage of work on many other really excellent mines in this district, is the fact that they belong to and are managed by incorporated companies, the officers of which are more interested in securing a "snug berth" for some one or more of their friends than in making the mine pay a dividend to the stockholders—some "Dandy Jim" from San Francisco, who jumps from behind the counter right down into the meanderings of Dame Nature's veins and arteries, demonstrating to a nicety how he would oblige the "old lady" to deliver up, at the touch of his "magic wand," (yard stick) the silvery streams circulating throughout her vast and complicated system. Of course, he could measure dry goods, vend cigars, gauge a barrel of chain-lightning, and compound it into the bargain. Wherefore, his activity as surveyor, engineer, gsologist, etc., etc. He passes muster, comes to the mountains, perhaps for the first time in his life, takes absoluts control of a mine; in many cases already well developed by the hard toil and well directed blows of the humble but practical and skillful miner. A change of operations must be had, the better to show his authority and—astuteness. He being mining engineer, by the grace and favor of his friends, cannot entertain suggestions from his subordinates, whose practical eye at once detects the error of the new-fangled innovation. His motto is, "Authority must and shall prevail," until the ledge is perhaps entirely lost, and the thousands of assessments also gone and literally "run into the ground." A grand collapse ensues—mine stopped—several of the hard working men are left unpaid, although the officials are paid in full. Superintendent declares the mine a humbug and a failure, and in many cases, to cover his own ignorance and shame, he takes especial pains to write down the whole district in which he figured, as a cheat and an imposition.

From such, no doubt, are manufactured many of the unfavorable reports regarding the mines of this place. But from such it has nothing to fear; its progress is marked and sure; of this proof, the most tangible, is to be seen and felt on every side. No apprehension need be felt of any serious consequences to the mining interests here from the temporary cessation of work on some of its most valuable ledges, which has been brought about by incompetent management. When we contrast the management of such mines as the Manhattan, Confidence, Midas, Whitlatch, Yankee Blade, Savage, North River, and many others I could name, with that of those "Jim-crack" institutions above described, and compare results, we should not wonder that the stockholders of the latter have come to a stand-still, and begin to inquire as to "what's the matter."

Take for instance the Manbattan mine, (late Oregan). It had nothing superior to those around it in its favor, either in its extent, richness of its ores, or in a geological or mineralogical point of view. It has always been subject to "nipping-out," breakages, and other disadvantages incident to all mineral veins; yet it has gone steadily on, enriching its fortunate owners, under the able but unpretending management of its worthy superintendent, Mr. John Frost. Mr. Frost has, by his sound practical knowledge of the business entrusted to him, not only filled the purses of himself and partners, but at the same time built the first really efficient mill in the town of Austin. And all this, by well applied means taken from their mines, while the "kid gloved gentry" were (instead of taking it from their mines) extracting it from the pockets of the unfortunate shareholders.

Another such example as that set by Mr. Frost may be found in the management of the Confidence mine, under the very excellent superintendence of Mr. Henry Newton. He, too, by unwavering perseverance and skill, succeeded in bringing the Confidence mine from comparative obscurity to a most enviable notoriety, being now, like the Manhattan, one of the leading claims in the district. Many others I might enumerate, but space will not admit at present.

I shall now close, by simply adding that it is fortunate for Reese River that there have been found at least a few of the right material among the worthy pioneers of the country, possessed of muscle, brains, energy and skill sufficient to enable them to lead the van in proving her merit to the title of being one of the richest mineral countries in the world.

J. R. M.

A BEAUTIFUL DISPLAY.—There are some articles in the Fair, very beautiful to be sure, but which are understood analytically at a glance; and there are others which constitute a study. They possess a world of interest, and are more attractive and instructive every time they are looked upon. Of such a character are those splendid gold, silver, copper, cinnabar, talc, sulphuret, mica, iron, hornblende, sand, agate, putrifaction, bark, wood, and other specimens exhibited at the Fair by Capt. J. M. Aiken. A more beautiful, elaborate or valuable mineralogical cabinet does not exist in the United States. It is the collection of years of patient toil and study—the classified arrangement of a gentleman deeply learned and attached to this particular branch of science; and, we are pleased to say, meets with that high appreciation which its rare merits so richly deserve. The affable courtesy and polite particularity with which Captain Aiken explains the especial features of the collection to visitors and inquirers, adds a charm to the department over which he presides.

WILLIS' BAND.—The music discoursed at the Pavilion is first class. Without it, the evenings would not be near so agreeably spent. With it, this brilliancy of everything is greatly hightened. When some favorite gem from the operas is discoursed, the eyes of the young ladies brighten and sparkle. The charming creatures trip over the floor with an elastic step and smile with a bewitchery that is "taking." The old folks sit down to listen to it; the poets, struck by some original idea under its ravishing influence, draw forth their note-books to make a memorandum; and the exhibitors become eloquent, hearing its strains, in describing the remarkable features of their different inventions.

FRUITS.—The collection of fruits was rather small at the opening of the Fair; but we observe that Mr. D. L. Perkins, the Golden Gate seed man, of Oakland, has spread a table of choice varieties from his gardens, which add materially to the interest of the horticultural department.

Descriptive Catalogue

—OF THE—

INDUSTRIAL EXHIBITION

Of the Mechanics' Institute, 1865.

1 Leffel & Meyers, Portland, Oregon: five Leffel's American Double Turbine Water Wheels, invented in Springfield, Ohio, 1862; four Leffel's Lever Jacks.

The smallest of the wheels on exhibition is a model; the next above is a brass wheel, six and five-eighths inches in size. This wheel, we are assured, has been in use eight months, at Spring Valley, Green county, Ohio, where it drove a woolen-mill of the following capacity: Three carding machines, thirty-six inches wide, with condensers; one spinning-jenny, 156 spindles, four broad power-looms, reels, pickers, etc., etc., under a twenty-five feet head with full power and entire satisfaction. It was then given to the Sanitary Fair, at Cincinnati, and bought by Chas. H. Gilgore, then given to the Sanitary Fair of Philadelphia, when it was purchased by Rev. A. Meyers, the present exhibitor. The next in size is a 10-inch wheel, and has been running at Mountain Spring, three miles east of Portland, Oregon, for six months. Under twenty-five feet head, it drove a 40 inch circular saw, cutting from 1,600 to 2,500 feet of lumber per day of ten hours. The two other wheels on exhibition are respectively seventeen and twenty-three inches in size, and of corresponding power. The Lever Jacks are calculated to raise with ease from six to forty tons each. The patent expired one year ago, but has been renewed, and a new patent obtained for improvements. They are now very generally used at the East.

2 Annie J. Columbet, Warm Springs: two Lamp mats; one Tidy.

3 B. F. Barker, 35 Webb street, San Francisco: Barker's Concealed Door Spring, with Door; one Model of same.

This door spring was invented by B. F. Barker, No. 36 Webb street, San Francisco; patent applied for in April, 1865. The manner in which it is applied does not tend to weaken the door or tear it from its hinges, but rather to keep it firm in its place and prevent it from sagging. When the door is opened to an angle of 45 degrees, the spring is nearly at its greatest expansion, so that on the last quarter of opening, the spring gradually loses its power upon the door, and the slightest obstruction will keep it open, if desired. The door closes without any dependence on the momentum. The cam, or lever, attached to the bracket, causes the spring to work in a parallel line, and its great length warrants it to work for years without relaxing in the least This spring may be applied to parlor or inside doors, for its working is so easy and silent that a mere child can open the door. And last, but not least, the door remains undefaced and without blemish, and the spring will work for years as perfectly as when put on. Most springs in use require great effort on account of increased strain on the last quarter of the opening of the doors; but this spring has its greatest tension at about half way open, and gradually relaxed in shutting. The spring after closing, still holds its grip, and keep the door snugly closed.

4 Dewey & Co., Patent Agents, Proprietors of the "Mining and Scientific Press," and Job Printers, 505 Clay street, San Francisco: The Daily Fair Press.

The above entry includes one new and improved Cordon Franklin Printing Press, largest size, with steam gearing apparatus; one fancy Cabinet Stand and Rack, containing 32 cases, and other Printing Materials. The Daily Fair Press is a sheet 23x32 inches in size, containing eight pages and thirty-two columns, and is circulated free to all visitors to the Fair. It will contain a full report of the Fair, and all interesting events and incidents connected with its progress.

7 A. Besson, 520 Merchant street, San Francisco: two dozen Cans, and two dozen bottles Preserved Milk.

8 C. Francois, agent, 605 Sansome street, San Francisco: one jar Cream Tartar; five bottles Cognac; manufactured by E. Vache Bros., Los Angeles.

The Cognac was distilled in April, 1865, from pure grape wines, raised at Los Angeles.

10 Leonard Dow, Sacramento: one Grain Separator.

This machine is quite peculiar in its construction, and consists in a series of sieves, placed one over the other, and arranged around a central shaft, in sets of from two to eight in number, as may be desired, and capable of cleaning from 50 to 250 bushels of grain per hour. The operation of the machine is very simple; the motion being imparted to the sieves by means of a shaft, on which there is a slide crank to regulate the length of the vibratory motion, and which may be readily adjusted. So small is the power required to drive the machine that a belt three-eighths of an inch in width will convey power sufficient to clean 7,000 pounds of wheat in an hour. The speed of the machine is regulated by cone pulleys. The wheat is placed in a hopper at the top, from which it is fed into the machine, automically, by means of a telescopic nozzle. Each machine is divided vertically into two or more compartments, called sets, into which the grain is fed equally by cross-bars dividing the flow. Each set may be comprised of a greater or less number of sieves in a set, as may be found necessary to perfect work. The mustard, chess, or other small grain, is first separated from the wheat and automically disposed of; the grain afterwards passes from sieve to sieve throughout the entire series, each sieve taking from the mass more or less of the imperfect grains, until the clean wheat is finally deposited in a proper reservoir at the bottom. There is also a convenient arrangement of raffers, by which the sieves may be simultaneously cleaned of anything choking them, by the simple pulling of a string, which operation may be performed as often as desired without stopping the machine. Handbills will soon be issued and obtainable at the machine more fully describing its working and advantages.

12 Paltenchi & Larsineur, 321 and 423 Jackson street, San Francisco: two Lions in Italian stone; four marble Vases; two marble Female Figures; one Eagle of Italian stone.

These works of art are placed at intervals around the rim of the fountain. The female figures and the eagle and the vases are quite artistic, and fine specimens of workmanship.

Charles Vallodien, San Francisco: one model of Brig Schooner.

e hull is planked in the same manner as ships of heavy onnage, every plank being separats and fastened in the usual way.

14 S. P. Taylor, agent Pioneer Paper Mill Clay street, San Francisco: sixteen bundles Wrapping Paper; three do. Butter Paper; six do. News Paper; four do. Fancy Wrapping Paper.

In addition to Mr. Taylor's show of paper, he also exhibits an entirely new material for making paper, which consists of the ordinary *malva* fibre, which grows so profusely about this vicinity. This tree, as it is sometimes called, is nothing more than a fibrous weed, which grows to a large size in this extremely productive region. A quantity of paper, the first experiment, and unbleached, is also exhibited by Mr. Taylor, from which it would appear that this material, so easily produced, might be utilized to a good purpose.

10. John Denn, 13 Moss street, San Francisco: one Wine and Cider Press, invented by Denn & Manrow, Sacramento, 1863.

This press consists of a compound of the lever and pulley, worked by a crank, with the aid of a pinion and spur gear. With the machine on exhibition, one pound of power applied to the crank will produce a pressure of 800 pounds upon the cheese or pulp. This machine is constructed double, forming two presses in one frame. An important peculiarity about this press is the oscilating falcrum, and the manner in which the lever is made to impinge upon the follower. The whole, to be fully understood, should be seen. A diploma was awarded to this machine by the last State Agricultural Fair, and by the Fair of the San Francisco Mechanics' Institute a year ago.

17 E. W. Walton, Drytown, Amador county, Cal.: one Wine and Cider Press.

This is a compound lever power mill, composed of a spur wheel and pinion; two pinions gearing into two racks attached to the follower. With this machine two men may cause a pressure of 35,000 pounds.

20 C. H. Harrison, 517 Front street, San Francisco: three Eccentric Steam Wrecking Pumps.

The value and efficiency of these powerful pumps are too well known to need any special notice. They have been repeatedly tested under the most severe and complicated trials, and for raising large volumes of water, with convenience and celerity, have never been equalled by any other pump on this coast.

21 E. Benoist, 643 Third street, San Francisco: three bottles Crude Oil; three do. Lubricating Oil; three do. Burning Oil; three do. Benzole Oil; one plan of Still, United States patent.

Plan of Still invented by A. Millock, New York. [See catalogue Minerals.]

22 J. O. Wright, 415 Pine street, San Francisco: one Patent Window Blind Hinge and Fastener.

This hinge is of a very simple construction and readily applied. With it a blind may be opened or shut, without raising the sash, by means of a crank on the inside of the window; it securely fastens the blind, whether open or shut, or holds it at any angle at which it may be left.

24 Joel Halsted, San Francisco: one Cider and Wine Mill.

This mill combines the grinder and press, and is capable of making five barrels of cider a day. For economy of room this is probably the best mill in the State. The press is capable of giving a pressure of fifteen tons, by means of a screw worked with a lever.

25 J. L. Moulthrope, Miners' Foundry, San Francisco: two Rope Coverings for Mining Hose, McAuley & Cheney's patent.

These coverings are designed to be placed on the outside of hydraulic hose, to strengthen the same. This covering, placed on a single hose, will make it as strong or stronger than a double or tripple hose, and can be made at a cost not much, if any, exceeding one-half the first cost of the single hose. The importance and advantages of such a protection, which can be furnished at so low a price, must be apparent to all persons interested in, or conversant with, hydraulic mining.

26 Mrs. E. Piper, formerly Mrs. Morris, 37 Sutter street, San Francisco: two Show Cases; one Table; one vase of Wax Flowers; one lot of Shirts, etc.

27 M. E. Traver & Brother: twelve Eureka Clothes Wringer.

These wringers may be seen in operation. There are no springs or thumb-screws about this machine to get broken or out of order, but by the use of elliptical steel springs it is rendered self-adjusting, convenient and durable; it is by the use of this clamp hinge made to fit a tub or washing machine equally well. The Examining Committee for the Mechanics' Institute Exhibition of 1864, under the head of "clothes wriagers," said: "A variety of these excellent household helps were found competing for popular favor. Though none of them are entitled to a premium [for the reason that the Institute awards nothing to articles of Eastern manufacture], we consider the Eureka, exhibited by M. E. Traver & Brother, worthy of honorable mention."

28 James Swett, San Francisco: three bottles Sonoma Red Wine; three do. White Wine.

Manufactured at Tokay Vineyard, and entered for competition; vintage 1863: by Csomorlanyi, Swett & Co.

29 James McCaffery, San Jose: one demijohn of Brandy; two do. Wine; one do. Usquebaugh.

32 E. Hawthorne, 638½ Mission street, San Francisco: one Model Life Raft.

This raft consists of a platform, resting on a series of air tubes, with a rail around the sides. It is calculated to be twenty feet long, and thirteen feet wide. The tubes to be made of galvanized iron twelve inches in diameter, and twelve feet long; sixteen of them to a raft. Such a raft can be placed on board of a ship, in sections, and in case of accident, put together in a very short time.

42 Dan'l & H. A. Winter, 620 Market street, San Francisco: one Broad Cast Seed Sower and Cultivator combined.

This machine was patented August 12th, 1862. It sows grain broadcast, and covers as it sows. It is claimed that with this machine the grain can be much more evenly spread over the field than it can be done by hand, and that by this evenness of sowing a very important increase per acre is made to the produce of the land—a most probable result. This seed planter is said to be in very general use, and exceedingly popular in the Mississippi Valley and grain-growing States.

46 N. S. Arnold, 306 Battery street, San Francisco: three Wringers; one Washing Machine; one Counter Scale; two Washing Machines

This wringing machine is known as the "Universal Clothes Wringer," and is said to be the original of the family of clothes' wringers. It is readily adjustable to a round or square vessel. The washing machine is that known as the "Little Giant." It is simple, compact, and cheap in construction, and works as a closed box. The balances work with a dial scale, and are neat and convenient, and much more ready in use than the ordinary lever balance.

47 S. W. H Ward & Son, 323 Montgomery street, San Francisco: Furnishing Goods.

This well known firm exhibits a show case filled with a very fine variety of Furnishing Goods.

49 Eureka Broom Factory, San Francisco: five Boxes Broom Brushes; one package Toy Brooms; three packages do. Wisp; two do. Brooms; five single Brooms.

50 Sheffield & Patterson, corner Battery and Jackson streets, San Francisco: two Mulay Saws; two Mill Saws; one Drag Saw; one Pit Saw; one Fellow Saw; four Cross-Cut Saws; seven Circular Saws; two Butcher Saws; six Butcher Blades; one Iron Saw; two Saw Sets.

The two mulay saws, two mill saws, and the six butcher blades or saws, are of California make. In this exhibition may be seen: 1st, a black plate of steel, as imported; 2d, a plate with the teeth cut and hammer hardened, but still black; 3d and 4th, one a mulay and the other a mill saw, both burnished and finished. There are two butcher blades or saws in frame and ready for work; there are six other blades wound up in circles and interlinked like a chain, to show the temper of the blades. The same blades will stand even a greater strain, to the extent of being brought into two or even three coils without breaking or losing their elasticity. The great difficulty heretofore encountered in making butcher blades has been to give them the right temper. Such is the nature of service required, so different from saws for wood, that if they are made a little too hard or too soft they are entirely worthless. To get them just right, and to bring them into that condition with unerring certainty has long been a mechanical desideratum. This thing, after long study and practice, Messrs. Sheffield & Patterson claim to have succeeded in accomplishing. Their method is a secret, known only to themselves. They have told us more about it than we deem proper to divulge, at least until they have obtained a suitable advantage from their discovery. Their work speaks for itself. Both members of the firm are experts at the business, and they propose to get out, at an early day, suitable machinery for going into the business of saw manufacturing on an extensive scale.

It is well known that the ancients possessed a knowledge of tempering metals, particularly sword blades, far beyond any knowledge of the present day. If we are allowed to guess, we would venture the assertion that Messrs. Sheffield & Patterson *have re-discovered that secret.* At all events, we have reason for believing that their process is something entirely different from any now employed by any other manufacturer. These gentlemen are also able to accomplish another thing which, we believe, no other mechanics have yet succeeded in doing. They will take any mill saw, circular or mulay, which has passed through a fire, sufficient to entirely destroy its temper, and restore it to its original quality; no matter how much bent and contorted it may be, provided it is not "burnt" so as to destroy the texture of the steel. The mill and mulay saws which they exhibit, of their own make, are, we believe, the first ever manufactured on the Pacific coast.

55 Mrs. I. J. Howard, corner Pine and Montgomery streets, San Francisco: three Abdominal Supporters for Ladies; one pair Improved Shoulder Braces; one Cigar Case; two Pencil Drawings; five Book Marks on Rice Paper.

57 John Daley, Second street Dry Dock, San Francisco: one Race Boat.

Designed for boat club, and to be manned by four men. Dimensions—36 feet 6 inches long; 2 feet 10½ inches wide, 13 inches deep.

58 J. H. Bibble, Santa Clara: two large Milk Cans, with planished tin.

62 Charles F. Boshew, San Francisco: twenty papers Warren's Lustrine; one specimen of Gold and Quartz from Isabella Mine; one specimen of Gold Quartz from Ninned mine; one specimen Gold Quartz from Gold Point Mine; one Shell with Lord's Prayer written upon it.

69 Abbott, Downing & Co., 618 Battery street, San Francisco: one Stage Coach.

72 Koenig Brothers, 608 Washington street, San Francisco: seven pairs Boots; one pair Shoes.

74 W. W. Walmsley, 112 Fourth street, San Francisco: five pieces Artesian Well Rope; two pieces Ventilators.

79 A. M. Stetson, 54 Third street, San Francisco: one Model Amalgamator.

This amalgamator has been in use in California some eight or ten years. It is self-operating, and is designed to be placed after the usual amalgamating arrangements. It consists of a series of boxes arranged one over another, after the manner of a case of drawers; these boxes or drawers are pierced with a number of hollow cylinders through which the pulp passes from the upper to the lower box, the cylinders being so arranged as to break joints, and cause the pulp to fall from the cylinders of one box upon the vacant spaces of the box below. The gold and amalgam is collected upon the principle of its specific gravity. These boxes can be arranged in an infinite series, governed only by the amount of fall at command, and forms the cheapest amalgamator in use, and one which requires the least amount of attention. It is applicable to placer as well as quartz mines, being used in the former in place of an under current sluice or riffle, when the finer portions of the gravel, which chiefly contains the gold, can be allowed to fall through the sluice bottom of the sluice, with but a small quantity of water.

80 A. Hunter, San Francisco: one Concentrator and Amalgamator; one Grain Separator.

Hunter's Concentrator for saving gold and amalgam, and for concentrating sulphurets, has been proven a most effective machine. It has been frequently described, and is now quite well known to the mining community; but has not been so extensively introduced as its merits would seem to warrant. It is constructed something on the principle of Bradford's separators, but is far more effectual and simple, and capable of doing many times as much work in a given time.

Hunter's Grain Separator was exhibited last year; but the present machine has been considerably improved over that heretofore used. It has been fully and thoroughly tested, to the satisfaction of numerous practical men, who have unhesitatingly accorded to it the highest meed of praise. Its construction is plain and simple; the grain is fed into the machine through a hopper, where the flow can be easily regulated, as it passes thence upon and through perforated zinc plates, the smaller grain, such as barley or wheat, passing through the openings, and the larger, such as oats, being conducted off into a proper receptacle. The full kernels of clean wheat are also separated from the broken, and each conducted automically to its proper receptacle. Any size machine can be manufactured, suited to the largest or smallest demand.

81 John Mason, San Francisco: one barrel Light Ale—one barrel Stock Ale; one barrel Porter.

82 Standard Soap Co., San Francisco: seventeen boxes Soap; two jars Soap, ten boxes Washing Powder.

The Standard Soap Company has been established in this city for the purpose of manufacturing regular and reliable qualities of washing soaps for family, laundry and toilet uses. They have introduced a very excellent and desirable article of Chemical Olive Soap, which has already gained a high position in this community. This company also manufacture a concentrated erasive washing powder, containing all the requisites for being readily converted into a fine soft soap, for immediate use. This powder is also adapted to hard and soft water.

84 A. B. Winegar, San Francisco; ten large bags Salt; ten small bags Salt; seven boxes Salt.

The table salt presented by this exhibitor, from the Union Salt Works, is white, dry and fine, and appears to be fully equal to the best imported article.

85 Rosenbaldt & Co., 123 & 125 Montgomery street, San Francisco: one show case with Real Laces and Fancy Goods.

91 A. Brown, 214 Third street, San Francisco: one Range and Fixtures and Boiler attached; one Chimney Top; one Ventilator; two Ten Gallon Milk Cans; one Three Gallon Milk Can; one Two Gallon Milk Can; one One Gallon Milk Can; one Half Gallon Milk Can; one One Quart Milk Can; one Milk Strainer; one boot with two Basins; three Scoops; one Beer Measure.

97 Bullard & Battles, 731 Harrison street, San Francisco: four Petroleum Stoves with Furniture.

This Stove (without a Radiator) is designed for all kinds of cooking and general housework. With a Radiator it will heat apartments, it burns neither wood or coal, but benzine; emits no smoke or odor; is portable, and does its work quick and well.

100 E. T. Barlow, San Francisco: two models of Cars and Couplings.

These are self-acting car couplings, with link and pin. The link is held in a parallel line by means of a series of plates within the "bumper head," at an expense of about three bits for each plate; the pin is held perpendicular by means of a light plate of iron laid lengthwise of the draw-bar. When the cars come together, the pin is let fall into its place by means of pressure exerted on the spring.

102 S. M. Sanborne: one frame Model of a Barn.

This is intended as a model barn for a large farm, and contains 920 pieces of timber, regularly framed with mortices and tenons, and held firmly in place with wooden pins. It was constructed by the exhibitor, who resides on First Avenue, near Mission Dolores, in this city.

105 W. T. Cutter, jr., San Francisco: thirteen cases of Whiskey; two Portable Cases of Liquors; two Kegs: one Frame.

108 J. & P. Medau, 1004 Dupont street, San Francisco: one case Meerschaum Pipes.

109 Morris & Co., San Francisco: one case Matches.

These matches are of San Francisco manufacture, and known as the Excelsior Match, J. S. Day & Co., sole agents.

110 Curry & Bro., 317 Battery street, San Francisco: one case Guns and Pistols.

Included in this collection may be seen an English pigeon gun, manufactured by Wm. Greener, of London, and a Henry's patent repeating rifle. Mr. Carry, the exhibitor, is the regularly appointed agent for the sale of the famous Derringer pistols.

111 J. A. Hobbart, Oakland, California: one Hutchinson's Wine and Cider Mill.

This is one of the combined mills in the Pavilion for grinding both apples and grapes. With it one man will grind from six to ten bushels an hour, without bruising a seed. The machine is a California invention, and is manufactured at the Golden State Iron Works, in this city. It is equally applicable for grinding all kinds of berries, rhubarb, etc.

113 B. H. Ramsdell, San Francisco: one piece Coal from Black Diamond Coal Mine.

This mammoth block of coal is about five feet long by four high, and over two feet in thickness. It will weigh over one ton. It is a fine sample of California coal, and well worthy the attention of those who take an interest in the development of this important branch of the mineral wealth of California.

115 G. Manning, 140 Fourth street, San Francisco: four pieces School Furniture.

116 California Borax Co., San Francisco: one case Borax.

110. Eastman & Brother, San Francisco: four pieces School Furniture.

These articles consist of movable school desks and seats, supported upon a light and tasteful iron frame-work.

120 Jarvis Jewett, San Francisco: one Palmer's Artificial Leg.

Palmer's artificial limbs are now manufactured in large numbers, to supply the losses occasioned by the casualties of the late terrible war. A large number of officers, who have lost *both* legs, have been supplied by Mr. Palmer with such perfect substitutes that the casual observer would scarcely notice but what they were walking upon their natural limbs. Mr. Jewett, the exhibitor of the one now in the Pavilion, is the sole agent for their sale in this city.

121 J. M. Aiken, Coulterville, Mariposa county, California: one case and cabinet Mineral Specimens. [See Mining and Scientific Press Catalogue of Mineral Collections, etc.

123 Tubbs & Co., San Francisco: seventeen coils Manilla Rope, entered for Premium.

Messrs. Tubbs & Co. are the pioneer rope makers on this coast. After a number of years of unremitting effort, and the outlay of a large amount of money, they have finally succeeded in placing the business on a permanent and paying basis. Their establishment, which is located upon the Potrero, is one of the most perfect and complete on the continent. They have facilities for the manufacture of the largest rope which is ever called for, and of almost any desired length. Some of the largest and longest ferry ropes ever manufactured are now in use on this coast, having been made at the rope-walk of this company.

124 Arizona Consolidated Mining Company: one bar of Lead and Silver; one Specimen Silver and Lead Ore. [See catalogue of minerals, etc.]

129 R. L. Solomon & Sons, San Francisco: one Glass Case of Upholstery Goods; four Chairs; and Outside Drapery

This collection of upholstery goods is really superb, and its collection and arrangement bespeak both judgment and taste.

133 F. Nehrnich, San Francisco: one 630 Gallon Cask.

136 Lewis Leland & Co., Occidental Hotel, San Francisco: two cases Confectionery; one case Minerals. [See catalogue of minerals.]

137 Blake & Co., 524 Montgomery street, San Francisco: one case Military Goods; one case containing Silk Hat.

This is one of the most elegant cases of goods in the Pavilion, and affords a most excellent opportunity for visitors to study into the mystery of the "stars and bars," which form such an important adjunct to the military ornamentation of an officer's wardrobe.

139 E. Randal, San Francisco: six Specimens Copper Ore from La Victoria mine, Mariposa county. [See catalogue of minerals.]

140 Zwick & Loeven, San Francisco: sixteen Boxes Extract of Coffee; forty-four bottles Mustard.

Messrs. Zwick & Loeven make a fine display in their line. They obtained a diploma from the Instituto last year for their extract of coffee.

141 J. L. Chase, San Francisco: one Washing Machine, New York manufacture.

The wash boards of this machine are constructed upon a principle quite novel. A circular board is made to revolve against a stationary one by means of a crank, whereby the clothes are rolled and pressed until free from dirt.

142 A. E. White, San Francisco: two Boot Blacking Machines.

These machines are quite a novelty, and answer a most useful purpose. Although they may not do their work quite as well as the hand, still the saving of time effected by them will soon come to be considered quite an object.

143 Meyer & Jonasson, 10 Montgomery street, San Francisco: nine Cloaks; two pieces cloth; one piece velvet.

Meyer & Jonasson exhibit a magnificent piece of Lyons' premium velvet, 2¼ yards wide, manufactured expressly for them. All the cloaks of this house are made under their personal supervision.

145 F. B. Lamb & Sons, Agents, 115 Jessie street, San Francisco: one Edson's Patent Washing Machine.

This machine is very simple, and consists of a tub and cover. The machinery, which is worked by means of a lever, is all connected with the cover, and gives a rotary motion to the clothes. It is very easily worked, and not liable to get out of order.

146 John Bohn, 1218 Dupont street, San Francisco: one Stove and Fixtures; six Articles Tin Ware.

147 J. C. Mayer & Sons, 5 Montgomery street, San Francisco: one lot of Furs, Robes, etc.

These robes and furs are all made in San Francisco, and special attention is called to the superior style of workmanship. This firm has had thirty years of experience in the business, and during that time has received many diplomas for superiority of work; several of which are exhibited.

149 Daniel Norcross, San Francisco: two cases Regalia and Military Goods.

We have here a very fine display of gold and silver embroidery on regalia and military goods.

150 M. Keller, 609 Front street, San Francisco: one stand with thirty one bottles of Wine and Bitters.

154 Misgill & Cooper, San Francisco: one case Horse Shoes, California manufacture.

155 F. F. Misgill, San Francisco: one pair Horse Shoe Pincers.

158 B. D. Wilson & Sons, San Francisco: sixty-two bottles Wines, from Los Angeles.

These wines and brandies are from the vineyards of D. B. Wilson, and are samples of vintages of the following years: 1858, 1859, 1860, 1861, 1862, 1863 and 1864.

159 P. Nolan, San Francisco: two pair Boots, and Glass Case.

160 Dr. H. A. Benton, 109 Montgomery street, San Francisco: one Electro Galvanic Battery, Dr. Kidder's patent.

163 C. A. Plummer & Co., San Francisco: three bottles of Salt.

This salt is manufactured in vats by the Crystal Salt Company, the only manufactory of the kind in California.

164 Johnston & Reay, San Francisco: one Range; one Stove; one Double-Action Force Pump; one Garden Engine; one Patent Ventilator

The ventilator is of the centrifugal pattern, invented and made by the exhibitors, who have applied for the patent. It is warranted to cure smoky chimneys in all cases. A premium was awarded for this chimney-top last year, after a practical test with two others.

166 Mrs. C. M. Chapman, 687 Market street, San Francisco: one case of Hair and Hair Coloring.

This article is claimed to be of a purely vegetable composition, and warranted not to injure, but to promote the growth and strength of the hair.

167 Wm. M. Butler & Geo. Bennett, 633 Clay street, San Francisco: one Dental Chair; one large Marble Vase; one piece Statuary.

This is one of the novelties as well as one of the most attractive objects of the exhibition. Numerous contrivances have been devised for preparing a dental chair in which the patient can be readily placed in various positions at once comfortable for himself and convenient for the operator. The ball and socket joint has heretofore been generally relied upon to procure the movements necessary to be accomplished in obtaining the end desired. The inventor of this chair, however, has adopted an entirely new complication of devices, which places the patient much more fully under the control of the operator, affording both a wider range of movement and requiring the outlay of less power in obtaining the same, than any other dental chair hitherto devised. The body of the chair rests upon an iron pedestal, which is shown in connection with the completed chair, and which by the operation of levers, cog-wheels and crank, all placed within the convenient reach of the operator, can be made to incline the chair backwards and sideways, to and from the operator to an angle of forty-five degrees. The foot-board and head-rest and seat of the chair are each arranged so that they can be adjusted to suit the stature and convenience of the patient, while the whole chair is arranged with an air and finish for comfort which almost takes away the idea of pain, in connection with its occupancy. An elegant and conveniently placed spittoon is attached to the chair, with which is connected an amalgamator for saving any pieces of gold which may be expectorated by the patient while undergoing the various operations connected with tooth-pulling or filling. The chairs on exhibition are of California make as well as invention, and present as elegant specimens of workmanship, whether in the wood work, or upholstery, as are often met with anywhere. We understand that a number of orders for their manufacture have already been received, and that measures are being taken to introduce them into Europe.

169 R. F. Rocchiccioli, 522 California street, San Francisco: four Coal Oil Lamps; two Candelabras; three Statues; ten Brackets; two Vases; one Pitcher; one set Grate Bars; one Bic Plate.

All the articles in this collection are made in San Francisco. Special attention is called to the samples of electrotyping. The lamps are gold and silver plated, and in style and finish challenge competition.

171 United Annaheim Wine Association, 321 Montgomery street, San Francisco: four dozen Wines and Brandies.

172 C. Kleinclaus & Fauss, Willows' Brewery, San Francisco: one barrel Ale.

174 H. M. Bernard, Sacramento City: one Track Sulky, weight 70 lbs.

175 Dannenbaum, Katzenstein & Co., 20 Montgomery street, San Francisco: one case Fancy Articles.

This case contains a very fine display of laces, nets, combs and pins for the hair, also samples of very fine embroidery.

178 W. S. Thompson, San Francisco: one Rockaway.

This carriage shows fine workmanship, combining neatness, lightness and strength.

180 Teuber & Hoffman, 431 Kearny street, San Francisco: one Show Case.

182 John Crocker, 744 Howard street, San Francisco: one Washing Machine; one George's Patent Wringer.

George's Patent Challenge Machine is constructed upon an entirely different plan from any other yet offered. By it the dirty parts of garments can be held in such a manner that they receive as much extra washing as necessary, without rubbing with the hands; it will wash either a single bed spread or handkerchief, and by means of the "regulator" may be made to wash the finest muslin without injury to the cloth.

185 E. F. Barlow, San Francisco: one Model Car Switch.

This, unlike ordinary switches, raises the track and lays it in position, instead of sliding it.

186 Mrs. Matilda Clements, San Francisco: one case Children's Fancy Clothing.

187 W. F. Burke, corner Pine and Montgomery streets San Francisco: one show case Ladies' Gaiters.

191 W. W. Hanscom, San Francisco: two Hanscom's Quartz Crushers, different sizes.

This quartz crusher, a model size of which is exhibited, has proven itself a most efficient machine for crushing rock. It combines strength with compactness, and offers the greatest facility for adjustment so as to reduce the ore or rock to the desired degree of fineness. It is especially adapted for reducing the low class of copper ores for concentrating, for breaking rock for road-making, and for reducing quartz to the degree of fineness required for subsequent trituration in pans. The advantages which it promises over stamps, grow out of the fact that it crushes the quartz dry, which may be subsequently ground to any degree of fineness in pans.

193 Brown & Wells, San Francisco: one Newell Post and specimen of Rail and Ballisters.

This finely carved and panel work post is made of black walnut, and is intended to support stair rails and lamps, or gas fixtures for lighting the halls or entries. The rail and ballisters are also made of black walnut.

195 Kirby & Co., Santa Cruz: two rolls Sole Leather; nine Sides assorted Leather.

This leather was made in Santa Cruz, and will compare favorably with any ever imported.

196 E. S. King, San Francisco: one Turnip.

This turnip was raised in a garden on McAllister street in this city. It measures thirty inches in circumference, and weighs six and a half pounds.

197 Mrs. I. C. Baldwin: one case Hair Work, made in Marysville

198 Dr. J. Strenzel, Alhambra Valley, Cal.: one lot of Wines.

202 W. R. Frink, San Francisco: one Improved Machine for manufacturing Soda, or proper Machinery.

203 Mrs. C. Cook, 645 Clay street, San Francisco: two cases Hair Jewelry; two frames Hair Work; one case Shell Work.

206 J. W. Van Zandt, San Francisco: one lot Perfumery.

208 G. H. Hitchcock & Co., San Francisco: one case Blank Books; one model Bottle Ink.

This is really a splendid collection of blank books for counting-room and bank use. They were manufactured in this city to the order of the exhibitors, and furnish as creditable a display in this branch of manufacture, for serviceable use, as can be produced in any city in the Union.

209 H. Wunnenberg & Co., New York Brewery, San Francisco: two and a half barrels Ale.

211 Dr. J. P. Van Iserburg, San Francisco: three bottles Tape Worms; three bottles Heads of Tape Worms; one bottle Nondescript; nine bottles Worm Syrup.

213 V. M. Foucault, Washington Territory: one case Geological specimens. [See cat. minerals.]

214 H. M. McCormick, Tulare county: one lot Silver Ore, from Kearsarge district. [See cat. minerals.]

216 J. H. Cbintz, San Francisco: one Artificial Leg in case.

This leg is made of light wood, covered with drum skin and enameled. It has as far as practicable all the movements of a natural limb, and has met, both here and on this coast, with marked success. For strength and durability it has no superior.

219 Pacific Straw Works, 603 Market street: one case Straw Hats and Bonnets; one Machine, Osborn's patent, for making Hat and Bonnet Frames.

The bonnets and hats here exhibited are all made in San Francisco, under Osborn's patent, for making seamless hat frames. The Pacific Straw Works have the sole right to manufacture these frames on the Pacific coast. The machine here exhibited may be seen in operation every evening. It is used for making the seamless hat frames. The models or dies used are manufactured by the exhibitors. The average work done by two of these machines is one frame per minute.

220 C. A. Plummer & Co., San Francisco: one jar Liverpool coarse Salt.

222 Rubber Clothing Co., San Francisco: one case Rubber fancy Articles and Jewelry.

Joseph Fraser, 642 Sacramento street, agent for the "Rubber Clothing Co." of New York, exhibits a very fine assortment of India rubber goods, embracing clothing, blankets and piece goods, together with a large and elegant assortment of fancy articles for almost every variety of domestic and general use. The great variety of uses to which this useful product of India rubber can be applied is quite fully illustrated by an examination of the articles of fancy and utility which are tastefully arranged in the show case connected with this exhibit.

224 John Martell, San Francisco: one case Silver Plated Goods, Couch and Carriage Trimmings.

226 P. Mulcahey, San Francisco: two boxes Cal. Soap.

227 Geo. C. Paine, San Francisco: one model Fence.

228 John Reed, San Francisco: one model Life Boat.

[*Continued on 4th Page.*]

An Invaluable Relic.—Mr. Scott Tidball, the artist, has in his possession, and will place on exhibition at the Fair, in a day or two, a camp pocket-knife, once owned by Gen. Washington. It is an ivory shaft, in the shape of a cannon, about five inches in length and three-fourths of an inch diameter at the breach. It is bound by three silver bands. The breach section unscrews and reveals two interior tubes or barrels, containing knife blades. These are alternately screwed into a small orifice at the breach end, when used. The small end contains the die or impress of a seal, and the center section a perpetual almanac. The knife was presented to Col. Wm. Thornton, on the eve of one of Washington's great battles, (Monmouth, Mr. Tidball thinks) in which the Father of his Country was afraid the issues might prove doubtful. There can be no question of the genuineness of the article, as Mr. T. has credentials in his possession to substantiate its authenticity.

North American Life Insurance Co.—A man's life is "of few days and full of trouble." This is the scriptural admonition, upon which we might without violence presume the insurance company above mentioned has been founded. Those who are engaged in hazardous pursuits, and possess only moderate means with a family depending upon them for support, cannot be too sensitively alive to the importance of taking out a policy of insurance. Should they lose their lives, something remains for those who were objects of endearment to lean upon. To insure is a good thing, an excellent thing, and the North American Company is a responsible and liberal institution, as we have already intimated, from which to receive a policy.

Japanese Collection.—Mr. E. M. Van Reed, recently from Japan, where he resided six years, and acquired a knowledge of the language of that semi-barbarous race of varlets, has introduced into the Pavilion of the Fair a collection of Japanese articles, belonging to his own private cabinet, which he secured only after great trouble and considerable expense. Our limited space will not at this time admit of a catalogue notice of the many curious articles composing his museum; but we would call the especial attention of naturalists to a book containing the Japanese zoology in art, and entomology in detail. The exact titude of the likenesses and the perfectness of the coloring, are pronounced by competent judges to be inimitable, even in this country, where art boasts its champions and masters. He exhibits a tortoise, cut from crystal, also a lot of swords, finer in the texture of their fabrication than the celebrated Damascus blades, and supposed to have been the product of an art now lost to the Japanese themselves; a thirteen-inch explosive shell, taken from one of the forts at Shimonoseki; two suits of armor, composed of iron and bone; a closely knit impervious chain coat of mail; and a large number of other interesting articles of various descriptions, amusing and otherwise, in the study of which the antiquary will find a world of delight. The owner of this cabinet holds it priceless in value, and wishes it to be understood that none of its curiosities are for sale. It has been introduced merely as an addition of attraction to the Fair.

The Art Gallery.—In the photographic department of the Art Gallery the display this year is very fine, and the local photographs pretty generally represented. But there is a falling off in the number of oil paintings. Only three or four artists have entered the field of competition. Why this is so, we can not say. It is much to be regretted, however; for no feature of the Exhibition, aside from late and useful inventions, is more attractive to visitors.

Mr. Speaker Colfax does not take his departure for the East until the steamer of the 3d of September. His speech to the ladies of the New England Kitchen will probably be delivered to-morrow night, although there is no certainty about it.

Lively Engagement.—The New England Kitchen, at the Pavilion, is having a lively run, to the credit of the fair managers and the benefit of the Sailors' Home fund. The receipts up to last night amounted to over $1,700.

Programme of the Kitchen.—The quilting frolic will last every evening in the New England Kitchen, until the quilt is completed, with an interlude each evening of dancing. When there is any change in the order it will be duly announced.

A Huge Blast.—Recently, in the claims of American Company, on Manzanita Hill, near North San Juan, a charge was put in consisting of three hundred and twenty-three kegs of powder. Its effect was immense, blowing down dirt enough to keep the company washing for three weeks. During this time they made two runs, cleaning up from the first run $10,000, and from the second $8,500.

Two Miners Killed by Foul Air.—The Copperopolis *Courier* says that John Mitchell and Jeff Cranmer were killed by foul air, in the Samson Tunnel, at Dry Creek, near Vallecito, on Wednesday last; and several men who went to the rescue narrowly escaped the same fate.

Several discoveries of petroleum had been made in New South Wales, and the subject was attracting the attention of Parliament and the manufacturers. Experiments were making at Sydney with a view to establishing a refinery.

Another Mammoth Yield.—Mons. Ripert, of the Eureka Company, Grass Valley, cleaned up on Monday, 2,000 ounces of amalgam, the result of a few days' crushing. The batteries of the mill were untouched.

Our Circulation.—The Mining and Scientific Press has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Descriptive Catalogue

—OF THE—

INDUSTRIAL EXHIBITION

Of the Mechanics' Institute, 1865.

CONTINUED.

228 John Reed, San Francisco: one model Life Boat.

This boat has very fine lines and bearings, with extensive air-chamber capacity, and is provided with valves so arranged that the buoyancy and motion will relieve the boat of any water which may be shipped. Boats were constructed upon this plan in Boston, by the exhibitors, and adopted by the Massachusetts Humane Society. This boat was upon exhibition last year, and awarded a premium by the committee on boats, ships and models.

229 S. F. Class Works: one Stand Fancy Articles in Class, Cal. Manufacture.

The exhibition of this company consists altogether of white flint glass. This is the second glass company established on the Pacific Coast, and is an individual enterprise. The wares exhibited are made from California materials exclusively. Even the clay from which the pots are constructed at this manufactory is from near the banks of the American river at Folsom. This clay has been thoroughly tested and pronounced fully equal to the best imported article. It has now been shown, by actual experiment, that California can produce, in its utmost perfection, every article needed for carrying on this already important and rapidly growing industrial enterprise. The quality of the glass exhibited is equal to the best imported. The lamp chimneys are pronounced superior to those brought from the East, which are chiefly manufactured at Brooklyn, New York. This may be set down as another important evidence of the progress that is constantly being made in this city in the development of the wonderful resources of California.

230 E. Mandeville, San Francisco: one Bellows, Cal. make.

These bellows are thoroughly made, of good material, and intended for use of blacksmiths.

232 A. S. Hallidie & Co., San Francisco: sample Cal. made Wire, Wire Rope and Cord.

This exhibition consists of fine drawn wire, and wire rope of all sizes, from a little twisted thread of fine wire not more than a twentieth of an inch in diameter, up to a cable of strength and size sufficient to hold the largest ship of war. These ropes are made round, or flat, according to the uses to which they are to be applied. The flat rope, is employed for windlasses used in mining shafts. All the articles in this exhibition are of California manufacture, and were produced at the works of Messrs. Hallidie & Co., located in the northern portion of this city. Wire rope possesses much advantage over hemp rope for various purposes, especially such as mining and bridge building. The same strength of rope made of wire represents only about 65 per cent. in weight of that made from hemp; and in mining uses, in the presence of water, this percentage of difference is greatly increased by a great absorption of water by the hemp rope, from which that made from wire is entirely free. For these reasons, wire rope is being quite extensively introduced into mining, and the establishment for its manufacture is one of great importance to the entire Pacific Coast.

233 Mr. Layne, Placer County: specimens Silver Ore. [See cat. Minerals.]

234 John B. Owens, 10 Third street: one case assorted Coal Oil Lamps; samples of Coal Oil Cook Stoves

The stoves are known as "Fish & Billings' Patent," and are designed for heating and nursery purposes.

235 J. A. Hobart, Oakland: one Mazana Plant of Italy, very rare.

236 J. Joseph & Co., Pine and Montgomery streets: samples of Boy's clothing, made out of Mission and Pioneer woolen goods.

These clothes are made in San Francisco, from cloth manufactured by the Mission and Pioneer Woolen Factory, from California grown wool.

237 J. Sajous, San Francisco: lot Half and Half in bottles.

239 Dell. Cranner & Co., Front street, San Francisco: one Coal Oil Cooking Stove; one piece of Paraffine; Six samples of Coal Oil; two samples fine Lubricating Oil

The stoves are called the "Portable Coal Oil Cooking Stoves." They are of a very simple arrangement, and as easily used as a common kerosene lamp; by the use of two or more burners sufficient heat is obtained for most family cooking; they do not heat a room in which they are used, and the cost per hour for two hours is only one cent. This firm have also cylinder stoves, expressly for heating, which, with a little alteration, may be used for cooking, taking the same furniture as the cooking stoves.

240 J. D. Arthur & Son, San Francisco: one New York Reaper and Mower combined; eight assorted Ploughs.

It is said that there are 1,000 of these machines in use on this coast, which, if the statement is correct, affords the best evidence of the value and efficiency of this useful machine. They are manufactured of a size to cut a swath six, six and a half and seven feet wide. The mode of construction and manner of working of these machines is quite familiar to all acquainted with agricultural machinery.

244 F. C. M. Fena, San Francisco: two cases Embroidery Stamps.

245 J. S. Fogg, Oakland: one Self Emptying Well Windlass.

This is a very simple and compact arrangement, by which the bucket, when it is raised to the proper position, comes automically in contact with a spout, which opens a valve in the bottom of the bucket, emptics the water from the same, and conducts it to any convenient receptacle upon the outside of the curb, thus obviating all necessity of raising the bucket by hand to pour it out. In drawing a bucket of water by this arrangement, and emptying the same into the vessel on the outside of the curb, there is no necessity of taking either hand off the crank handle. The entire apparatus is simple and cheap, costing but $25. It is a new invention, for which a patent has been applied for. It is made to order in Oakland, by the inventor.

246 Miss Maggie Coughlin, San Francisco: one tub Soft Soap, home made, from table scraps.

An important lesson of economy is taught in the exhibition of this homely but useful product of household industry. Many a dollar may be saved in this way, with a little care and attention, which would otherwise be thrown to waste. The contributor, it will be noticed, is yet a Miss; she will be pretty sure to make a prudent and economical housewife, one of these days.

247 J. B. Johnson, San Francisco: one Colburn's Patent Churn.

A neat and convenient machine for churning, which was examined and highly approved of by many of the best Western butter makers, at the last Ohio State Agricultural Fair, where it was successfully tested in competition with five other and different churns.

248 L. Hollaway, Gilroy, Alameda Co.: one Gang Plow.

This plow is a California invention, and was patented by the exhibitor March 21, 1865. The plows may be arranged in gangs of two or more, and are carried by an adjustable frame work behind the driver's seat, and under whose complete control they are placed by a convenient lever arrangement, which will carry them to any desired depth, or raise them entirely from the ground. The lever is worked like an ordinary wagon footbreak.

249 J. C. Couldio, San Francisco: four specimens Argentifernus Galena. [See cat. minerals.]

251 John Mallon & Co., San Francisco: one lot Ground and Cut Glass.

The specimens exhibited are highly creditable, showing ornamental gronps of flowers and various other devices, plain and colored, and all well executed and exceedingly neat and appropriate. They are fine exemplifications of the skill of the artist.

253 L. P. Collins, San Francisco: seven specimens Copper Ore, from Taylorsville, Plumas Co. [See cat. minerals.]

254 H. Schuman, San Francisco: one case Meerchaum Pipes and Fancy Articles; two cases Canes; one lot Tobacco and Cigars; one lot Canes.

256 Standard Soap Co., San Francisco: one box Medals.

257 William Saunders, San Francisco, sole agent for the Pacific coast: Patent "Pulley Evener," for two horse draft.

The pulley-evener does away with whiffle-trees entirely, for two horse draft, by the use of a chain or strap pressing half round an iron wheel on the centre pin for the inside tugs; it is lighter, very much stronger and easier on the horses, as by its use the collar is not kept constantly pressed to the shoulders, and the air keeps them from sweating and chafing; it is cheaper and more durable; has been tested in Michigan, giving entire satisfaction. For lead bars the pulley is attached in front of the evener and works equally as well.

260 J. R. Jewett, Petaluma: two Cheeses.

[To be Continued]

A Relic Preserved.—Capt. Moses Tucker of the whaling ship Sophia Thornton, relates that Wardell, the pirate commander of the corsair Shenandoah, took particular pleasure, in connection with his crew, to exhibit a spirit of vandalism whenever he boarded a Yankee prize. It is known to sea-faring men, that our whaling vessels are generally staunch craft, fitted up in fine style; although statements to the contrary have recently been made by persons ignorant of the facts. After bringing the ship of Capt. Tucker to, and boarding her with a party of his outlaws, the cabin was invaded, and its furniture composed of costly articles of ornament and utility, hacked, hewed and demolished, with their sabres, as had been their custom previous to applying the torch. Every article of value was defaced or destroyed, excepting only an engraving of Gen. Washington, which, owing to some pious or patriotic impulse, was spared. Observing their veneration for this relic, alike dear to all Americans, Capt. Tucker took it down and carried it under his arm to the boat which was in waiting to convey him from his own ship to the Milo. The pirates saw that he cherished it, but did not attempt to molest him in its possession. He carried it on board the Milo, brought it to this city and deposited it with his brother, Capt. Henry Tucker, by whom it has been placed on exhibition in the Pavilion of the Fair. The name of Washington is held sacred even among the Barolongs of South Africa; and it is something of a compliment to the scoundrel Wardell, that he is endowed at least with as much, if no more reverence than they would have entertained towards the same likeness.

BY AUTHORITY OF THE STATE OF CALIFORNIA

Having fully complied with the law by a deposit of $525,000 bonds of the State of California and the United State

BIGELOW & BROTHER,

GENERAL INSURANCE AGENTS,

FIRE, MARINE AND LIFE INSURANCE,

Capital Represented.....$15,000,000.

California Deposit..... $525,000

Office Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.

LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets..... $1,500,000
HOME INSURANCE COMPANY, of New York, Assets..... 3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets..... 2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets..... 1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets..... 600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets..... 600,000
CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.

Policies issued on Freights, Cargoes, and Treasure, from and to All Parts of the World. Voyage War Risks taken on Hulls.

Fire Insurance Policies issued on all kinds of Insurable Property in the Country or City. Losses Payable in Gold Coin of the United States.

We represent the Oldest and Best Companies in the United States, and offer as favorable terms as any agency on this Coast.

Losses paid immediately on adjustment.

BIGELOW & BROTHER,
General Agents.

17-6m

New Volume
—OF THE—
Mining and Scientific Press
Issued every Saturday. Each number contains 16 pages and 64 columns (size of Harper's Weekly).

PUBLISHED BY
DEWEY & CO.,
Patent Agents, Publishers and Job Printers,
505 Clay Street, San Francisco.

THE ELEVENTH VOLUME

Of the Mining and Scientific Press commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this journal may be anticipated by its numerous and rapidly increasing readers.

We shall continue to devote a large space in our columns to the various and best methods of treating ores and saving gold and other precious metals in every form, furnishing valuable hints to millmen, prospectors, ollworkers and miners generally, not to be found in any other publication.

New machinery, latest inventions and discoveries, and all matters pertaining to the mechanical, manufacturing and industrial resources of the Pacific States, will receive careful attention.

Stock market reports will be published as received from the official records. Our carefully compiled "Mining Shareholders' Directory" will prove a faithful monitor to parties holding stock, and a desirable record for reference to brokers.

Friends pleased with our efforts in the publication of the Press can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and News-dealers, acting as our agents, will receive liberal commissions.

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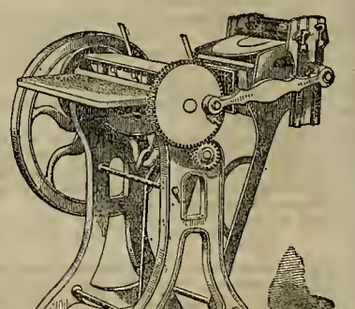
DEWEY & CO., Publishers.

C. W. M. SMITH.....W. B. EWER .....A. T. DEWEY.

STILL PROGRESSING!

THE OFFICE OF THE
Mining and Scientific Press
was removed, April 8, to the old printing stand lately known as Waters Bros. & Co.'s, southwest corner of Clay and Sansome streets (one block south of our former location), where we have consolidated with a



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LAW BRIEFS,
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MINING BLANKS,
BOOKS,
PAMPHLETS,
CARDS,
CIRCULARS,
MINING REPORTS.

Orders from the Interior will receive prompt attention. We shall take care to secure correctness in all work executed for parties out of town. Small packages will be forwarded by mail at our expense.

City customers, or persons visiting San Francisco, are invited to call and examine our specimens, when they will be politely informed of our prices by the Proprietors.

E. D. WATERS, JR., C. W. M. SMITH, } Proprietors. { W. B. EWER; A. T. DEWEY,

Economy in Advertising.—The Mining and Scientific Press is the best and most economical mining advertising medium in this city. Our terms are less than one half the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The Press contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, August 12.

48 shs Ophir at 370 per foot.
144 shs Ophir at 375 per foot.
48 shs Ophir at 380 per foot.
48 shs Potosi at 475 per foot.
10 shs Potosi at 474 per foot.
16 shs Potosi at 473 per foot, s 3.
20 shs Potosi at 475 per foot, b 5.
12 shs Crown Point at 1 80 per foot.
100 shs Crown Point at 1200 per foot.
12 shs Crown Point at 1190 per foot.
4 shs Crown Point at 1200 per foot, b 3.
60 shs Daney at 42½ per foot.
9 shs Belcher at 925 per foot.
3 shs Belcher at 925 per foot, s 10.
2 shs Yellow Jacket at 1425 per foot.
2 shs Yellow Jacket at 1430 per foot.
2 shs Yellow Jacket at 1380 per foot, s 30.
20 shs Uncle Sam at 230 per foot.
6 shs Uncle Sam at 227½ per foot.
3 shs Uncle Sam at 225 per foot.
2 shs Uncle Sam at 220 per foot, b 30.
5 shs Uncle Sam at 222½ per foot.
5 shs Uncle Sam at 220 per foot, b 3.
20 shs Uncle Sam at 220 per foot, s 3.
9 shs Uncle Sam at 221 per foot.
2 shs Uncle Sam at 218 per foot.
8 shs Uncle Sam at 225 per foot, b 10.
2 shs Hale & Norcross at 520 per foot.
20 shs Imperial at 229 per share.
33 shs Imperial at 230 per share.
5 shs Imperial at 230 per share, s 3.
33 shs Imperial at 232½ per share.
14 shs Imperial at 223 per share.
5 shs Imperial at 223 per foot, s 3.
10 shs Imperial at 232 per share.
22 shs Sierra Nevada at 10 per share.
40 shs Sierra Nevada at 19¼ per share.
110 shs Burning Moscow at 24 per share.
2 shs Burning Moscow at 25 per share.
20 shs Bullion at 150 per share.
5 shs Bullion at 155 per share.
10 shs Bullion at 160 per share, b 3.
25 shs Bullion at 160 per share.
20 shs N. American, Ex Sam, at 31 per sh.
10 shs Lady Bryan at 5¼ per share.
5 shs Lady Bryan at 5 per share.
10 shs Pacific Insurance at 155 per cent.
$10,000 Legal Tender Notes at 74½ per cent.

No afternoon session.

Amount of sales.....$115,630 00

Monday, August 14.

shs Uncle Sam at 235 per foot.
3 shs Uncle Sam at 235 per foot.
2 shs Uncle Sam at 230 per foot, r w.
10 shs Uncle Sam at 230 per foot, b 10.
5 shs Uncle Sam at 225 per foot, s 3.
5 shs Uncle Sam at 226 per foot, b 3.
5 shs Uncle Sam at 226 per foot.
5 shs Uncle Sam at 227½ per foot, b 3.
10 shs Uncle Sam at 227¼ per foot.
14 shs Uncle Sam at 228 per foot.
2 shs Potosi at 475 per foot.
4 shs Potosi at 470 per foot.
2 shs Potosi at 471 per foot.
1 sh Yellow Jacket at 1450 per foot.
1 sh Yellow Jacket at 1425 per foot.
1 sh Yellow Jacket at 1410 per foot.
1 sh Yellow Jacket at 1400 per foot, r w.
12 shs Ophir at 382½ per foot.
9 shs Ophir at 385 per foot.
24 shs Ophir at 390 per foot.
60 shs Ophir at 400 per fool.
20 shs Chollar at 510 per foot.
60 shs Daney at 55 per foot.
40 shs Daney at 52¾ per foot, s 3.
3 shs Belcher at 930 per foot, s 30.
8 shs Belcher at 900 per foot, s 30.
3 shs Belcher at 925 per foot.
4 shs Crown Potnt at 1250 per foot.
12 shs Crown Point at 1260 per foot.
9 shs Overman at 225 per share.
2 shs Overman at 224 per foot.
10 shs Imperial at 235 per sharo.
30 shs Imperial at 236 per share.
2 shs Imperial at 236½ per sharo.
9 shs Imperial at 237 per share.
18 shs Imperial at 238 per share.
5 shs Imperial at 237½ per share, b 10.
42 shs Imperial at 237½ per share.
8 shs Burning Moscow at 25 per share.
5 shs Bullion at 160 per sharo.
10 shs Bullion at 165 per share.
30 shs Lady Bryan at 5¼ per share.
10 shs San Francisco Gas Co. at 92½ per ct.
100 shs Spring Valley W Co at 51¾ p c, b 15.
100 shs Spring Valley W Co at 51¾ p ct, s 30
10 shs Spring Valley W Co at 51¾ per cent.

AFTERNOON SESSION.

1 sh Savage at 1260 per foot, s 8.
2 shs Savage at 1300 per foot.
4 shs Crown Point at 1260 per foot.
20 shs Crown Point at 1265 per foot.
8 shs Crown Point at 1265 per foot, s 10.
4 shs Crown Point at 1265 per foot, s 3.
8 shs Crown Point at 1270 per foot.
2 shs Yellow Jacket at 1375 per foot.
2 shs Yellow Jacket at 1380 per foot.
20 shs Chollar at 510 per foot, b 3.
20 shs Daney at 55 per foot.
5 shs Uncle Sam at 218 per foot, s 15.
15 shs Uncle Sam at 205 per foot, s 30.
0 shs Uncle Sam at 220 per foot.
15 shs Uncle Sam at 200 per foot, s 30.
5 shs Uncle Sam at 215 per foot.
5 shs Uncle Sam at 212½ per share.
5 shs Uncle Sam at 210 per foot.
10 shs Sierra Nevada at 17½ per share.
17 shs Imperial at 239 per share.
8 shs Imperial at 240 per share, b 3.
5 shs Imperial at 240 per share, b 10.
5 shs Imperial at 239 per share, b 5.
10 shs Governor Nyc at 9 per sharo.
10 shs Wide West at 6 per share.
10 shs N. American, Ex Sam, at 30 per sh.
50 shs N. American, Ex Sam, at 29 per sh.
10 shs N. American, Ex Sam, at 28½ per sh
20 shs N. American, Ex Sam, at 28 per sh.
5 shs Bullion at 160 per share.
15 shs Bullion at 165 per share.
10 shs Bullion at 157 per share.
10 shs Burning Moscow at 34 per share.
50 shs Spring Valley W W at 51¾ p ct, s 10.
10 shs Spring Valley Water Co at 51¾ p ct
10 shs Spring Valley W W at 51¾ per cent.

Amount of sales.....$153,210 00

Tuesday, August 15.

20 shs Uncle Sam at 203 per foot, r w.
8 shs Uncle Sam at 190 per foot.
15 shs Uncle Sam at 192½ per foot.
5 shs Uncle Sam at 192½ per foot, r w.
8 shs Uncle Sam at 195 per foot.
2 shs Uncle Sam at 198 per foot
1 sh Uncle Sam at 199 per foot.
10 shs Uncle Sam at 597½ per foot.
5 shs Uncle Sam at 197½ per foot, r w.
15 shs Uncle Sam at 190 per foot, s 30.
5 shs Uncle Sam at 195 per foot.
5 shs Uncle Sam at 195 per foot, r w.
5 shs Uncle Sam at 196 per foot, b 3.
8 shs Potosi at 472½ per foot.
18 shs Potosi at 470 per foot.
15 shs Potosi at 470 per foot, b 3.
2 shs Potosi at 469 per foot.
8 shs Potosi at 468 per toot.
4 shs Potosi at 498 per foot, s 3.
8 shs Minerva, G. H., at 145 per foot.
2 shs Yellow Jacket at 1300 per foot.
2 shsYellow Jacket at 1380 per foot.
4 shs Yellow Jacket at 1375 per foot.
100 shs Daney at 50 per share, s 3.
60 shs Daney at 54 per foot.
60 shs Daney at 54 per foot, s 3.
36 shs Crown Point at 1290 per foot.
8 sh Crown Point at 1290 per foot, s 3.
20 shs Crown Point at 1295 per foot.
4 shs Crown Point at 1280 per foot, s 10.
12 shs Ophir at 390 per foot, r w.
3 shs Belcher at 875 per foot.
10 shs Caledonia Tunnel at 9 per sharo.
8 shs Bullion at 160 per share.
5 shs Bullion at 160 per share, b 3.
40 shs Sierra Nevada at 18½ per share.
10 shs Sierra Nevada at 18 per share.
10 shs Sierra Nevada at 19 per share.
85 shs Burning Moscow at 34½ per sh.
55 shs Imperial at 239 per share.
15 shs Imperial at 239 per share, b 3.
10 shs Imperial at 240 per share, b 10.
3 shs Confidence at 130 per share.
10 shs Charles Cany at 4¼ per share.
50 shs Spring Valley W W, at 51¼ per cent

AFTERNOON SESSION.

1 sh Savage at 1300 per foot.
12 shs Uncle Sam at 205 per foot.
10 shs Imperial at 202½ per share.
16 shs Uncle Sam at 190 per foot, s 30.
7 shs Uncle Sam at 200 per foot.
5 shs Uncle Sam at 200 per foot, s 3.
2 shs Uncle Sam at 297½ per foot.
4 shs Uncle Sam at 192 per foot, s 30.
4 shs Crown Point at 1300 per foot.
4 shs Crown Point at 1310 per foot.
1 sh Yellow Jacket at 1350 per foot.
32 shs Chollar at 500 per foot.
4 shs Daney at 55 per foot.
4 shs Bullion at 160 per share.
40 shs Burning Moscow at 34½ per share.
25 shs Imperial at 240 per share.
3 shs Imperial at 240 per share.
5 sh Imperial at 229 per share.
14 shs Exchequer at 48 per share.
35 shs Exchequer at 47 per share.
2½ shs Exchequer, at 47 per share, s 3.
2 shs Confidence at 130 per share.
10 shs Confidence at 125 per share.
10 shs Sierra Nevada at 19 per share.
10 shs Governor Nye at 8 per share.
100 shs Spring Valley W W at 51¾ per cent.

Amount of sales.....$151,164 00

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, August 19th, 1865.

The money market is characterized by great ease and abundance, and capital is readily accessible to borrowers in good credit, at 1¼@1½ ₱ cent. per month, the latter being the nominal bank rate. Some important loans, extending through a period of several years, were made this week upon first-class city property at 1 ₱ cent. per month. Great difficulty is now experienced in loaning funds to be employed for regular business purposes, and upon real estate and other collateral usually preferred by capitalists, and we are likely to witness an easy money market and low rates of interest for some time to come.

Receipts of treasure from the interior mining districts are lighter than usual, this month, and since Saturday last amounted to less than $700,000. The Branch Mint, thus far during the current month, has taken some $1,300,000 for coinage.

The supply of bullion on the market has been rather small, and a good demand prevailed for yesterday's steamer. Gold bars were sold at 830@840, and silver ranged at par to ¾ ₱ cent discount.

Legal Tender Notes continue without animation at the Board, but a fair business is being done all the time on the street at current quotations—74¼@74½c

The Mining Share market was devoid of life early in the week, and with unimportant exceptions nearly every stock was sold at a decline. Since Wednesday, however, a rather better feeling has prevailed, prices are higher, and stocks are less freely offered. A number of city shares have materially improved recently, and are now well held at the advance. Many of these incorporations are judiciously managed and promise so well in the future that no serious decline in the present market value of their stock is feared.

Pacific Insurance still further advanced to $155, at which rate sales were made. San Francisco Gas was sold at $92½@95 ₱ share, and is now held at $94. Spring Valley Water Company was dealt in to the extent of 400 shares at $51¼@51, closing at $51 bid. California Navigation Company rose to $780 ₱ share (ex-dividend), and is now inquired for at that figure.

Gould & Curry was sold at $1,500@1,475, and closed yesterday at $1,475, s 30. The receipts of bullion are fully up to the average of the past few months, and the ores sent to the company's mill are yielding as well as usual.

Yellow Jacket opened at $1,425, fell to $1,305, rallied to $1,330, and sold yesterday at $1,375@1,350; some 52 feet changing hands. During the week ending on the 7th instant, 811 tons of ore were extracted from the mine. About 700 tons were worked (330 tons at the company's mills, and 370 at outside mills), yielding $28,000, or an average of $40 per ton. The new shaft is now down some 285 feet, and at a depth of 290 feet a second station will be opened to correspond with the 360-feet level in the central works. From this latter point, 200 feet south, the winze discloses a face of ore 50 feet in sight. The west cross-cut from the west body, on the 280-feet level, has developed a deposit of red ore 10 feet wide, from which, it is said, 1,000 sacks of first-class ore can be taken this month. The total indebtedness of this company, as shown by their balance sheet on the 5th instant, amounted to $339,699.66, including about $32,000 due in April and July next.

Savage rose from $1,260 to $1,310, and sold yesterday at $1,400. Advices from this mine are more promising. A new body of ore, lying to the west, has been met with in drifting from the shaft in the 1st, 2d and 3d levels, and in the 5th station the ore is said to be improving in quality and to show a larger development. From the different levels some 80 tons of ore are now taken daily, averaging about $40 per ton. The present indebtedness of this company amounts to some $150,000, but the receipts of bullion the current month will probably exceed $100,000, and it is thought that their liabilities will soon be materially reduced.

Crown Point has continued to attract attention, and 150 feet were sold, advancing from $1,180 to $1,310, receding to $1,185, rallying to $1,270, and closing at $1,240@1230. Nevada advices speak highly of recent developments in the north end of the 230-feet level. The cross-cut has opened a vein of good ore, 30 feet in width at that point, and drifting has begun from the shaft in the new level, to strike this deposit at a depth of 300 feet.

Belcher is in less favor, and small sales were made, declining from $930 to $820, and closing at $840 bid. The cross-drifts from the new levels disclose nothing favorable as yet.

Ophir advanced from $370 to $400, fell to $360, rallied to $380, and sold yesterday at $390, at which rates 60 feet changed hands. It is stated that the ores between the 6th and 7th galleries are growing scarce and poorer, and that the cross-cut on the 7th indicates nothing new. A continuance of work in the north mine, between the 4th and 5th galleries, produces about 5 tons of rich ore per day, assaying some $500, and a large lot of waste rock in the old works, between the 4th and 5th stations in the south mine, assays some $65. These deposits, together with the dump pile, which yields a good supply daily, are all it is said, that can be relied upon at present. The present indebtedness of this company exceeds $90,000.

Chollar has been very steadily maintained this week at $510@552, closing at about $515. An assessment of $34 ₱ share was levied on the 15th instant, the payment of which will cancel all the liabilities of the old incorporation.

Potosi has not fluctuated materially, and 127 feet were dealt in within a range of $450@475, closing at $472½. Upon this stock an assessment of $50 ₱ foot was levied August 15th. It will require another of $15 ₱ foot to extinguish the entire indebtedness of the old company.

The debt of the Chollar-Potosi company now amounts to about $205,000, including $80,000 due some time hence on account of the Grass Valley purchase.

Uncle Sam receded from $230 to $190, rallied to $240, fell to $225, and sold yesterday at $215@217; within this range 600 shares were dealt in. Overman fell from $224 to $200, rallied to $235, and closes at about $215. Advices from these claims are meager, but it is expected that a recent crushing of some 60 tons of ore at the Vivian mill will show a better result.

Imperial has been in decided favor, and 850 shares were sold, steadily advancing from $229 to $260 ₱ share, and changing hands yesterday at $270@266. The receipts for the first half of this month from the company's two mills, are unusually large, and amounted to some $60,000 from less than 1,000 tons of ore. The drift east from the shaft (in the new level), at a depth of 600 feet, will, it is thought, reach the body of ore found in sinking from the present working level above, on or about the 1st of September.

Confidence declined from $130 $120, rose to $140, and sold yesterday at $139@140. At a depth of 540 feet the southeast drift has met with a body of rich ore some six feet wide.

Bullion rose to $160, fell to $155, rallied to $163, and closed at $174. North American fell from $31 to $27½, rose to $32½, and closes at $29½. Sierra Nevada was dealt in at $17½@19½, closing at $19. Exchequer was sold at $47½@42, and is now offered at $44. Burning Moscow was sold at $34½@35, and closes at $34.

Daney rose from $42½ to $62½, fell to $55, and sold yesterday at $55@62½. The ores found in the 200-feet level, east of the shaft, two weeks since, still hold out. The same deposit has also been met with during the week, in the 265-feet level, and the vein at that point is said to be six feet wide. It is expected that these ores will extend to the Caney line, some 170 feet east.

The recorded sales of Stocks, since last Saturday, amounted in the aggregate to $949,327.

Wednesday, August 16.

1 sh Savage at 1310 per foot.
3 shs Belcher at 860 per foot.
16 shs Crown Point at 1300 per foot.
4 shs Crown Point at 1290 per foot, r w.
4 shs Crown Point at 1260 per foot, b 30.
4 shs Crown Point at 1240 per foot.
4 shs Crown Point at 1240 per foot, s 30.
8 shs Crown Point at 1255 per share.
12 shs Crown Point at 1250 per foot.
12 shs Crown Point at 1240 per foot.
36 shs Crown Point at 1200 per foot, s 30.
4 shs Crown Point at 1235 per foot, s 3.
4 shs Crown Point at 1235 per foot
8 shs Crown Point at 1225 per share, s 3
4 shs Crown Point at 1240 per share, b 30.
5 shs Overman at 191½ per foot.
8 shs Overman at 200 per foot.
8 shs Yellow Jacket at 1315 per foot.
1 sh Yellow Jacket at 1305 per foot.
5 shs Uncle Sam at 200 per foot.
3 shs Uncle Sam at 202 per½ foot, s 3.
5 shs Uncle Sam at 195 per foot, s 30
10 shs Uncle Sam at 207½ per foot, s 3.
12 shs Ophir at 375 per foot, b 3.
12 shs Ophir at 370 per foot.
4 shs Potosi at 462½ per share.
12 shs Potosi at 460 per foot.
5 shs Potosi at 481 per foot.
2 shs Potosi at 660 per foot, s 5.
8 shs Daney at 55 per foot.
4 shs Chollar at 500 per foot.
10 shs De Soto at 7½ per share.
10 shs Imperial at 243 per share.
4 shs Imperial at 242 per share
85 shs Imperial at 242½ per share.
30 shs Sierra Nevada at 19 per share.
30 shs Sierra Nevada at 19 per sh, s 3.
2 shs Bullion at 160 per share.
15 shs Exchequer at 47 per share, s 3.
15 shs Exchequer at 47½ per share.
6 shs Exchequer at 47 per share.
4 shs Confidence at 129 per share.
270 shs N. American, Ex Sam, at 26 per sh.
30 shs N. American, Ex Sam, at 27 per sh.
2 shs Cal. Steam Navy. Co. at 78 per cent.
$ 5,000 Legal Tender Notes at 74½, b 3.

AFTERNOON SESSION.

103 shs Ophir at 370 per foot.
12 shs Ophir at 365 per foot.
12 shs Ophir at 370 per foot, r w.
60 shs Ophir at 375 per foot, b 30.
108 shs Daney at 50 per share.
24 shs Daney at 62½ per foot.
40 shs Daney at 62 per foot.
3 shs Belcher at 820 per foot, r w.
5 shs Uncle Sam at 210 per foot.
5 shs Uncle Sam at 210 per foot, s 30.
4 shs Uncle Sam at 217½ per foot.
4 shs Crown Point at 1200 per foot.
4 shs Crown Point at 1180 per foot.
4 shs Crown Point at 1175 per foot.
8 shs Crown Point at 1185 per foot.
4 shs Chollar at 500 per foot.
5 shs Imperial at 242½ per share.
2 shs Imperial at 244 per share.
75 shs Imperial at 245 per share.
8 shs Imperial at 245 per share, s 3.
60 shs Buckeye 6 per share.
10 shs Bullion at 160 per share, s 3.
10 shs Bullion at 151 per share.
30 shs N. American, Ex Sam, at 28 per sh.
10 shs N. American, Ex Sam, at 29 per sh.
10 shs Exchequer at 47 per share.
30 shs Gov Nye at 9 per share.
140 shs Lady Bryan at 5 per share, b 5.
4 shs S F Gas Co at 95 per cent.
70 shs Spring Valley W W Co at 51 per cent

Amount of sales.....$157,650 00

Thursday, August 17.

12 shs Gould & Curry at 1500 per foot, r w.
2 shs Gould & Curry at 1475 per foot.
1 sh Uncle Sam at 215 per foot, s 30.
11 shs Uncle Sam at 221 per foot.
9 shs Uncle Sam at 220 per share.
5 shs Uncle Sam at 220 per foot, s 3.
1 sh Uncle Sam at 225 per foot.
15 shs Uncle Sam at [illegible]er foot.
5 shs Uncle Sam at 232½ per share.
10 shs Uncle Sam at 235 per foot.
16 shs Potosi at 470 per foot.
10 shs Potosi at 467½ per foot.
10 shs Potosi at 468 per foot.
20 shs Daney at 60 per foot.
52 shs Daney at 55 per foot.
3 shs Yellow Jacket at 1350 per foot, r w.
1 sh Yellow Jacket at 1370 per foot.
1 sh Yellow Jacket at 1310 per foot.
20 shs Chollar at 502½ per foot.
4 shs Chollar at 500 per foot, s 30.
8 shs Crown Point at 1225 per foot.
12 shs Crown Point at 1230 per foot.
4 shs Crown Point at 1235 per foot.
4 shs Crown Point at 1240 per foot.
4 shs CrownPoint at 1260 per foot.
4 shs Crown Point at 1260 per foot, s 3.
12 shs Crown Point at 1260 per foot.
4 shs Crown Point at 1265 per foot, s 3.
72 shs Ophir at 360 per foot, r w.
5 shs Overman at 226 per foot.
25 shs Burning Moscow at 34½ per share.
53 shs Burning Moscow at 34½ per sh, s 3.
23 shs Wide West at 7 per share.
20 shs Wide West at 7¼ per share.
10 shs Wide West at 7½ per share.
40 shs Wide West at 7¾ per share, s 3.
5 shs Bullion at 160 per share.
5 shs Bullion, G H, at 160 per share, s 3.
5 shs Bullion at 162½ per share.
100 shs Caledonia Tunnel at 5 per share.
50 shs Buckeye at 6 per share.
4 shs Confidence at 129 per share.
11 shs Confidence at 130 per share.
6 shs Confidence at 132½ per share.
12 shs Confidence at 135 per share, r w.
4 shs Confidence at 137½ per share.
10 shs Imperial at 247½ per share.
5 shs Imperial at 250 per share, b 3.
24 shs Imperial at 250 per share.
5 shs Imperial at 251 per share.
5 shs Imperial at 252 per share, b 3.
5 shs Imperial at 255 per share, b 30.
10 shs Nevada (J. O.) at 14 per share, b 3.
50 shs N. American, Ex Sam, at 31 per sh.
40 shs N. American, Ex Sam, at 31, r w.

AFTERNOON SESSION.

12 shs Ophir at 375 per foot.
60 shs Ophir at 380 per foot.
1 sh Yellow Jacket at 1330 per foot.
1 sh Yellow Jacket at 1370 per foot.
1 sh Yellow Jacket at 1325 per foot, s 30.
12 shs Yellow Jacket at 1350 per foot, s 30.
2 shs Yellow Jacket at 1375 per foot.
88 shs Chollar at 505 per foot.
5 shs Uncle Sam at 225 per foot.
10 shs Uncle Sam at 230 per share, s 30.
5 shs Uncle Sam at 233 per foot.
7 shs Uncle Sam at 232 per foot.
2 shs Uncle Sam at 230 per foot.
5 shs Uncle Sam at 230 per foot, b 30.
36 shs Uncle Sam at 225 per foot.
20 shs Uncle Sam at 226 per foot, s 30.
2 shs Uncle Sam at 226½ per foot.
5 shs Uncle Sam at 227 per foot.
5 shs Uncle Sam at 252 per foot, s 3.
72 shs Daney at 55 per share.
20 shs Daney at 56 per foot, at 30 days.
40 shs Daney at 55 per share, s 30.
2 shs Confidence at 140 per share.
6 shs Imperial at 255 per share.
5 shs Imperial at 225 per share, s 3.
2 shs Imperial at 257½ per share.
15 shs Imperial at 260 per sharo.
10 shs N. American, Ex Sam, at 37½ per sh.
120 shs Buckeye at 5 per share.
8 shs Exchequer at 42 per share.
5 shs Bullion at 163 per share.

Amount of sales.....$168,465 00

Friday, August 18.

8 shs Gould & Curry at 1475 per foot, s 30.
18 shs Uncle Sam at 220 per share.
5 shs Uncle Sam at 216½ 215 per share.
8 shs Yellow Jacket at 1375 per foot.
4 shs Savage at 1400 per foot, b 30.
1 sh Savage at 1385 per foot.
72 shs Imperial at 260@260 per share.
10 shs Imperial at 260 per share, s 30.
30 shs Imperial at 265@267 per share.
20 shs Potosi at 470@740 per foot.
30 shs Potosi at 473 per foot.
20 shs Crown Point at 1270@1250 per foot.
8 shs Crown Point at 1210 per foot.
16 shs Crown Point at 1235@1240 per foot.
20 shs Daney at 56 per foot.
18 shs Belcher at 825@850 per foot.
13 shs Confidence at 140@139 per share.
65 shs Sierra Nevada at 20@19 per share.
4 shs Burning Moscow at 34½ per share.
28 shs Bullion at 164 per share.
20 shs Wide West at 8 per share.

AFTERNOON SESSION.

5 shs Hale & Norcross at 525@515 per foot.
10 shs Nevada, J. G., at 14 per share.
10 shs De Soto at 7 per share.
5 shs Yellow Jacket at 1350 per foot.
20 shs N. American, Ex Sam, at 30@29½.
10 shs Chas Cany at 7 per share.
97 shs Imperial at 270@265 per share.
100 shs Chollar at 520@515 per foot.
30 shs Chollar at 525 per foot, b 30.
90 shs Potosi at 476@472½ per foot.
1 sh Savage at 1400 per foot.
50 shs Daney at 60@62½ per foot.
12 shs Ophir at 380 per foot.
20 shs Bullion at 170@174 per share.
60 shs Burning Moscow at 35@34½ per sh.
5 shs Uncle Sam at 217 per foot.

Amount of sales.....$163,210 00

[From the Daily Fair Press, Saturday, August 12.]

OUR SECOND VOLUME.

On this opening eve we herewith present to the mechanics and merchants of San Francisco, and to all visitors to the exhibition of Industry and Art, the first number of the second volume of the Mechanics' Fair Daily Press. We are under many obligations to our friends and patrons for the confidence they have manifested in our enterprise, as evidenced by the liberal manner with which they have extended to us their patronage. In no other city in the world has an enterprise of this kind been attempted on so large a scale; and yet here we are, on this distant Pacific slope, in a city but yet in the middle of its *teens*, presenting the first number of the second volume of a Daily Fair Press which would be considered respectable even as a commercial journal in any city. We take no credit therefor upon ourselves, but yield the entire meed of praise to the merchants, mechanics and manufacturers of California, who, considering their isolated position and brief term of associated existence, by the common consent of the world, stand unrivalled on the globe for enterprise, energy, liberality, and intelligence.

The paper will continue to be printed at the Pavilion daily, during the continuance of the Fair, and, as last year, will be gratuitously distributed to all visitors. It will be devoted mainly to descriptions of articles on exhibition, and we shall endeavor to make it to some extent a guide to the more interesting groups within the building, and an exemplifier of their peculiarities, whether natural or artificial. We intend that the Daily Fair Press, when completed, shall form as perfect and complete a description of the Exhibition as it is possible to collect within the time and space allotted therefor. Every care will be taken to render it a compilation worthy of preservation, and to that end we shall receive subscriptions for full sets of the volume, to be delivered after the close of the Exhibition, and to be bound as desired by the subscriber, either after the manner of the monthly series of the Mining and Scientific Press, or in the more substantial manner of the regular volumes of that paper, specimens of both of which may be seen at our stand in the Pavilion.

The advantages which the columns of the Daily Fair Press present as an advertising medium must be manifest to all. No other medium can be found in the city so well calculated to arrest the attention of the thousands of strangers who will visit the city and Fair during the continuance of the Exhibition.

[From the Daily Fair Press, Monday, Aug. 14.]

THE AWARD OF PREMIUMS.

There has been much inquiry as to how many premiums were to be offered to exhibitors at the Fair—their classes, kinds, and value; also what kinds of articles will be permitted to compete, and the highest degree of merit which they must possess to take a first premium; also whether the prizes are to be confined to any particular class of articles, to the exclusion of all others; and whether the awards will be made in a spirit of fairness and impartiality?

In answer to the last inquiry, we can answer, that it will be the intention of the Board of Directors to see that exact justice is done. Some of the other questions are answered in their circular, to wit:

First. The Executive Committee have provided gold medals, which will be given as special premiums, to be awarded to such inventions and manufactures of the Pacific coast as shall prove of great practical value to the mining, agricultural, and manufacturing interests thereof.

Second. Silver medals have been provided, which will be awarded as special premiums for domestic inventions and manufactures of superior merit.

Third. The Diploma will be awarded as first premium for superior skill in workmanship and finish of articles exhibited.

Fourth. The certificate of merit will be awarded as second premiums to such articles as show merit.

No premium to be awarded, unless two or more articles of a kind are exhibited for competition.

No premiums will be awarded on articles entered after the 14th inst.

Electricity as an Agent of Defense.—A letter from Toulon, published in a French paper, describes a recent discovery, by which electricity is made to subserve the purpose (but in a more effective manner), of forts and land batteries in defending marine harbors. The letter says: "If ever an enemy's squadron dare present itself before a French port it could easily be pulverized before it could have time to fire a shot. All present at the experiment were convinced of the fact when they saw an old ship-of-war thirty feet wide lifted out of the water, split and sunk in less than a minute at a signal from the inventor. The destructive effects of the machine were so startling that it became evident no iron-plated ship-of-war could resist such a shock. What is very remarkable in this new instrument of destruction is that it is not necessary to wait until the enemy's ship strikes the machine, as in case of the torpedoes invented by the Russians and Americans. The French system is said to be more certain and more expeditious. The electric spark reaches the enemy's ship, and destroys it with the rapidity of lightning."

"Sound!" la, la, fa, me, Sing!—Shakspeare, or somebody else, was right when he said,

> "Music hath charms to soothe a savage,
> Rend an ear or split a cabbage.

No sooner was the sweet nasal twang of maidenly voices heard last night, proceeding from the region of the New England Kitchen, than there was a grand rush for its precincts—for the time devoted to accoustics, in harmony with the fumes of gravy and sour kraut. Quarters rained upon the ticket keeper in astonishing profusion, and all other things were forgotten in the grand *squeeze* of the excited promenaders to gain admittance. The concert hall was a jam, and the entertainments sonorously rich. Those antiquated specimens of moving statuary are bound to succeed in their novel idea. Antiquated in *style*, only, ladies! We pray you, do not misunderstand us. We would not incur the displeasure of those bright eyes, beneath matronly *coiffuers*, for all the good things that are stowed away in your kitchen larder.

New England Kitchen.—To-night, at eight o'clock, the old folks will have a quilting frolic, with Mehitable, Prudence, Charity, Wealthy, Susy, Jemima, Jerusha, Abigail, and all the other charming "sisters" in attendance. After the jolities of this grand event have "subsided," the frames will be removed, and the young 'uns proceed to "shake a foot." Partners can be had for asking; and the fair ones of the short-waists and high combs, expect that visiting gents will not be backward.

The Attendance.—The attendance at the Fair on the opening night, was variously estimated at from fifteen hundred to two thousand persons. On Friday evening, the second night, there was considerable of falling off. But on Saturday night the number increased to a vast multitude—perhaps over three thousand persons.

[From the Daily Fair Press, Tuesday, August 15.]

"Call me Pet Names."—The darling creatures who preside over the *cusisine* of the "New England Kitchen," and receive their feminine prefixes from the delectable times of Cotton Mather, of blessed memory, (may his soul rest in peace!) exhibit in the "gorgeous array" of their persons, a punctilious observance of fashion truly admirable in damsels so young, graceful, modest and tender. The style of apparel which they have adopted, heightens and multiplies their charms. Those short waists—could anything be more conducive to a development of fine physiological points? Those carelessly depending skirts—how rapturously inviting for a contra dance or "pigeon-wing!" Those brogans, with pati-colored rosettes on the instep—observe the elegance they impart to the foot! And what shall not be said of *them* tortoise shell combs—rearing their elaborately carved backs into upper air, like the serrated ridges of timber-dotted mountains! And the prim looks, pinched noses, and scarlet-tinted foreheads—ahem! cheeks of the animated beauties—don't they tell, though, on the hearts of susceptible bachelors? But above all, the *sobriquets*, the "pet names," those are the things chiefly and particularly to admire. Aunt Susy wields the baton and the toasting fork; Cynthiana and Aunt Moy, spinsters, are the spinners; Charity, Abigail, Jerusha, Patience, Dorcas, Sally Ann, Jemima, Dolly, Thankful, Wealthy, Priscilla and Gloriana, make themselves useful as maids of all-work; waiting at table, washing dishes, ogling at the guests, ("want to know!") blushing at the wit-sallies with which they are saluted; ("get out!") and bustling around to make themselves agreeable as a "basket of chips;" ("den tell!") Where, short of the picture gallery, was ever such a galaxy of elegance and refinement in Yankee character to be found? "Call me pet names, dearest; call me pet names."

Frink's Improved Machine for Making Soda.—Visitors to the Fair cannot have failed to notice the highly polished copper cylinders, used as a fountain for making carbonated soda, which occupies a position at the corner near the Daily Fair Press publication office, in the Pavilion. Its beauty is an attraction, and the quality of the soda which it generates, is pronounced superior to all other kinds in healthfulness and flavor. Mr. Frink, by his invention, dispenses with the acid-globe and one fountain, using a generator and one fountain only, instead of a generator and two fountains, as in the ordinary machine, and avoiding all necessity for wasting gas. It has three pumps, and can make double the quantity of soda, and of a purer quality, at less cost than the old style. Its compact form is also an advantage. The entire machine takes up a space of only four square feet, and is portable at little cost and trouble. For saloons, drug stores, and private families it has advantages which must be greatly appreciated by those familiar with the trouble and expense heretofore attending the manufacture of soda. This elegant machine was manufactured in this city, by Graves & Smith, No. 522 Davis street.

Exhibitors, Please Notice.—The Press will be issued daily during the Fair. The advertisements and notices which appear in its columns will pass into those of the weekly Mining and Scientific Press, without additional charge. Exhibitors should notice this fact, and "pass in their checks." The editorial and publication office of the Daily Fair Press can easily be found, from the fact that Mr. Lincoln's statue is pointing directly at it! (*Inter nos.* The publishers had a private understanding with the sculptor *to shape it so*; and he did it!)

Note This Fact.—If an article is worthy of exhibition at the Fair, its peculiar advantages and virtues ought to be explained. The proper way to do this, is through the columns of the Daily Fair Press. Exhibitors and inventors are not always present to answer the inquiries of curious visitors; but a description given through the columns of the Press, satisfies not only those in attendance at the Pavilion, but goes out into the great world, and is seen and read by tens of thousands.

Bear this in mind, gentlemen. You have gone to considerable trouble and expense to place your articles in the Fair. A few dollars more paid for advertising them, will prove the *strength* of the whole game, for it has its return in a golden torrent.

Orders for Job Printing of every kind—hand-bills, cards, etc., if left at the stand of the Daily Fair Press, will be promptly attended to. A hand-bill description of a piece of machinery, or any other object on exhibition, is a great advantage to the exhibitor, a convenience to the visitor, and saves a vast amount of talking in the way of explanations, etc.

A Novel Invention.—A great deal of curiosity is manifested by visitors to the Fair, to know the uses of a large octagon drum, exhibited among the articles belonging to Mr. V. Squarza, of the "Symposium." We would enlighten them by stating, that it is a machine for puncturing the skins of all fruits of the citrous species—such as oranges, lemons, and limes, so as to obtain the essential oil contained in their rinds without piercing the inner pulpy membrane. It is claimed by Mr. Squarza, the inventor, that after the fruit has been so punctured, it will preserve much longer than otherwise. The quanity of oil obtained by this process is greater, and the quality much purer than that extracted by the modes at present adopted, which entirely destroy the fruit for other purposes. In this respect it will effect an immense saving to those who use largely of these essential oils for flavoring liquids. The invention is known as "Squarza's Esseutial Oil Extractor," and claims a San Francisco paternity.

Innocent Soul.—A lady not particularly well versed in mechanics, visited the boiler of the large engine at the Fair, the other evening, and observing the furnace door open, and a blazing fire inside, inquired "if that was the New England Kitchen?" Not quite, Miss Unsophisticated!

Not so Cheap.—In the machinery department of the Fair is a patent boot blacker, which operates with a crank. When the inventor wishes to "show it off," he invites some gentleman to present his foot, that he may give a practical example of its mode of operating. It so happens on such occasions that some officious fellow other than the person to whom the invitation is more particularly addressed, pushes forward and presents his *feet*, in the expectation that he will have his boots blacked for nothing. The inventor good naturedly proceeds to polish off one boot, and when the second is presented, informs the subject of the operation very politely that he is *through*. "But—but" stammers Mr. Officiousness, "how can I go into the Fair with one boot polished and the other dusty?" "Oh!" replies the inventor, "that is not my look-out. My vocation is exhibiting a machine—*not blacking boots!*" The point of the joke is beginning to be understood.

Slow in Motion.—Exhibitors are slow in bringing their goods to the Fair this year. Every day more or less entries are made; but still there is a great deal of space claimed which remains vacant in the Pavilion.

Propelling Machinery.—The two beautiful steam engines in the northeast wing of the Pavilion, intended for the propulsion of machinery, have been erected—the larger by H. J. Booth & Co., and the smaller by the proprietors of the Vulcan Foundry. It is believed that they will afford ample power for all purposes required by exhibitors in the heavier branches of the mechanical department.

Heavy Machinery.—The display of heavy machinery is not so great at the Fair this year as it was last. The number of inventions has not been so great. Another, and perhaps better reason is, that the expense attending such exhibitions is very great. The freighting and handling of large pieces of manufactured iron; their erection into a machine; the attention which such a machine requires in operation; the expense of pounding material, as in the case of a quartz crusher or saw mill for instance, with which to show the working power of the machine, etc., etc., are items of cost which proprietors are not willing to incur, supposing them even to possess the ability.

Lincoln's Statue.—The colossal statue of Mr. Lincoln is the subject of a great deal of criticism—in some cases amounting to uncerbated animadversion. One man finds nothing in it to admire; another, nothing to condemn. Most people think the position constrained; the dress to loose fitting and inappropriate in style; the gesture of the left arm unnatural and impossible; the whole physiology of the figure angular, skeleton-like and repulsive. This kind of criticism is unfair. Mr. Lincoln, it is well known, had no pretensions to beauty, His form was ungainly; his features harsh; his positions awkward. The sculptor never saw him, and performed his work entirely according to the crude ideas derived from photographs and engravings of the murdered President. In the evening, the light shows his statue to very bad advantage and many of those who pronounce against it when thus seen reverse their decision next day. In our opinion the work has its defects, particularly about the "apparel," but it is nevertheless a really creditable performance.

[From the Daily Fair Press, Wednesday, August 16.]

Pacific Straw Works.—Wherever a bevy of ladies is assembled together, manifesting an interest in any work of the mechanic arts, one may rest assured that something is there worthy to be seen. So it is nightly at the Pavilion of the Fair. Between two of the doors leading into the picture galleries, is the department of the Pacific Straw Works, whose place of business is at 603 Market street, opposite the mouth of Montgomery. A couple of gentlemen are in attendance with one of the dies of the establishment, to illustrate the manner in which the jaunty hats worn by the pretty girls, are stamped into shape. The operation is simple, but to the ladies highly interesting; and, indeed, somewhat marvellous even to the gentlemen, whose attention appears to be fully as much absorbed in the study of its manipulations.

A small piece of foundation muslin is taken, after having been saturated with water, spread over one of the iron models or dies, and stamped into a fashionable shape in a moment of time. The die being hollow, has a strong flood of gas-flame poured upon its under side, which dries the muslin, so that when it is taken off, it is patterned and ready for trimming.

The proprietors of the Pacific Straw Works manufacture every article connected with their establishment, and shape their models to suit the prevailing fashions of bonnets and hats, whatever those fashions may chance to be. They commenced business in this city in July, 1862, with some misgivings as to the success with which it would meet; but the demand for all work in their line became so great, and has ever since increased at so rapid a rate, that the works have become a permanency and a necessity to the female portion of community. Besides manufacturing, they bleach, color and finish straw and felt hats and bonnets, and keep constantly on hand an extensive supply of frames, like those we witness shaping in the Pavilion. Such an institution is not only a novelty in a Fair, but a source of pride and indispensable utility to the entire city.

Unmannerly Boys.—The bad boys were out in force last night at the Pavilion, and took very little pains to conceal their rudeness. They formed into bands, and passing through the avenues, robbed the different tables of the cards and circulars of advertisements which they contained, and used them for mischievous purposes. The cards they "shied" at each other, and at the faces of visitors; many of whom were struck, and if not wounded, at least very much annoyed. The attention of the Directors are called to this nuisance. Boys who practice such rude and unmannerly behavior, should either be accompanied by their parents or guardians, excluded altogether from the Fair, or watched, and their vicious conduct restrained, or they will drive off visitors, many of whom were last evening very much disgusted because the juvenile scamps were not checked in their ruffianly proceedings.

The Fountain.—Running water has ever been a symbol to enrich poetry. The mind associates it with green fields, fragrant flowers, shady aleoves, and all that kind of things. It is at least the antithesis of aridity. For this reason, we presume it is, that so many persons prefer to occupy the seats under President Lincoln's statue. There is a cooling influence about the sparkling showers that fall from the jets, and a music in their splashings that arrests the ear of the promenaders, and causes them to linger, and gaze, and become lost in a reflective train of thoughts.

Analysis of Petroleum from Mattole Valley.—The following is the analysis made by Professor Rowlandson of samples of petroleum obtained by the Allen and Sutter company, 145 feet in depth, alluded to in our last weekly number.

Good Burning Oil	77 ₱ cent
Amber Colored light Machine Oil	5 ₱ cent
Dark Colored Machine Oil	4 ₱ cent
Loss and Residue	14 ₱ cent
	100

The burning oil was of a character equal to the best imported, lasting as long and of equal photometric power.

A Large Audience.—The number of visitors to the Fair last night exceeded largely that of any previous evening. The young ladies with pretty faces and kiss-me-if-you-dare hats, are beginning to discover that it is a delightful place of promenade—to see and be seen; the middle-aged, to be amused and instructed; the old to note the many improvements in the arts and mechanics made in the last half century; and the juveniles to romp, and indulge their propensity for innocent mischief. Every one must be more or less profited. Sometimes, to be sure, a fellow runs plump against a creditor; but a little adroitness is sure to serve his turn. People don't go to such places to be dunned, and won't submit to it; that's more of it.

Delays are Dangerous.—A well-known merchant of this city was solicited by an agent to have his life insured, and at once admitted the policy of doing so, and made a promise to do so on his return from Oregon; but, alas! he deferred it too long, for he was on board the Brother Jonathan and met a watery grave. Profit by this sad warning, and insure your life. The advertisement of the North American Insurance Company may be found in another column. Mr. Eaton, who has charge of the business on this coast, will be glad to see you. Give him a call.

Gold Fish.—The fountain has received the addition of several gold fish. They are not so much of a novelty as formerly, on account of the vast number in the market. A few fish of species indigenous to our own waters, and larger in size, would increase the interest attaching to the fountain.

Those who wish to inspect the different articles on exhibition at the Fair, with a view to arrive at their intrinsic merits, should visit the Pavilion in the daytime, when the crowd is not so great.

There was another immense rush of visitors to the Fair last night; a larger multitude of people, we think, than has been present on any previous night.

[From the Daily Fair Press, Thursday, August 17.]

Rebecca, the Cider Tapster.—The 24th chapter of Genesis relates that Abraham, the patriarch, was much disturbed for fear, after his death, his son Isaac should choose a bride from among the Canaanites, where he then dwelt. He was very particular, therefore, in giving instructions to his chief servant to visit his own tribe, and to direct how, when with it, he should deport himself in selecting such valuable piece of "furniture" for the young rogue. In obedience to the oath, the servant took ten camels and proceeded to Nahor, in Mesopotamia. He stopped outside the walls of the city, on the evening of his arrival, near a well of water. It was there Rebecca, the daughter of Bethuel, son of Milcah, the wife of Nahor, Abraham's brother, came to fill her jars, as was the custom of the period, before jaunty hats and crinoline skirts were in fashion. She was "very fair," and not at all proud; for she carried her water jar on her head. After she had filled it, and was about to depart, the wary old fox who was acting as Abraham's emissary, having an eye to the damsel's charms, accosted her, and solicited a drink. Like a good girl, Rebecca let her jar down on her hand, and gave him as much of the aqueous element as his thirst demanded. Her kindness did not end here. She even volunteered to water the camels, and did water them—out of a trough. For these kind offices so generously bestowed, the servant was not ungrateful. He presented Rebecca with a golden ear-ring, half a shekel in weight (equal to four gerah, or twelve and a half cents, in coin; generous messenger!) and two bracelets, worth ten shekels in gold, or about a dollar and eighty cents in greenbacks After thus dipping into his treasury, the servant volunteered, with his suite, to lodge with Rebecca's father. They were kindly received and hospitably entertained. The servant told his story—in Abraham's name—got consent of Rebecca's parents that she should become a spouse to Isaac, and then became really prodigal in the distribution of his presents. (In the meantime he had probably had his "tod.") The upshot of the whole matter was, that he carried Rebecca off to his young master; who, happening at eventide to be loitering near the well Lahai-roi, in contemplative mood, lifted up his eyes, and seeing Rebecca's retinue exclaimed, "*the camels are coming!*" (This was the suggestive origin of the celebrated song of that title, by Bobby Burns—perhaps!)

Well, to illustrate: Rebecca, of the New England Kitchen, who is "exceeding fair to look upon," and Betty, her assistant tapster, "lustrious among the daughters of beauty," preside over the cider department, where pies and apples are also dispensed. They are symbols of the characters in the pleasant scriptnrs story we have been relating. Let them be well patronized; and although *our* Rebecca has already found her Isaac, the liquid she offers is a beverage nutritious in quality, delicious in flavor, and by no means inebriating in its effects.

Visitors! you who compassionate those who "go down to the sea in ships," and return invalids unable to perform manual labor, think of Rebecca at the Fair, and drop a quarter into her hand—for the benefit of the "true Yankee sailor."

The Fat Boy.—Have you seen "Jonathan," the Fat Boy of the New England Kitchen? He is not, like old Wardell's Fat Boy, a sleeper; but rather like Billy Birch's ghost, a "sprightly and healthy goblin;" full of merriment; prolific in antics; a very Puck in girdling the "strained vent of the imagination." You must see this indigenous specimen of a clown. He lacks only the cap and bells to be perfect in his vocation. His great forte is in the Jocko line; animated pantomime; expressive gyration; silent contortion. By all means see Jonathan, and thereby acquire a "memory" to be presented and reproduced whenever and wherever New England Kitchens are the order!

Zeke, a Character.—Dogberry says, that to be a well-favored man is the gift of Fortune; but that "readin' and writin' comes by nature." Now, Zeke, the clown, in the New England Kitchen, is a well-favored man. He is also a genius. No trumpeter of the "Invincible Dragoons" ever sounded a blast with a better echo. The renowned Anthony Van Corlear is eclipsed by Zeke. Even Rhoderick Dhu, of whom it was said

"One blast from out his bugle horn
Was worth a thousand men,"

becomes a second-rate personage when compared to the funny Zeke. He is so fresh, so bewitching, so irresistible! The little boys appreciate you; the ladies admire you; the gentlemen all say, "Bully for Zeke!" We say, "Go it, Zeke!"

A Curiosity.—A fragment of the original Plymouth rock is on exhibition in the New England Kitchen, contributed by Mr. E. I. Barra. The historic interest attaching to such a relic makes it indeed an object to be seen by the *savant* and antiquarian.

A "Down East" Party.—A party of eight couples, all original, dyed-in-the-wool Yankees, sat down in rows, the other evening, to supper in the New England Kitchen. The way the pork and beans were demolished was a "caution" to Moses! And as for pumpkin pies and apple "sass," Doreas, Jerusha, Jeminia and Abigail found their powers completely overtasked in carrying in such kinds of "fodder." If the funds of the Seaman's Aid Society were not particularly benefited on account of the weighty cargoes taken on board; there were some repleted stomachs in the party, and no mistake!

Storming the Kitchen.—If the patronage of the New England Kitchen continues to increase as it has done in the last three nights, Aunt Susan will be compelled to enlarge. The rush was so great last evening, that every available nook of standing room was occupied. As fast as people retired, their places were occupied by others squeezing in. There was an old-fashioned "shindy"—or as modern innovation has vulgarized it, "shin-dig." Zeke, Jonathan, Reuben, Softhead, Betty, Doreas, and others of the chosen brother and sisterhood, "sailed in steep," on the occasion.

1852. 1865.

Thirteenth Year of Publication.

THE GOLDEN ERA.

Founded in 1852.

The oldest Weekly Paper in the State, permanently established, and more widely circulated at home and abroad than any other on the Pacific Coast. In California, the Atlantic States, and throughout the entire field of its great and rapidly increasing circulation, The Golden Era is universally regarded as a Literary and Family Journal of unequalled excellence. Among its contributors are all the best writers on this side of the Continent, and correspondents of distinguished ability in New York, Paris and London.

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The Golden Era is furnished to CLUBS at the following rates: Three Copies, one year, Ten Dollars; Five Copies, one year, Fifteen Dollars; Ten Copies, one year, Twenty five Dollars. An extra copy will be forwarded, free, for one year, to the person sending a club of five or ten subscribers.

The Golden Era is now enlarged by the addition of eight columns to its pages—and presents fifty-six columns, containing the greatest possible variety of Valuable and Entertaining, Original and Selected Matter, all combining to render The Golden Era a Literary and Family Journal of surpassing interest and attraction; a Welcome Guest in Cottage and Cabin; the favorite at the fireside in City and Country, the most useful, agreeable altogether desirable publication for California readers and their kindred and friends in the Atlantic States, Europe, and elsewhere. Every Household in the Mountains and Valleys, the Cities, Towns, and Mining Camps of California and throughout the Pacific States and Territories, should receive and welcome The Golden Era as a regular weekly visitor.

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AGENTS in every part of the State receive subscriptions for the Golden Era.

POSTMASTERS in California, Oregon, and neighboring Territories obtaining subscriptions for the Golden Era and forwarding the same, with name and address of the subscriber, will be allowed a very liberal commission therefor.

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Now is the Time to Subscribe.

TO ADVERTISERS.

Best Advertising Medium.—The Golden Era is the oldest Weekly Journal in California, and indisputably enjoys by far the largest circulation in the city of San Francisco and in the interior of the State.

THE GOLDEN ERA

Is universally read in every city, town, village and mining and agricultural precinct in California, and offers unique and unequalled advantages to those who desire to bring their business prominently before the community. Only a limited space is devoted to advertising. All advertising pages are also largely occupied with fresh and interesting reading matter, and no advertisement can escape attention. The charges for advertising are not so large, proportioned to the benefits derived, as those of other papers Liberal terms will be made with those who advertise for three or six months, or by the year.

BROOKS & LAWRENCE,

Golden Era Building,

No. 543 Clay street, near Montgomery, San Francisco.

[From the DAILY FAIR PRESS, Friday, August 18.]

LOW'S GRAIN SEPARATOR.

It is generally conceded that the American people are the most inventive in the world, particularly as relates to the origin of machinery for practical uses and its improvement. In this respect they are the benefactors of the nations, for the product of their genius enriches agriculture and simplifies the processes of labor. The Fair that is now being held, is designed to furnish ocular proof of the rapid strides daily making in this country toward the creation and perfection of everything that is valuable as an implement to develop and elevate the practical arts and sciences. As furnishing a case in point to illustrate this idea, we may refer to Mr. Leonard Low's Grain Separator, a Sacramento invention, and certainly one of the most useful as well as ingenious pieces of machinery in the Pavilion. It is an object of attraction to every one who understands its uses; and from the fact that it has been thoroughly tested, and proved more than adequate to the performance of all the duties for which it was intended, is looked upon as an established fact, only requiring to be well known, to become universally adopted.

The press has passed many deserved encomiums upon this invention, and the stamp of popular approbation has already made it a general favorite. It is quite peculiar in its construction, and consists in a series of sieves, placed one over the other, and arranged around a central shaft, in sets of from two to eight in number, as may be desired, and capable of cleaning from 50 to 250 bushels of grain per hour. The operation of the machine is very simple; the motion being imparted to the sieves by means of a shaft, on which there is a slide crank to regulate the length of the vibratory motion, and which may be readily adjusted. So small is the power required to drive the machine that a belt three-eights of an inch in width will convey power sufficient to clean 7,000 pounds of wheat in an hour. The speed of the machine is regulated by cone pulleys. The wheat is placed in a hopper at the top, from which it is fed into the machine, automically, by means of a telescopic nozzle. Each machine is divided vertically into two or more compartments, called sets, into which the grain is fed equally by cross-bars dividing the flow. Each set may be comprised of a greater or less number of sieves in a set, as may be found necessary to perfect work. The mustard, chess, or other small grain, is first separated from the wheat and automically disposed of; the grain afterwards passes from sieve to sieve throughout the entire series, each sieve taking from the mass more or less of the imperfect grains, until the clean wheat is finally deposited in a proper reservoir at the bottom. There is also a convenient arrangement of raffers, by which the sieves may be simultaneously cleaned of anything choking them, by the simple pulling of a string, which operation may be performed as often as desired without stopping the machine. The testimonials which Mr. Low exhibits are conclusive as to the merits of his separator. We think the invention worthy of their endorsement, and shall here re-produce a couple of certificates, one from Marysville, and the other from Sacramento. Mr A. D. Starr, of the "Buckeye Mills," in a letter dated from Marysville, August 12th, says:

"LEONARD LOW, ESQ—*Dear Sir*:—My flour is certainly worth twenty-five cents per barrel more by having grain cleaned by your machine than it would be by any other I have seen. I can truly say, also, that it is my candid opinion there is not of different make another Grain Separator in this State which can favorably compare or compete with yours. It separates barley and blue pod from wheat to perfection. In fact, to sum all up, it is a perfect Grain Separator, and just what all mills want in this State. This one of mine far exceeds my most sanguine expectations."

Over date of Sacramento, August 10th, 1865, Mr. S. H. Garfield, of the Pioneer Mills, certifies as follows:

"L. Low—*Dear Sir*:—In reply to your request respecting your Grain Separator, we would state that we have had one of them in use at our mill for the last twelve months. We have been to no expense for repairs on the Separator since we have had it in use. It will clean 125 bushels of wheat per hour, and clean it well. It requires but little power to run it, very little attendance, and the waste of grain is but trifling. No reasonable consideration would induce us to part with the machine provided we could not obtain another of the same kind. It works to our entire satisfaction, and we have no hesitation in recommending it to the public."

BROOKS' PATENT BUGGY SPRING.—Directly opposite the entrance to the Pavilion may be seen a small model buggy which is attracting much attention, and the peculiar features of which are connected with the springs upon which the body of the miniature vehicle rests. The eliptical and other steel springs generally used, are here substituted by a simple arrangement of wooden bars, connected with shackles and attached to light spiral springs upon which the weight of the buggy and its load rests, with a large amount of leverage, which gives it great strength and much more elasticity than can be obtained from the springs ordinarily in use. By this device the weight of the load is made to bear at the point where the least strain is brought upon the body of the vehicle, and where it will be found most easy and convenient for the occupant. The spring is entirely concealed from view, and placed so as to render it much less liable to get out of order than those in common use, where numberless small irons and bolts are employed to keep the several parts in place. An attachment of light scroll work may be made to the wood work or braces, giving the vehicle an airy and elegant appearance. The construction of these springs is such as to admit of their carrying great weight. Any further information can be obtained by calling upon the patentee, at 39 Webb street, in this city.

CHANGE OF TIME.—The time of holding the next State Fair, has been changed from the 11th to the 18th of September.

San Francisco Metal Market.

PRICES FOR INVOICES.

(Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

SAN FRANCISCO, Aug. 18, 1865.

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1¼c ₱ lb; Sheet, polished, 3c ₱ lb, common, 1¼@1¾c ₱ lb; Plate 1½c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2½c ₱ lb.

Scotch and English Pig ₱ ton	37 @40
American Pig ₱ ton	36 @39
Refined Bar, bad assortment, ₱ lb	3 @—
Refined Bar, good assortment, ₱ lb	3 @—
Boiler No. 1 to 4	4 @ 4¼
Plate No. 5 to 9	4¼@—
Sheet No. 10 to 13	4 @—
Sheet No. 14 to 20	5 @—
Sheet No. 24 to 27	5½@—

COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb

Sheathing ₱ lb	30 @32
Sheathing, Old	25 @35
Sheathing, Yell	30 @32
Sheathing, Old Yell	12 @12
Bolts	— @—
Composition Nails	30 @32

TIN PLATES.—Duty: 2½c ₱ lb.

Plates, Charcoal, IX ₱ box	10 @11
Plates, I C Charcoal	9 @10¼
Roofing Plates	8 @ 9½
Banca Tin Slabs, ₱ lb	41 @42½
STEEL.—English Cast Steel, ₱ lb	12½@16
QUICKSILVER.—Per lb	— @65
For export	55 @—
ZINC.—Sheets ₱ lb	9½@10
LEAD.—Pig ₱ lb	6½@—
Sheet	10 @—
Pipe	10 @—
Bar	9½@10

The Mechanics' Institute

—OF THE—

CITY OF SAN FRANCISCO.

Organized March 29th, 1855.

Building of the Association

529 California Street.

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TERMS OF ADMISSION.—Shareholders' Membership, $5.00—quarterly Dues, $1.50. Subscribing Membership, Initiation Fee, $1.50—quarterly dues, $1.50.

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CLERKS—Robert Riddle, N. Hudson, J. H. Culver.

MUSIC—The Music at the Fair is furnished by WILLIS' BAND, composed of thirteen pieces.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and all other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Alpha, Gold Hill	$90		Aug 26—Sept 27
Alpha, Gold Hill			Special Meeting Aug 29
Arizona Copper, Arizona, 10c			Sept 16—Sept 30
Blue Ledge, El Dorado co			Annual Meeting Aug 28
Baltimore, Alpine co			Annual Meeting Sept 16*
Bolinas, Petroleum, Marin co., 25c			Aug 5—Aug 19
Bacon M. & M. Co., $10			Payable May 10
Burning Moscow, Storey co., $10			Aug 16—Aug 29
Belcher, Baldwin & Abernethy			Dividend of $17, June 3
Benicia Cement Co., $5			Aug 8—Aug 23
Blue Ledge, El Dorado co., $1.50			Aug 16—Aug 30
Baltimore American, Storey co., Nev., $5			Sept 5—Sept 19
Brennus, Lyon co., Nev			Special Meeting Aug 19
Camargo (Eclipse), Lander co. $5			Aug 19—Sept 6*
Chloride Ledge, Calaveras co., $1			Aug 19—Sept 2*
Cherokee, Echo District, 75c			July 29—Aug 22*
Confidence,			Dividend, $100 per foot May 1
Chollar, Storey co., Nev., $8½			Sept 18—Oct 2
Chipionena, Sonora, Mex., $5			Aug 26—Sept 8
Cosala, Sinaloa, Mex., $1 50			Aug 28—Sept 9
Cole, Storey co., Nev., $1			Sept 4—Sept 19
Coahortitu, Sinaloa, Mex., $5			Sept 1—Sept 12
Consolacion, Sinaloa, Mex., $2			Aug 30—Sept 11
Central, Storey co., Nevada, $5			Sept 6—Sept 26
Cordillera, Chihuahua, Mex., $2			Sept 10—Sept 23
Dardanelles, Del Norte co., 20c			Aug 5—Aug 19
Daney, Lyon co., Nev., $1.25			Aug 11—Aug 28
Emilia, Guerrera, Mex., 25c			Sept 16—Sept 30*
El Dorado, Alpine co			Annual Meeting Sept 16*
Eagle Quartz, Amador co, 75c			Sept 2—Sept 22*
El Tesora, La Paz, $1			Aug 14—Aug 25
Empire M. & M. Co			Dividend Payable Aug 10
Franco Americana, $1			Sept 12—Sept 25
Governor Nye, Alpine co			Annual Meeting Sept 7*
Geo. Washington			Annual Meeting Sept 18*
Great Western, Aurora, 10c			Aug 26—Sept 9*
Globe, Alpine co:			Annual Meeting Aug 21*
Golden Rule, Dividend			Payable Aug 20
Good Hope, Alpine co., 50c			Aug 12—Aug 26*
Geo. Washington, Alpine co., $1			Aug 12—Aug 26*
Gould & Curry			Dividend, $40 Aug 5
Guadaloupe, Chihuahua, Mex., $10			Levied June 26
Great Consolidated, Boise River, Idaho, 50c			Aug 21—Sept 1
Gov. Nye, Devil's Gate, Nevada $1			Sept 12—Sept 25
Great Basin			Special Meeting Aug 21
Hanscom Copper, Del Norte co., 15c			Aug 26—Sept 12*
Honest Miner, Lander co., 50c			Aug 26—Sept 12*
Halleck, Alpine co., 50c			Aug 26—Sept 9*
Halo & Norcross, Storey co., $25			Aug 7—Aug 21
Illinois, Alpine co			Annual Meeting Sept 19*
Imperatrice Eugenie, Calaveras co., 25c			Sept 2—Sept 19*
Imperial			Dividend Payable Aug 10
Jewett, Gold Hill, Nev. $1			Aug 19—Sept 2*
Jura, American Flag dist., Nevada, $1			Aug 28—Sept 9
Jeffrey, Oil, $25			Levied July 31
Bolinas, Marin co., 50c			Sept 16—Oct 2*
Kimbiln, Sierra co., $25			Sept 16—Oct 2*
Kentucky, Calaveras co			Annual Meeting Aug 23
Keystone, Calaveras co			Sale Sept 12
Leland, Arizona Territory, 25c			Sept 16—Oct 2*
Lady of the Lake, Arizona Territory 25c			Sept 16—Oct 2*
Lauchu Plana, Calaveras co			Annual Meeting Sept 6*
Lady Franklin, Alpine co., 50c			Sept 16—Oct 6*
Lord Byron, Devil's Gate, 50c			Aug 26—Sept 11*
La Victoire, Mariposa co., $3			Aug 12—Aug 28*
Lolus, Calaveras co., 15 cts			Aug 15—Sept 2
La Victoire, Mariposa co			General Meeting Aug 19
La Blanca, Sonora, Mex., 3.50			Aug 28—Sept 9
Lady Bell, Del Norte co., 10c			Sept 4—Sept 15
Mammoth, Alpine co			Annual Meeting Sept 9*
Mosquito Quartz, Calaveras co., $5			Aug 26—Sept 15*
Maggie, Lander co., Nev., $2			Aug 8—Aug 19
Mina Prieta			Adjourned Meeting Aug 26
Mina Rica de las Flores			Annual Meeting Aug 23
Napa, Alpine co			Annual Meeting Sept 12*
Nuestra Sen. de Guada'oupe, Durango, 50c			Sept 11—Sept 22
New Hope, Lander co., Nev. $1			Aug 14—Sept 2
North Star, Lander co., Nev. $11			Aug 10—Aug 25
Nonpareil, Tuolumne co., $2			Aug 21—Sept 9
Old Colony, Reese River, $5			Aug 26—Sept 11*
Ontario, Lander co., $1			Aug 22—Sept 4
Ontario, Lander co			Annual Meeting Sept 4
Paragon, Petroleum			Annual Meeting Sept 2*
Porter, Virginia, Nev. $5			Aug 26—Sept 9*
Potosi, Storey co., Nev., $25			Sept 18—Oct 2
Patrocina & Dolores, Chihuahua, Mex., 1.50			Sept 1—Sept 15
Petaluma M. & M. Co., Dividend of 5 ₱ cent			Aug 9
Paragon, Petrolcum, Humboldt co., 30c			Aug 5—Aug 19*
Peninsula, San Antonio, L. Cal., $10			Aug 28—Sept 12
Patrocina & Dolores			Annual Meeting Aug 28
Prima Dona, Devil's Gate, Nev			Annual Meeting Sept 6
Pennsylvania, Alpine co., $2			Sept 9—Sept 28
Rochester Cons, San Bernardino co., $1.25			Aug 16—Aug 28
Revenue, Lander co., Nev., $1			Aug 26—Sept 13
Rancheria, San Antonio, L. C. 40c			Sept 2—Sept 16
Refugio, Chihuahua, Mex., $2	$50		Sept 9—Sept 23
Santa Cruz Petroleum, Santa Cruz, 30c			Sept 16—Sept 30*
Santa Cruz Petroleum			Annual Meeting Sept 25*
Sierra Nevada, Alpine co			Annual Meeting Sept 12*
Silver Prize, Alpine co			Annual Meeting Sept 20*
Silver Creek, Alpine co			Annual Meeting Sept 19*
St. Clair, Smoky Valley, 50c			Sept 2—Sept 16*
Sheba, Humboldt co., Nev., $25			Aug 19—Sept 2*
Smoky Valley, Smoky Valley dist. $1.50			Aug 12—Aug 30*
Southern Light, R. R. 50c			Aug 19—Sept 6*
Simpson M & M Co., Alpine co., 60c			Aug 19—Sept 2*
Scott M & M Co., Humboldt co., Nev., 30c			Sept 9—Sept 25*
Sierra Nevada, Alpine co., 75c			Aug 12—Aug 26*
Savage,			Dividend, of $75 May 5
Santiago			Dividend May 17
Sacramento & Meredith, Storey co., 50c			Aug 4—Aug 19
Shoshone, Lander co, Nev., $1			Aug 7—Aug 21
St. Paul, Lander co., 50c			Aug 5—Aug 22*
Santa Cruz, San Antonio, L. C. $2			Aug 8—Aug 21
San Francisco, Del Norte co., 75cts			Sept 1—Sept 13
Sweet Vengeance, Yuba co., $1			Aug 19—Sept 4
Siempre Viva, Sinaloa, Mex., $2.50			Aug 29—Sept 9
Stanislaus Copper, Calaveras co			Annual Meeting Aug 21
Sierra, Douglas co., Nev., $2			Sept 8—Sept 29
Tip Top, Alpine co			Annual Meeting Sept 18*
Triunfo, San Antonio, $3			Aug 7—Aug 19
Tecorlpa, Sonora, Mex., $3.50			Aug 10—Aug 22
Tuolumne Mountain, 50c			Sept 13—Sept 23
United States, Lander co			Meeting Aug 24*
Union No. 2, Calaveras co., $1			Sept 9—Sept 23*
Vulcan, Lander co., 50c			Sept 16—Sept 30*
Wide West, Alpine co			Annual Meeting Sept 7*
Whitton, Alpine co			Annual Meeting Sept 5*
Wisconsin, Alpine co			Annual Meeting Sept 18*
Wisconsin, Alpine co. 1			Aug 26—Sept 9*
Whitlach Yankee Blade, Lander co., $10			Aug 26—Sept 12*
Whitlach, Lander co., $7.50			Aug 7—Aug 22
White & Murphy, Storey co., Nev			Annual Meeting Sept 5
Yosemite, Ore Finn dist., $1.25			Aug 5—Aug 19*
Yellow Jacket,			Dividend of $100 May
Yankee Blade, Lander co., Nev. $1			Aug 12—Aug 29

*These marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	*Date of Levy.*	*Am't per foot*
Alpha	July 25	360 00
American Flat Nevada	July 28	2 00
Baltimore American	August 4	5 00
Chrystal Peak Consol	July 30	2 00
Cole	August 6	1 00
Central	August 6	60 00
Globe	May 16	1 00
German	July 22	50
Hamilton	August 12	40
Imperial Consolidated	July 24	50
Jewett	July 22	1 00
Jura	July 28	1 00
Keystone	July 11	1 25
Lincoln	August 5	1 00
North Comstock	August 2	25
Nevada	July 25	10 00
Napoleon Consolidated	August 15	25
North American	August 12	10 00
Peak	August 10	1 00
Pi-nte Copper Co	August 11	1 00
Sides	July 18	10 00
Siegel	July 8	50
Union	July 28	25
Virginia & Truckee R R Co	July 16	200 00

Delinquent Sales.

Name of Company.	*Date of Sale.*	*Place of Sale*
Alaiiance	Aug 26	Virginia
Bullion	Aug 22	Virginia
Branch Mint	Sept 9	Virginia
Central Hawkeye	Sept 13	Gold Hill
Crœsus	Aug 23	Gold Hill
Globe	Aug 15	Virginia
Golden Swan	Aug 7	Gold Hill
Eastern Crown Point	August 26	Virginia
Hamilton	Sept 12	Virginia
Imperial Consolidated	Aug 22	Gold Hill
Independent	Sept 6	Virginia
Keystone	Sept 15	Virginia
Keystone	Aug 21	Gold Hill
Lincoln	Sept 6	Virginia
Mary Ann	Aug 12	Gold Hill
Napoleon Consolidated	Sept 25	Virginia
Opal	Aug 2	Virginia
Overman	Aug 18	Virginia
Peck	Sept 9	Gold Hill

North America

LIFE INSURANCE CO.,

No. 240 Montgomery Street,

SAN FRANCISCO.

The Most Liberal Company

IN THE UNITED STATES.

All Policies Non-forfeitable and Indisputable.

No Extra Charge for Residing in the Territories, or for Traveling to and from the Eastern States.

J. A. EATON & CO.,

Managers of the the Pacific Branch.

Canvassing Agents.

We would call attention to the following named agents of the MINING AND SCIENTIFIC PRESS as gentleman worthy of the countenance of any community which they may visit, and assistance rendered them in their efforts, by friends and old patrons, or our brethren of the PRESS, will be acknowledged as a personal favor to us:—

Mr. Robert Lattimore—Amador and Alpine counties and the State of Nevada.

Thos. Poyzer, of Grass Valley, for Nevada, Yuba and Sierra counties.

A MUSICAL TREAT.—Mr. Willis informs us that he will introduce some new and beautiful music on Saturday night. Among other things which are entirely new, will be a beautiful solo, played by Mr. James K. Kendall, the world renowned clarionet player, from Boston, the brother of Ned Kendall, the greatest bugle player that ever lived. Mr. Willis wishes the visitors to be seated, as many as can, and remain quiet for about five minutes, as a solo so rich and beautiful cannot be well played without perfect quiet. If order can be obtained, the solo will be played at half past nine o'clock.

San Francisco Stock and Exchange Board.

SAN FRANCISCO, August 19, 1865.

	Bid.	Asked.
United States 7 3 10ths	$ 74¼	$ 74¼
Gov. Legal Tender Notes	74¼	74⅛
State Bonds, 7 ₱ cent	80	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	..	..
San Francisco Bonds, 1858, 6 ₱ cent	83	70
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	50	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	..
Butte County Bonds, 10 ₱ cent	78	..
California Navigation Co	77½	80
State Telegraph Stock	20	32
San Francisco Gas Co	92½	04
Sacramento Gas Co	88	..
Spring Valley Water Co	50	50½
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	..	..
Central Railroad Co	..	..
North Beach and Mission	29¼	..
MINING STOCKS.		
Ophir	$ 389	$ 398
Gould & Curry	1475	1500
Empire M. & M. Co	425	450
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	1480	1400
Chollar	510	520
Potosi	470	475
Hale & Norcross	500	520
White & Murphy	....	....
Sierra Nevada	10	10
Yancy	....	....
Burning Moscow	34	35
Lady Bryan	5	5½
Sacramento & Meredith	....	....
Burnside	....	5
Iowa	....	....
El Dorado	....	....
North American	32	33
Baltimore American	15	20
Yellow Jacket	1340	1350
Overman	215	220
Cedar Hill Tunnel	....	....
Wide West	8½	7
Crown Point	1240	1250
Antelope	....	....
Emeralda	....	10
Aetna	....	....
Real del Monte	7	14
Silver Hill	....	....
Utah	....	....
Justice	15	25
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co	....	55
Mokelumne and Stanislaus	....	....
Shcba	....	....
De Soto	....	....
Pride of the West	....	....
Bulliou, G. H	164	....
Buckeye	....	....
Dick Sides	....	....
Imperial	268	270
Alpha	1400	1450
Bajazett	....	....

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 00 @ 5000
Do Superfine	5 00 @ 6 0
Corn Meal, ₱ 100 lb	3 00 @ 4 0
Wheat, ₱ 100 lb	1 50 @ 1 65
Oats, choice, ₱ 100 lb	1 50 @ 1 05
Barley, ₱ 100 lb	1 00 @ 95
Beans, ₱ lb	3 @ 4 00
Potatoes	85 @ 1 00
Hay, ₱ ton	10 00 @14 00
Live Oak Wood, ₱ cord	8 00 @10 00
Beef, on foot, ₱ lb	8 @ 10
Beef, extra, dressed, ₱ lb	16@ 22½
Sheep, on foot	1 00@ 2 00
Hogs, on foot, ₱ lb	8 @ 12
Hogs, dressed, ₱ lb	12 @ 15
Groceries, Etc.	
Sugar, crushed, ₱ lb	— @ 16
Do China	12½@ 13
Coffee, Costa Rica, ₱ lb	22 @ 23
Do Rio	22 @ 23
Tea, Japan, ₱ lb	85 @ 95
Do Green	70 @ 90
Hawaiian Rice, ₱ lb	10
China do	10 @ 12
Coal Oil, ₱ gal	1 25 @ 1 50
Candles, ₱ lb	10 @ —
Ranch Butter, ₱ lb	45 @ 50
Isthmus do	30 @ 32
Cheese, California, ₱ lb	20 @ 25
Eggs, ₱ doz	— @ 60
Lard, ₱ lb	23 @ 25
Ham and Bacon, ₱ lb	23 @ 25
Shoulders	15 @ 18

San Francisco Retail Prices Current.

Buttor, California fresh ₱ lb	55@ 60
do pickled ₱ lb	40@ 50
do Oregon	30@ 35
do New York, ₱ lb	30@ 35½
Cheese, ₱ lb	20@ 25
Honey, ₱ lb	40@ 50
Eggs, ₱ doz	55@ 80
Lard, ₱ lb	25@
Hams and Bacon, ₱ lb	20@ 25
Cranberries, ₱ gal	75@
Potatoes, sweet, ₱ lb	6@ 8
do Irish, ₱ lb	2@ 4
Tomatoes, ₱ lb	5@ —
Onions, ₱ lb	5@ 6
Apples, No. 1, ₱ lb	3@ 6
Pears, table ₱ lb	3@ —
Plums, dried, ₱ lb	10@ 15
Peaches, dried, ₱ lb	10@ 15
Grapes, Foreign, ₱ lb	20@ 40
Oranges, ₱ 100	2 50@ 3 00
Lemons, ₱ 100	5 00@ 6 00
Chickens, apiece	75@ 1 12

New Mining Advertisements.

Continued Mining Advertisements will be found on other pages.

Bollinas Petroleum Co., Bollinas Township, Marin county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of August, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the 16th day of August, 1865, in United States gold coin, to the Secretary, 611 Clay street, Room 8, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 2d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. L. KIRBY, Secretary.

Office, 611 Clay street, San Francisco. au19

Chloride Ledge Gold and Silver Mining Company. Location of Mine: Blue Mountain District, Calaveras county, California.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 11th day of July, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Boothby, W L	bal due on	2	40	$35 00
Crowell, G F		14	20	20 00
Hayden, John		7	20	20 00
Reynolds, R T	bal due on	3	30	15 00
Schultzer, R	bal due on	9	50	20 00
Williams, Franklin		27	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 11th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the auction salesroom of Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on the 21 day of September, 1865, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

R. H. SMITH, Secretary.

Office, No. 606 Montgomery street, San Francisco. au19

Camargo (Eclipse) Gold and Silver Mining Company, Reese River Mining District, Lander county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 17th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allen, H H	46	9	$45 00
Bradley, M W	14	9	45 00
Cutter, H F	83	45	225 00
Chevers, W H	47	8	30 00
Camp, Jas	72	5	25 00
Drinkhouse, J A	4	6	30 00
Drinkhouse, J A	8	3	15 00
Dall, John H,	49	6	30 00
Dinkelspiel, L	51	3	15 00
Francis, D B	62	6	30 00
Greene, S H	59	9	45 00
Heath, R W	58	11	55 00
Leppica, F	17	3	15 00
Leppien, F	84	6	30 00
Lauder, P C	18	6	30 00
Lander, P C	69	8	30 00
Landenberger, T E	21	3	15 00
Sharp, W H	51	6	30 00
Turner, A K	50	3	15 00
Williams, J J	40	3	15 00
Wightman, Jno	57	6	30 00

And in accordance with law and an order of the Board of Trustees, made on the 17th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 6th day of September, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT Secretary.

Office, 402 Front street, San Francisco. au10-3w

Emilia Mining Company, State of Guerrero, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of August, 1865, an assessment of twenty-five cents per share was levied upon the assessable stock of said company, payable on the 17th day of August, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, No. 55 Montgomery Block, in the city and county of San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, southeast corner of Montgomery and Washington streets. Office hours, 10 A. M. to 3 P. M.

San Francisco, August 16, 1865. au19

Jewett Gold and Silver Mining Company, Gold Hill, Storey county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 19th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Wm Fishell	18	50	$50 00
Joseph Napthaly	74	25	25 00
Joseph Napthaly	75	25	25 00
Joseph Napthaly	76	50	50 00
Joseph Napthaly	77	100	100 00
David Spence	94	2	2 00
J B Peirce	104	6	6 00

And in accordance with law, and an order of the Board of Trustees, made on the 19th day of July, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Maurice Doro & Co., at 627 Montgomery street, San Francisco, on Saturday, the 2d day of September, 1865, at the hour of 12 o'clock M of said day, to pay said delinquent assessment thereon together with costs of advertising and expenses of sale.

G. M. BURNHAM, Secretary pro tem.

Office, 509 Clay street, San Francisco. au10-3w

Kimblin Ravine Company, Sierra County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of August, 1865, an assessment of twenty-five dollars ($25) per share was levied upon the capital stock of said Company, payable on the 13th day of August, 1865, in United States gold and silver coin, to the Secretary, H. NIELSEN, 210 Front street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 2d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

H. NIELSEN, Secretary.

Office, 210 Front street, San Francisco. au19

Lady Franklin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of August, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the 21st day of August, 1865, in United States gold and silver coin to the Secretary, at his office, 303 Montgomery street, San Francisco, or to THOMAS PETERS, at the mine, at Silver Mountain, Cal

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 6th day of October, 1865, at the office of the Company, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, Rooms 5 and 5, San Francisco. au19

Leland Gold and Silver Mining Company.—Location of works: Mohave county, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 17th day of August, 1865, an assessment of 25 cents per share was levied upon the capital stock of said Company, payable on the 19th day of August, 1865, to the Secretary, at his office.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, October 2d, 1865, at 12 o'clock, M., to pay the delinquent assessment, together with costs of advertisment and expenses of the sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary.

Office, No. 302 Montgomery street, San Francisco. au19

Lady of the Lake Gold and Silver Mining Company—Location of Works: Mohave county, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 17th day of August, 1865, an Assessment of 25 cents per share was levied upon the Capital Stock of said Company, payable August 19th, 1865, to the Secretary, at his office.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 2d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary.

Office, 302 Montgomery street, San Francisco. au19

La Victoire Copper Mining Company—Office, No. 600 Merchant street, San Francisco.—Location of Works; Hunter's Valley, Mariposa county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Amy, V	228	2	6
Amy, V	282	5	15
Baldiner, L	not issued	142	25	75
Bailly, A		299	20	50
Hailly, A		301	5	15
Bailly, A		304	10	30
Barrett, Joseph		312	40	120
Bertrandias, Mrs F		313	50	150
Cael, H		161	375	1125
Cael, B		204	25	75
Cigogne, F		122	50	150
Cigogne, F		123	200	500
Combes, T		318	20	60
Combes, T		349	12	36
Combes, T		350	8	24
Dou, Joseph		144	20	60
Hueme, P		227	50	150
Largader, V		70	10	30
Largader, V		71	10	30
Largader, V		72	10	30
Largader, V		73	10	30
Largader, V		74	10	30
Largader, V		351	20	60
Largader, V		352	20	60
Largader, V		353	20	60
Largader, v		354	20	60
Largader, V		355	20	60
Pinet, J		25	150	450
Pinet, J		26	100	300
Pinet, J		27	125	375
Peelier, J		197	5	15
Paris, Louise		231	10	30
Paris, Madame A		235	5	15
Paris, Madame A		236	20	60
Paris, Madame A		237	20	50
Paris, Madame A		238	20	60
Paris, Madame A		239	20	60
Paris, Madame A		240	20	60
Paris, Madame A		241	10	30
Paris, Madame A		242	10	30
Picche, F L A		300	50	150
Queirolo, Jas		277	17	51
Touchard, Gustave		189	25	75
Touchard, Gustavo		193	25	75
Touchard, Gustavo		194	25	75
Touchard, Gustave		221	10	30

And in accordance with law and an order of the Board of Trustees, made on the tenth day of July, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of Cobb & Sintoa, auctioneers, No. 405 Montgomery street, San Francisco, California, on the twenty-eighth (28th) day of August, 1865, at the hour of twelve o'clock, noon, of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

G. FRANCIS PETRARCHI, Secretary.

au19-td Office, No. 606 Merchant st.

Lancha Plana Copper Mining Company, Campo Seco District, Calaveras county, California.

The Annual Meeting of the stockholders of the above Company will be held on Wednesday, the 6th day of September, 1865, at 10 o'clock A. M., at the office of the Company, No. 326 Clay street, San Francisco.

au12 J. FULLER, Secretary.

Nevada Gold and Silver Mining Company Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of August, 1865, an assessment of fifty cents per share, was levied upon the capital stock of said Company, payable on the 19th day of August, 1865, in United States gold and silver coin, to the Secretary, 402 Front street, San Francisco

Any stock upon which said Assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 6th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street (up stairs), San Francisco. au19

Santa Cruz Petroleum Oil Works Company—Location: Santa Cruz County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of August, 1865, an assessment (No. 13) of thirty (30) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, R. WEGENER, 415 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. WEGENER, Secretary.

Office, 415 Montgomery street, San Francisco, Cal. au19

Santa Cruz Petroleum Oil Works Company—Location: Santa Cruz county, California.

The third Annual Meeting of the stockholders of the above Company will be held at their office, 415 Montgomery street, San Francisco, California, on Tuesday, the 25th day of September, 1865, at 8 o'clock P. M., for the purpose of electing Trustees to serve for the ensuing year and such other business as may properly come before it.

LEANDER RANSOM, President.

R. WEGENER, Secretary.

N. B.—All stockholders who cannot be present are earnestly requested to file their proxies with the Secretary. au13

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lauder County, Nevada.

NOTICE.—There are delinquent on the following described stock, on account of assessment (No. 8) of fifty cents per share, levied on the 15th of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Allen, H H	178	4 1-16	2 04
Cutter, H F	90	35	17 50
Fassett, N C	33	2	1 00
Greene, Saml H	29	2	1 00
Hardy, Jas H	Bal 51	7½	3 75
Titus, A E	156	7	3 50
Work, Geo	Bal 69	5½	3 25

And in accordance with law and an order of the Board of Trustees, made July 15th, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at the office of the Company, No. 223 Front street, San Francisco, Cal., by Jones & Beadixen, auctioneers, on Wednesday, September 6th, 1865, at 3 o'clock P. M., to pay the delinquent assessment, together with costs of advertising and expenses of the sale.

E. J. DRINKHOUSE, Secretary.

Office, No. 223 Front street, San Francisco, Cal. au12

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 8th day of July, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Denio, W S	no cert. issued	100	$60 00
Rand, C W	no cert. issued	100	60 00

And in accordance with law, and an order of the Board of Trustees, made on the 8th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, Cal., on the 2d day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

T. B. CUNNINGHAM, Secretary.

Office, 55 Montgomery Block, San Francisco. au19-3w

Vulcan Mining Company, Santa Fe Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of August, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner of Clay and Front street, San Francisco, Cal. au19

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Mining Engineer and Metallurgist,

Address - - - - - San Francisco.

25v9

W. O. ANDREWS,

NOTARY PUBLIC,

—AND—

Commissioner of Deeds for the State of Nevada and the Territory of Arizona,

AND FOR THE

STATES OF MASSACHUSETTS AND MAINE.

Office, Montgomery Block, 626 Montgomery Street, 10v8-2m SAN FRANCISCO.

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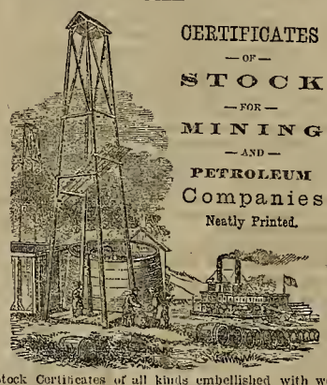

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Mantels, Monuments, Tombs, Plumbers' Slabs,

Etc., On hand and Manufactured to order.

☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

NATHANIEL GRAY,

General Furnishing Undertaker,

641 Sacramento St., corner of Webb, San Francisco.

Barstow's Metallic Burial Caskets and Cases.

1tf

THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

No. 418 Market street, San Francisco. n7-tf

Palmer's Patent

ARTIFICIAL LEG,

Manufactured in Philadelphia, Penn.

JARVIS JEWETT, AGENT.

629 Washington Street, San Franc l. 10v8-1m

Wanted.

GOLD QUARTZ

Suitable For Cutting Jewelry,

By **FRONTIER & DEVIERCY,**

19v10-2m 437 Pine street, San Francisco.

NOTICE TO MINERS.

THE UNDERSIGNED WILL SELL

MINING STOCK

In Incorporated Companies and Unincorporated Mines, in San Francisco District and in El Dorado District, Arizona Territory. It is confidently asserted and believed by most practical miners that Arizona is the richest mining country in the world. Recent developments of these mines are now attracting the attention of capitalists, who have already erected several mills, and more are going there soon. Now is the time to invest to advantage, and obtain the rise that must soon follow. Those wishing to purchase soon can do so, on most liberal terms, by calling on MR. RODNEY CLARK, 338 Montgomery street (room No. 11), San Francisco, or on H. C. SKINNER, San Jose, California.

N. B.—Freight all the way by water at a cost of 4½ cents per pound.

H. C. SKINNER,

San Jose, California.

San Francisco, April 27, 1865. 17q10

Metallurgy.

EUROPEAN METALLURGICAL WORKS,

—AND—

Practical Mining School,

Bryant Street, Between Third and Fourth,

SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. KIMBALL, J. R. MURPHY.

10v10

NOTICE

—TO—

COPPER MINING COMPANIES.

The undersigned offer their services for the construction and working of

Furnaces of the most approved form

And on the most economical principle,

For the reduction of COPPER ORES. For further information apply at the office of the CALIFORNIA COPPER SMELTING COMPANY, No. 510 Clay street (office No. 4), San Francisco.

5v11-tf **R. EMERSON & CO.**

FIRST PREMIUM

FOR REFINING COAL OIL,

At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor B. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,

17v10 643 Third Street, bet. Brannan and Townsend.

To Prospectors.

THE Directors of the San Francisco PACIFIC METALLURGICAL WORKS offer the following inducements to Prospectors:

NOTICE.—Knowing it will benefit our country to have it well prospected, we agree, if any party will forward us samples of minerals of any kind for assay, express paid, inclose TWO DOLLARS for the same, to return them a correct assay, with the best method of working, and feasibility of having the same worked in this city.

WORKS—North Beach. OFFICE—511 Sacramento street. Box 511, Post Office, San Francisco. [v9-20tf

ASSAYERS

Desirous to commence an ASSAY OFFICE in the mines may buy, at a very low figure, in a prosperous mining county, a complete set of Assaying Apparatus, Scales, Chemicals, and everything necessary to carry on said business. Apply to Lock Box No. 782, Postoffice, San Francisco, stating name and where an interview may be had. 17v10

WILLIAM PENROSE,

Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,

Is prepared to buy in any quantity

COPPER, SILVER, GOLD, LEAD

AND OTHER VALUABLE ORES;

Also Lead Bars Containing Gold and Silver,

☞ Full value paid on delivery in this City. ☜

Address Lock Box No. 922, P. O., San Francisco. 25v10

Copper, Lead, Gold, Silver,

Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,

Agent for Townshend, Wood & Co., Swansea,

No. 416 Battery Street, San Francisco.

15v10-3m

ORES WANTED.

Gold, Silver and Lead Ores Purchased,

OR WORKED BY SMELTING OR AMALGAMATING,

At my Metallurgical Works in the City

Assay Charges for Ore.....Only $2.50

Apply to **J. MOSHEIMER,**

14v10-1m 338 Montgomery Street, San Francisco

MARTIN & CO.,

Office, Stevenson House,

Corner California and Montgomery streets (up stairs).

WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES,

Assaying eight per cent. and upwards of Copper to the ton.

We will make advances upon Ores of Copper.

San Francisco, Post Office Box 1259, 22v10

SANTA CLARA COLLEGE, S. J.,

SANTA CLARA, CAL.

Conducted by the Fathers of the Society of Jesus.

The FIFTEENTH ANNUAL SESSION of this College will commence on

Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $250

For further information and catalogues, apply to the President of the College, or to Rev A. Maraschi, St. Ignatius College, Market street, San Francisco.

3v11 REV. A. MASNATA, S. J., President.

SAN JOSE INSTITUTE

—AND—

COMMERCIAL COLLEGE,

LOCATED AT SAN JOSE, CAL.

MALE AND FEMALE.

The next session of this Institution will commence on

Monday, July 31, 1865.

An experienced and competent BOARD OF INSTRUCTION is engaged, and every facility will be afforded for a thorough course of study, both in the Academic and Commercial Departments.

Catalogues, containing full particulars, furnished upon application to F. GATES, Director,

25v10-3m San Jose, Cal.

BLASTING POWDER.

EDWARD H. PARKER,

No. 224 California Street,

Agent of the

Hazard Powder Company.

EUREKA PATENT BLASTING POWDER,

Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets.

Room No. 9, with San Francisco Chemical Works,

CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2v1qy

PREMIUMS.

1st Premium, at Sacramento Fair.....1862

1st Premium, at S. F. Bay District....1862

1st Premium at Sacramento.....1863

1st Premium, at San Francisco.....1864

1st Premium, for Cordials.....1864

1st Premium, for Hygienic Bitters....1864

Awarded to

V. SQUARZA.

GEORGE T. PRACY,

Machinist and Blacksmith.

STEAM ENGINE, FLOUR AND SAW MILL And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

Nos. 109 and 111 Fremont street, near corner of Mission, OPPOSITE MECHANICS' MILL,

qy-3 SAN FRANCISCO.

LEWIS COFFEY. J. S. RISDON.

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

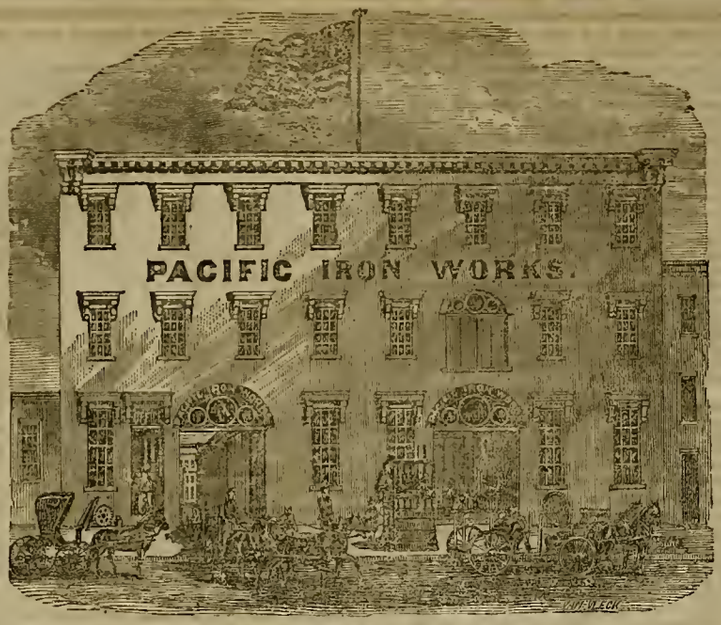
Constitution and By-Laws

—OF—

Mining and Prospecting Companies

Elegantly printed, with care and dispatch, at the office of the **Mining and Scientific Press.**

☞ Orders from the interior faithfully attended to. Packages which can be judiciously sent by mail will be prepaid our expense.



THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting machinery of the most approved construction, Flour, Saw and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Brynn Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully solicited.

GODDARD & COMPANY.

Machinists and Foundries.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.

UNION IRON WORKS!

Corner First and Mission streets,

SAN FRANCISCO.

ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.

Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter.

Boilers.

Locomotive, Flue, Tubular, Upright, Cylinder and Cornish.

Amalgamating Machinery.

Wheeler & Randall's Improved Tractory Curve Pan, Zemas Wheeler's Improved flat bottom pan, Beldin's pan, Veatch's tubs, Frater's concentrators, Wahlee's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills, Coleman's Crushers, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Morturs, Cams, Pans and Tubs.

Quartz Screens.

We are prepared to furnish both punch and slotted, from the finest to the coarsest numbers, of the best quality Russia Iron.

All work done in the best manner at the lowest cash prices.

21v10 **H. J. BOOTH & CO.**

MINERS' FOUNDRY

—AND—

MACHINE WORKS,

First St., between Howard and Folsom Streets,

SAN FRANCISCO.

EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as

Steam Engines and Boilers, Flour, Saw and Quartz Mills,

Machinery, Mining Pumps, Amalgamators,

Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.

All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.

tf HOWLAND, ANGEL & KING.

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

Nos. 311 and 313 Mission street, San Francisco.

All kinds of HIGH AND LOW PRESSURE BOILERS built according to drawing or specification, and sheet-iron work executed at the shortest notice, on the most reasonable terms. 1df

T. J. MOYNIHAN, J. AITKEN.

Vulcan Iron Works Company

[ESTABLISHED 1850.]

First, Natoma and Fremont Streets.

IRON FOUNDERS,

Steam Engine and Locomotive BUILDERS,

Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as

Mining, Steamship, and Steamboat Machinery,

Railroad Machinery, Locomotives, Car Trucks, Car Wheels, Flouring Mills, Quartz Mills, Sugar Mills, Saw Mills, Housings and Irons; and

Manufacturing Machinery of Every Kind.

Sole Manufacturers of

HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR

BETH'S AMALGAMATOR;

HERSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;

BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;

FAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;

JONVAL'S IMPROVED WATER WHEEL;

STEVEN'S PISTON PACKING RINGS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.

Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

PALMER, KNOX & CO.,

Golden State Iron Works,

Nos. 19, 21, 23 and 25 First Street,

SAN FRANCISCO.,

MANUFACTURE ALL KINDS OF

MACHINERY,

STEAM ENGINES AND QUARTZ MILLS

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S

NEW GRINDER AND AMALGAMATOR,

HEPBURN & PETERSON'S

AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies.

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 15v10qy-tf

SAN FRANCISCO Foundry and Machine Works,

N. E. Cor. Fremont and Mission streets,

Manufacturers of

Marine and Stationery Enginss,

Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.

—ALSO—

Wine, Cider, Cotton and Tobacco Presses

of the latest Improved Patterns.

Brodie's Improved Patent WIND BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Baux & Guiod's Amalgamator and Separator; W. W. Tupper's Patent Sectional Grate Bar; Coal Oil Well Boring Machinery complete, on hand.

STEAM ENGINES AND BOILERS,

Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.

MACHINERY, OF ALL DESCRIPTIONS,

Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates. 6v11-1y

DEVOE, DINSMORE & CO.

FULTON FOUNDRY AND IRON WORKS.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

NOVELTY IRON WORKS,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY*. Send for a Circular.

E. T. STEEN.

39 and 41 Fremont, and 42 and 44 Beale Sts.,

SAN FRANCISCO 21v9tfa

D. E. CAMERON, W. F. WORTH.

NEPTUNE IRON WORKS,

Corner of Mission and Fremont streets, San Francisco.

Marine, Locomotive, and all kinds of HIGH PRESSURE STEAM BOILERS made. All boilers guaranteed and tested by U. S. Boiler Inspector before sent out of the Shop, at shop expense. All kinds of Sheet Iron and Water Pipe, and repairing of old boilers. 1df

UNION IRON WORKS, Sacramento.

WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Front Street, between N and O streets,

6v10 SACRAMENTO CITY.

JOHN LOCHHEAD'S STEAM ENGINE WORKS,

Beale Street, near Mission Street,

SAN FRANCISCO.

Steam Engines of every description built to order—Marine, Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer.

JOHN P. GALLAGHER. JOSEPH WEED.

GALLAGHER & WEED, BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to. Prices moderate. ☜

No. 125 First street, opposite Minna, next door to Pacific Foundry. 3tf

[Removed from Oregon street, between Front and Davis.]

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, San Francisco. qy29-t

NEW USE FOR A SODA FOUNTAIN.—Mr. Frink has claimed for his recent improvement on the Soda fountain, that he could make it propel machiuery; and to redeem his word has introduced on his counter, in the Pavilion of the Fair, a neatly constructed miniature steam engine, with a pipe attachment to his apparatus, and when the gas is let into its cyl inder the motion of the machinery is rapid and perfect. The fountain itself has, from the beginning of the Fair, been a great object of attraction, which is now vastly increased by this new and novel feature.

Mining Notices--Continued.

☞ *New Mining Advertisements to be found on another page.* ☜

Baltimore Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 16th, 1865, at 10 A. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Bolinas Petroleum Company, Bolinas Township, Marin County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 30th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Baxter, E H	11	50	$12 50
Borker & Rosenfield	20	100	25 00
Colwell, Jess.	15	50	12 50
Holden, Wm	13	50	12 50
Haxe, J G	18	50	12 50
Ingram, R	17	50	12 50
Rowe, E S	19	100	25 00
Thompkins, T B	8 9	50	12 50

And in accordance with law and an order of the Board of Trustees, made on the 5th day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the Company's office, No. 611 Clay street (Room 8), on the 19th day of August, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. L. KIRBY, Secretary.

Office, 611 Clay street, San Francisco. au5-3w

Cherokee Gold and Silver Mining Company, Echo District, Humboldt county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 23d day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
J R Colburn	104	40	$30 00
J R Colburn	105	18	13 50
J R Colburn	106	15	11 25
J R Colburn	108	10	7 50
J R Colburn	109	5	3 75
J R Colburn	110	2	1 50
G Chittendeu	8	5	3 75
— Washburn	10	25	18 75
J P Spaulding	11	55	41 25
C Viets	52	80	60 00
G T Sewall	16	25	18 75
J H Gager	18	25	18 75
M W Lake	24	25	18 75
N B Terwilliger	28	5	3 75
S Peneton	29	1	75
S Howard	30	2	1 50
V Baron	31	10	7 50
S A Audorson	33	1	75
R Gardner	50	10	7 50
J B Murphy	98	25	18 75
O A Wager	90	5	3 75
H Powell	89	5	3 75
H Borstman & Co	92	4	3 00
Joseph Dardann	96	15	11 25
S W Raveley	111	4	3 00
E Chevassus	209	554	415 50
T Ogg Shaw	94	3	2 25
T Ogg Shaw	95	3	2 25
T Ogg Shaw	103	75	56 25
Wm Troop	26	28	21 00
Wm Troop	60	20	15 00
Wm Troop 56 67 59 60 65			
66 71 72 73 74 75			
76 77 78 79 80 81			
82 83 84 85 86 25 on	550		412 50
Wm Troop	210	51	38 25
A K Colburn	5 67 25 ea	50	37 50
A K Colburn	6 87 88 5 ea	15	11 25
A K Colburn	91	2	1 50
A K Colburn	97	10	7 50
A K Colburn	69	20	15 00
J L Dawns	34 35 36 37-10 ea	40	30 00
J L Dawns	33	15	11 25
L Francoui	206	554	415 50
L Francoui	208	446	334 50
W S Emory	39	100	75 00
W S Emory	40 41 42 10 ea	30	22 50
W S Emory	43	5	3 75
W S Emery	45	6	4 50
W S Emery	46	7	5 25
W S Emery	48	3	2 25
W S Emery	49	2	1 50
M H Fry	99 100 25 ea	50	37 50
M H Fry	101	20	15 00
M H Fry	102	5	3 75
M H Fry	114	4	3 00
W Brokaw	119 120 121 122 25 ea	100	75 00
W Brokaw	123	19	14 25

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Doro & Co., No. 327 Montgomery street, San Francisco, Cal., on Saturday, the 12th day of August, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

L. FRANCONI, Secretary.

Office, northeast corner of Montgomery and Jackson streets (Room No. 16), San Francisco. jy29-3w

POSTPONEMENT.—The above sale is hereby postponed until Tuesday, August 22d, 1865, at the same hour and place. By order of the Board of Trustees.

L. FRANCONI, Secretary.

San Francisco, August 4th, 1865. au5

El Dorado Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 16th, 1865, at 2 P. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Eagle Quartz Mining Company, Amador County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 29th day of July 1865, an assessment of seventy-five (75) cents per share was levied upon the capital stock of said Company, payable on the 31st day of July, 1865, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 22d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

G. PARDOW, Secretary.

Office, 15 Montgomery Block, San Francisco, au5

George Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent, upon the following described Stock, on account of Assessment levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allred, W C	21	15	$15 00
Allred, W C	22 23 25 26 27 10 ea	50	50
Allred, W C	not issued	44¼	44 75
Adams, J S	240	5	5
Beard, C M	not issued	1	1
Berry, H	not issued	5	5
Booker, W Lano	212	10	10
Botts, John	246	1	1
Baily, R	234	1	1
Boggs, G W	not issued	6	6
Christianson, Phil	165	5	5
Christianson, Phil	167	9	9
Christianson, Phil	168	10	10
Christianson, Phil	20	15	15
Cornwell, J F	40 41 42-10 ea	30	30
Cornwell, J F	43	9½	9 50
Curtis, E D	250	10	10
Curtis, E B	not issued	1	1
Capell, B	201	5½	5 50
Coulter, Samuel	271	10	10
Christianson, O & B	not issued	2½	2 33
Douk, David	not issued	1	1
De Graff, Wm	70 71 10 ea	20	20
Davidson, Dan'l	not issued	14	14
Dement, David	220	10	10
Dement, David	221 222 5 ea	10	10
Davidson, Wm	not issued	1	1
Egan, E D	not issued	2	2
Ellsworth, O F	not issued	1	1
Francis, J H	204	10	10
Francis, J H	157 207 257 5 ea	15	15
Foster, Howard	194	5	5
Gullickson, L	87	7½	7 50
Griffith, W P	226	10	10
Griffith, W P	227 228 5 ea	10	10
Graham, T B	not issued	1	1
Grigsby, A F	215	6	6
Gilbert, S W	264	10	10
Gilbert, S W	265	5	5
Hastings, D L	not issued	23½	23 50
Hawkins, Mary	not issued	19⅔	19 67
Hill, V R	not issued	14½	14 50
Hayward, C G	122	5	5
Hammet, Ed W	318	10	10
Harmon, Wm	289	6	5
Ingalls, Miles	262	4	4
Ingalls, Miles	263	5	6
Isbell, J C	307	10	10
Johnson, Armon	not issued	6	6
Johnson, Andrew	272	9½	9 50
Jones, Wm	223 285-10 ea	20	20
Jones, Wm	224 225 273 274-5 ea	20	20
Justice, J D	306	5	5
Knight, T	not issued	½	50
Klepsig, J C E	91	4	4
Kelcheval, S A	3 3	10	10
Larson, C	16	5	5
Lee, O N	not issued	9⅔	9 67
Love, Alfred	not issued	13	13
Lewis, F R	not issued	1	1
Lindan, Arnold	192	5	5
Lachman, Louis	53	10	10
Marshall, J C	30 not issued-10 ea	20	20
Marshall, J C	31	6	6
Mead, James A	33	10	10
McCorkle, King	74	10	10
McLea, Donald	not issued	1	1
Morrison, James	144	5	5
McKlenberg, J	165	5	5
Mason, Chas	211	5	5
Miller, John	254	5	5
Marks, M	286	5	5
McGovern, P H	300 305-5 ea	10	10
McClen, J A	304	10	10
Mudgett, John	121 321 5 ea	10	10
Pearsou, J N	261 114 115 163-5 ea	20	20
Pearson, J N	128	10	10
Pearsou, J N	129	15	15
Palache, E	97 215-5 ea	10	10
Palache, E	284	10	10
Stevens, Geo	83	15	15
Stevens, Geo	217	5	5
Squanza, V	107	5	5
Smith, C	not issued	24½	24 25
Smith, John	183	13⅔	13 67
Swinnerton, D E	not issued	1	1
Senter, Riley	2 3	20	20
Trapp, A	153	4½	4 25
Tythor, Richard	256	2	2
Vick, J	296	10	10
Wallace, P R	not issued	1	1
Whitton, C J	76	10	10
Wines, Chas B	120	5	5
Whitton, Creen	126 127 5 ea	10	10
Winnie, Matt	not issued	9½	9 50
Winnie, J P	188	10	10
Winnie, J P	189	8	8
Winnie, J P	190	2	2
Winnie, Mrs E J	186 187-6 ea	10	10
Whithy, Wm	266	6	6
Williamson, John	231		5
White, J E	235	6	5
Wakolee, C H	not issued	3	3
Walsb, Martin	290	6	5
Walsh, Martin	291	4½	4 50
Whitton, Wm H	339	40	40
Whitton, Wm H	332 333 334 5 ea	15	15
Whitton, Wm H	25 330 331-10 ea	30	30
Whitton, Wm H	78	12	12
Whitton, Wm H	not issued	15⅓	15 33

And in accordance with law, and an order of the Board of Trustees, made on the 10th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction at the salesroom of Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, on the 26th day of August, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.

Office, 410 Montgomery street, San Francisco. Aug12

Good Hope Gold and Silver Mining Company, Alpine District, Alpine County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Oscar McDowell	54	5	$2 50
E S Denison	330	5	2 50
M Weil	100	10	5 00
Geo Lowe	1-2	10	5 00
Peter Boyle	124	10	5 00
John B yle	147	15	7 50
John B yle	203	20	10 00
Jas F Doyle	148	10	5 00
Charles Dudley	170	5	2 50
E Gaucing	171	5	2 50
M T Groenveld	198	5	2 50
S Kimmel	202	5	2 50
Mrs A L Marsdon	215	5	2 50
W Barright	209	10	5 00
J Nelson	259	5	2 50
J R Cook	254	10	5 00
L E Chevalier	277	5	2 50
C P Coff	286	10	5 00
C P Goff	287	5	2 50
W H French	289	20	10 00
W H French	291	5	2 50
C Malherbe	295	3	1 50
W Penner	308	5	2 50
H J Olds	330	5	2 50
Henry Weinrich	320	5	2 50
Chas W McFarland	335	5	2 50
J Q Smith	205	5	2 50

And in accordance with law and an order of the Board of Trustees, made on the 10th day of July, 1865, so many shares of the parcel of said Stock as may be necessary, will be sold at public auction at the Office of the Company, No. 525 Montgomery street, San Francisco, on the 26th day of August, 1865, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

PRESTON MORRIS, Secretary.

Office, 525 Montgomery street, San Francisco. ag12

Great Western Tunnel and Mining Company, Aurora, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 27th day of July, 1865, an assessment of ten (10) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

JOS. C. FORD, Secretary.

Office, No. 20 Exchange Building, corner Washington and Montgomery streets, San Francisco. jy29

Office of the Globe Gold and Silver Mining Company, San Francisco.—Location: Monitor Mining District, Alpine county, California.

NOTICE.—There will be an Annual Meeting of the stockholders of the Globe Gold and Silver Mining Company, at the office of said Company, 410 Montgomery street, in the city and county of San Francisco, on the 21st day of August, 1865, at 2 o'clock P. M., for the purpose of electing Trustees and for the transaction of such other business as may be brought before the stockholders.

LEVI MILLER, President.
WM. HANNAH, } Trustees.
jy22-4w J. S. POWERS, }

Governor Nye Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tbursday, September 7th, 1865, at 10 o'clock A. M. of said day.

au12-4w 1. S. BROWN, Secretary.

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on September 17th (Sunday)—changed to Monday, September 18th, 1865, at 2 P. M. of said day.

au12-4w W. D. ROOT, Secretary.

Hanscom Copper Mining Company, Low Divide District, Del Norte County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 25th day of July, 1865, an assessment of fifteen (15) cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 12th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

S. S. SWEET, Secretary.

Office, 609 Market street, San Francisco. jy29

Halleck Gold and Silver Mining Company—Location of Works: Great Mogul Mining District, county of Alpine, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of July, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 311 Commercial street, San Francisco, or to M. Scott, Mogul, Alpine county, Cal.

Any stock upon which said assessment shall remain unpaid on the 12th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 26th day of August, 1865, to pay the delinquent assessment, together with the costs of advertising and expenses of the sale.

H. B. FORESTER, Secretary.

Office, 311 Commercial street, San Francisco. jy15

POSTPONEMENT.—At a meeting of the Board of Trustees of the Halleck Gold and Silver Mining Company, held on the 10th day of August, 1865—*Ordered*, That the publication of sale of delinquent stock on Assessment No. 7, levied July 5th, 1865, be postponed to August 26th, 1865, and the day of sale to September 9th, 1865, and that the same be published in the Mining and Scientific Press.

au12 H. B. FORESTER, Secretary.

Honest Miner Gold and Silver Mining Company, Reese River Mining District, Lander Co., Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of July, 1865, an assessment (No. 5) of fifty cents per share was levied on the 22d day of July, 1865, upon the capital stock of said Company, payable immediately, in gold coin of the United States, to the Secretary, at his office, No. 223 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 12th day of September, 1865, at 3 o'clock P. M., to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. jy2J

Imperatrice Eugenie Gold and Silver Mining Company—Location of Works: Blue Mountain Mining District, County of Calaveras, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 1st day of August, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 304 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 2d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 19th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

A. KOENIG, Secretary.

Office, 301 Montgomery street, San Francisco au5

Illinois Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 19th, 1865, at 10 A. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

La Libertad Gold and Silver Mining Company, Cacachillas District, Lower California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 27th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Samuel Pillsbury	35	20	$10 00
Samuel Pillsbury	37	20	10 00
Samuel Pillsbury	38	20	10 00
Samuel Pillsbury	39	10	5 00
Samuel Pillsbury	40	10	5 00
Samuel Pillsbury	41	10	5 00
Samuel Pillsbury	42	10	5 00
H L Chamberlain	142	90	45 00
Richard Coppithorne		5	2 50
John Eade	52	40	20 00
E Sawin	124	6	3 00
C Clark	32	5	2 50
A H Jordan	160	20	10 00
Clark Avery	164	5	2 50
E M Mallory	172	65	32 50
H L Chamberlain	not issued	32	15 00

And in accordance with law, and an order of the Board of Trustees, made on the 27th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the salesroom of Edwards, Olney & Co., 626 Montgomery street, San Francisco, on Monday, the 21st day of August, 1865, at the hour of 2 o'clock P. M, of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

WM. VALE, Secretary.

Office, 36 Exchange Building, northwest corner of Washington and Montgomery streets, San Francisco. au5 3w

Lord Byron Gold and Silver Mining Company, Devil's Gate District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of July, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 29th day of July, 1865 in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

H. B. CONGDON, Secretary.

Office, No. 520 Washington street (Room 5), San Francisco, California. jy29

Mosquito Quartz Mining Company, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22d day of July 1865, an assessment of five ($5) dollars per share (one dollar per foot), was levied upon the capital stock of said Company, payable on the 24th day of July, 1865, in United States gold coin, to the Secretary, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 15th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. PARDOW, Secretary.

Office, 15 Montgomery Block, San Francisco. jy29

Mammoth Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 9th, 1865, at 2 P. M. of said day.

au12 4w J. WARREN CLARK, Secretary

Napa Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 12th, 1865, at 10 A M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Napa Gold and Silver Mining Company,
Silver Mountain District, Alpine county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 24th day of June, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Allred, W C	not issued	190	$57 00
Adams, J S	78	5	3 00
Avery, J W	121	25	10 00
Arnold, Mrs B W	45	5	1 50
Berry, Geo	68	25	15 00
Berry, Geo *	not issued	93½	56 00
Badger, Geo	69 70 71 72-5 ea	20	10 00
Bartlett, S A	73	10	5 00
Bartlett, S A	190	5	3 00
Bohlinger, Francis	75	5	3 00
Barker, E M	135	5	3 00
Boyd, J T	141	50	24 60
Boyd, J T	142	18	10 80
Bachard, J C M	186	1	60
Coon, M R	not issued	35	21 00
Carlisle, H J R	142	16⅔	5 00
Darnes, Mrs E A	47	10	6 00
Davis, Solon R	133	5	3 00
DeGraff, Wm	42	10	3 00
Egan, E D	159	5	3 00
Egan, E D	160 161 162	—	—
	163 104 165-10 ea	60	36 00
Egan, E D	not issued	78¼	47 00
Eagles, Wm C	174	5	3 00
Ford, R H	126 127 128 129-5 ea	20	12 00
Ford, R H	155	2	1 20
Folker, Wm	184	5	3 00
Hawkins, H J	2	50	30 00
Hawkins, H J	5	10	5 00
Hargrave, K J	22 19-5 ea	10	6 00
Hay, Thomas	33 34 35 36		
	37 38 39 40-10 ea	80	48 00
Hulre, Samuel	143	25	15 00
Hollie, Robert	183	5	3 00
Hull, Wm	188	5	3 00
Hanson, Iver	189	5	1 50
Kirk, Charles	not issued	100	30 00
Larson, C	8 10 20 ea	40	24 00
Larson, C	12 13 10 ea	20	12 00
Larson, C	not issued	35	21 00
McCormack, Jas	not issued	84	50 40
McMillan, Robert	51	5	3 00
Phillips, S S	108	15	6 50
Preston, J H	185	5	3 00
Robinson, I S S	58	5	2 00
Rhodes, Isaac	113 114 115		
	116 117-10 ea	50	30 00
Slaven, John	30 31-10 ea	20	10 00
Slaven, John	32	13	7 80
Stephens, Andrew	119	10	6 00
Townsend, Sarah	168	3	1 80
Victor, H C	177	10	6 00
Wheeler, W J	123	20	11 00
Wheeler, W J	not issued	150	90 00
Whitton, R J	46	5	3 00
Whitton, R J	98	10	6 00
Whitton, Wm H	99	25	15 00
Whitton, Wm H	102 103 106-5 ea	15	8 50
Whitton, Wm H	107	2¼	1 50
Waterman, E R	136	5	3 00
Winn, M	172	10	6 00
Winthrop, M W	173	10	6 00
York, E M	202	1	60

And in accordance with law, and an order of the Board of Trustees, made on the 24th day of June, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Messrs. Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, on the 19th day of August, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. WARREN CLARK, Secretary.

Office, 410 Montgomery street, San Francisco. au5-3w

Old Colony Silver Mining Company, Austin,
Reese River Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of July, 1865, an assessment of 6vo ($5) dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 523 Montgomery street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. O. HOWARD, Secretary.

Office, 523 Montgomery street, San Francisco. jy29

Paragon Petroleum Company.—Office, Room 28
Government House, corner Washington and Sansome streets, San Francisco, Cal.—Location of Mine: Mattole District, Humboldt county, California.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 1st day of July, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Alden, R C	35	100	$30 00
Alden, R C	36	100	30 00
Alden, R C	37	100	30 00
Brown, R G	29	50	15 00
Brown, R G	30	50	15 00
Brown, R G	31	50	15 00
Brown, R G	32	50	15 00
Byers, J M	70	50	15 00
Dyer, J P	63	200	60 00
Dewey, A T	64	100	30 00
Dewey, A T	65	70	21 00
Ewer, W B	66	100	30 00
Ewer, W B	67	70	21 00
Mills, J J	50	10	3 00
Osborne, H B	87	50	15 00
Pioklam, J F	2	20	6 00
Poland, F S	24	20	6 00
Poland, F S	25	20	6 00
Poland, F S	26	20	6 00
Poland, F S	27	20	6 00
Poland, F S	28	20	6 00
Smith, C W M	68	100	30 00
Smith, C W M	69	70	21 00
Wade, E D Jr	63	50	15 00
Waterman, E R	71	10	3 00
Waterman, E R	72	10	3 00
Waterman, E R	73	10	3 00
Waterman, E R	74	10	3 00
Waterman, E R	75	10	3 00

And in accordance with law, and an order of the Board of Trustees, made on the 1st day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the salesroom of Edwards, Olney & Co., at No. 626 Montgomery street, San Francisco, on Saturday, the 19th day of August, 1865, at the hour of 10 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

D. S. CUTTER, Secretary.

Office, Room 28 Government House, corner Washington and Sansome streets, San Francisco, Cal. au5-4w

Paragon Petroleum Company, Mattole District, Humboldt county, State of California.

Notice is hereby given, that the Annual Meeting of the stockholders of the Paragon Petroleum company will be held at the office of the company, San Francisco, northwest corner of Washington and Sansome streets, on Saturday, September 2 1, 1865, at 3½ o'clock, for the election of Trustees to serve during the ensuing year, and for the transaction of any other business which may properly come before the meeting.

au12 D. S. CUTTER, Secretary.

Porter Gold and Silver Mining Company, Virginia District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of July, 1865, an assessment of five dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at 534 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. W. WESTON, Secretary.

Office, 534 Clay street, San Francisco. jy22

POSTPONEMENT.—The advertisement of stock delinquent on the above assessment is hereby postponed until Saturday, August 26th, 1865, and the sale thereof until Saturday, September 9th, 1865. By order of the Board of Trustees. (au19) C. W. WESTON, Secretary.

Sierra Nevada Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares	Amount.
Austin, H S	198	10	$5 50
Argell, John	not issued	5	3 75
Byam, H S	4	5	3 75
Bartlett, S A	19	5	3 75
Brown, Thomas	81	3	2 25
Brown, Thomas	82	12½	9 37
Burkly, C P	22	5	3 75
Bowen, Geo H	101	0	4 50
Bowen, Geo H	201	1	75
Coon, M R	104 97 98-10 ea	30	22 50
Cooper, Frank	2	5	3 75
Coon, M R	107	26¾	20 00
Chaney, Edmund	67 76 10 ea	20	15 50
Chaney, Edmund	77	3	2 25
Carlson, Thomas	62 64 65		
	and not issued-10 ea	40	30 00
Carlson, Thomas	60	11	8 25
Curran, B	139	5	3 75
Christie, John	162 163 164 6 ea	18	13 50
Christianson, O & B	not issued	62	46 50
Cox, George	not issued	10	6 50
Chamberlain, E J	not issued	10	7 50
Dent & Hay	not issued	25	18 75
Dealthe, J	193	8	6 00
Erickson, E H	86 87 & not issu'd-5 ea	15	11 25
Erickson, E H	88	4½	3 37
Eckle, A W	85	7	5 25
Earland, Nicholas	not issued	10	7 50
Gullickson, Louis	140	10	7 50
Hawkins, H J	9 10 11 12-25 ea	100	75 00
H Ivorson, Ole	20 21 25 ea	50	37 50
Halverson, Ole	not issued	150	112 50
Helyerson, John	30 31 15 ea	20	22 50
Helyorson, John	32 33 34 35		
	36 37 38 39 10 ea	80	60 00
Helyerson, John	not issued	5	3 75
Hargrave, E H	105	5	3 75
Hayward, U C	181	5	2 00
Hughes, S	183 184 185 3 ea	9	6 75
Hatch, F S	200	5	3 75
Johnson, John	28 40 41 42		
	43 44 45 46 47		
	48 49 50 51 52 25 ea	350	262 50
Johnson, John	53 54 55		
	56 57-10 ea	50	37 50
Johnson, Neils	111 112-25 ea	50	37 50
Johnson, Neils	110	20	11 00
Johnson, Neils	113 114 115		
	116 117 10 ea	50	37 50
Jones, J M	192	5	3 75
Kelsta, J	75	10	7 50
Kirk, Chas	23 24 25 26 20 ea	80	60 00
Kirk, Chas	106	5	3 75
Kirby, Z C	189	5	3 75
Lee, O N	72 73-10 ea	20	15 00
Lee, O N	not issued	13	9 75
Metz, Geo	144	5	1 50
Mott, Hiram	145 146 147 148		
	149 150 151 152 153 154 25 ea	250	187 50
Mank & Sou	166	14	10 50
Mank & Son	170 167 168 169-10 ea	40	30 00
Nelson, Ole	199	10	7 50
Olson, Peter	68 69 70-10 ea	30	22 50
Olson, Peter	71	11	8 25
Owens, J	57 and not issued-5 ea	10	7 50
Ogden, T	91 92-20 ea	40	30 06
Ogden, T	93 94 10 ea	20	15 00
Ogden, T	96 and not issued-15 ea	30	22 50
Olson, T	83	10	7 50
Olson, T	84	14	10 50
Palmer, S R	130 131 132 133-10 ea	40	30 00
Palmer, S R	134 135 5 ea	10	7 50
Pearson, Wm	188 189	10	7 50
Powers, J S	189	10	7 50
Rhodes, Alonzo	155	9	6 75
Randell, Eli	165	15	11 25
Ramlin & Metz	202	10	7 50
Sciverson, Thomas	58 59 60-10 ea	30	22 50
Sciverson, Thomas	not issued	21	15 75
Safford, H F	137 138 5 ea	10	7 50
Stoddard, Geo A	159	14¾	11 00
Sutherland, John	129	10	7 50
Smith, James	180	5	3 75
Skinner, M B	182	10	7 50
Scott, H D	194	10	7 50
Senter, R	197	8	6 00
Thornton, O F	158	13	9 75
Thornton, O F	not issued	38	28 50
Tarbell, F W	63	10	7 50
Thompson, Thomas	136	5	3 75
Thompson, Phillip	90 89 5 ea	10	7 50
Wilson, Robt	141	10	7 50
Wilson, Robt	142	9	6 75
Weeks, A R	171 172 173 174		
	175 176 177 178 25 ea	200	150 00
Weeks, A R	179	50	37 50
Werner, F	191	5	3 75

And in accordance with law, and an order of the Board of Trustees, made on the 10th day of July, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of Edwards, Olney & Co., 626 Montgomery street, San Francisco, on the 26th day of August, 1865, at the hour of 2 o'clock, P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. WARREN CLARK, Secretary.

Office, No. 410 Montgomery street, San Francisco.

Sierra Nevada Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 12th, 1865, at 2 P. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Silver Creek Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 19th, 1865, at 2 P. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Silver Prize Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Wednesday, September 20th, 1865, at 2 P. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Scott Mining and Exploring Company, Humboldt county, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of August, 1865, an assessment of eighty (80) cents per share was levied upon the capital stock of said company, payable immediately, in United States coin, to the Secretary, at the office of LARNE & Co., No. 224 Front street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 9th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

V. B. POST, Secretary.

Office, No. 224 Front street. au12

Smoky Valley Gold and Silver Mining Company, Smoky Valley District, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 7, levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Joseph Rydberg,	108	2	$ 3 00
G H Mullen	111	10	15 00
G H Mullen	112	10	15 00
James D Sears	113	10	15 00
James D Sears	114	10	15 00
James D Sears	115	10	15 00
James D Sears	116	10	15 00
James D Sears	117	10	15 00
C A Waller	128	5	7 50
S S Phillips	181	10	15 00
S S Phillips	190	2	3 00
James Hawley	not issued	30	45 00

And in accordance with law, and an order of the Board of Trustees, made on the 10th day of July, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at Maurice Dore & Co.'s, No. 327 Montgomery street, San Francisco, on Wednesday, 30th day of August, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. W. KNIGHT, Secretary.

Office, No. 36 Exchange Building, San Francisco. au12

St. Clair Consolidated Mining Company, Smoky Valley District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 31st day of July, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

AUGUST KUNAST, Secretary.

Office, 540 Washington Street, au5

Tip Top Gold and Silver Mining Company,
Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Monday, September 18th, 1865, at 12 M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Office of the United States Gold and Silver Mining Company, San Francisco, Cal.—Location of Mines: in Santa Fe and Ravenswood, Mining Districts, Lander county, Nevada.

Notice is hereby given, that in accordance with a resolution of the Board of Trustees of the above named Company, passed on Wednesday, the fifth day of July, 1865, and in accordance with the by-laws of said Company, a meeting of the stockholders of the above named Company will be held at the office of the Company, No. 605 Clay street, in this city, on Thursday, the tenth day of August next, at 7½ o'clock P. M., for the purpose of authorizing and empowering the Trustees of said Company to sell on or more of the mines belonging to the said United States Gold and Silver Mining Company, and for the purpose of changing the by-laws of the same, and for the transaction of any and all business that may legally come before the meeting. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

San Francisco, July 5, 1865. jy8-5w

The above meeting is hereby adjourned to the 24th inst., at the same hour and 540 Clay street. By order of the Board of Trustees.

au 12 J. T. PENNELL, Secretary pro tem.

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Easternagencies.

Union Copper Mining Co. No. 2, Ledge or Claim situated in Copper Canon District, county of Calaveras, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of August, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in gold coin of the United States of America, to the Secretary, at the office of the Company, California street, in the city of San Francisco.

Any stock upon which said assessment shall remain unpaid on the 4th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 23d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order at the Board of Trustees.

OVE. TOUCHARD, Secretary.

Office, 416 California street.
San Francisco, August 3, 1865. au12

Wisconsin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on September 17th (Sunday)—changed to Monday, September 18th, 1865, at 10 A. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Whitton Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 5th, 1865, at 2 P. M of said day.

au12-4w J. WARREN CLARK, Secretary.

Wide West Gold and Silver Mining Company, Silver Mountain District Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Thursday, September 7th, 1865, at 2 P. M. of said day.

au12-4w I. S. BROWN, Secretary.

Whitlach Yankee Blade Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22d day of July, 1865, an assessment of ten dollars per share was levied upon the capital stock of said Company, payable immediately, in United States currency, to the Secretary, 402 Front street (up stairs), San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 12th day of September, 1865, to pay the delinquent assessment thereon, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street (up stairs), San Francisco. jy22

Wisconsin Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.
ASSESSMENT No. 4.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of July, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the company, or to R. H. FOAD, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.

Office, No. 410 Montgomery street, San Francisco.

NOTICE.—At the above meeting, assessment No. 1, of 8 cents, levied July 8th, 1863, assessment No. 2, of 10 cents, levied September 19th, 1863, and assessment No. 3, of 50 cents per share, levied June 3d, 1864, were rescinded, and stockholders having paid the same, or any portion, will be credited on above assessment, No. 4 accordingly.

jy22 J. WARREN CLARK, Secretary.

POSTPONEMENT.—The advertisement of stock delinquent on the above assessment is hereby postponed until Saturday, August 26th, 1865, and the sale thereof until Saturday, September 9th, 1865. By order of the Board of Trustees.

J. WARREN CLARK, Secretary.

Office, 410 Montgomery street, San Francisco. au19

Yosemite Mining Company, Oro Fino District, Humboldt county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 3d day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Bennett, E D	88	5	$6 25
Bennett, E D	89	5	6 25
Cathers, James	1	100	125 00
Cathers, James	2	50	62 50
Cathers, James	3	50	62 50
Catbers, James	6	10	12 50
Cathers, James	7	10	12 50
Folsom, A	70	25	31 25
Folsom, A	71	25	31 25
Folsom, Mrs R A	87	25	31 25
Hedges, Wm H	49	5	6 25
Hedges, Wm H	60	15	18 75
Hedges, N M	91	35	43 75
Hanson, Chas	86	50	62 50
Potter, Theron	111	5	6 25
Pottor, Theron	112	5	6 25

And in accordance with law, and an order of the Board of Trustees, made on the 3d day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on the 19th day of August, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

S. O. PUTNAM, Secretary.

Office, No. 402 Front street (up stairs), San Francisco. au5-8w

"O. T. N."—These are the initials on the flag raised over the *Bulletin* publication office when the paper is receiving dispatches.

"What do they mean?" inquired a chap of a bystander, the other day, as he stood puzzling his brain for a correct interpretation.

"Why, the meaning is very obvious," replied the gentleman addressed, who is something of a wag, and felt a little piqued at the irregularities of the wires; "they mean *Overland Telegraph from Nevada, to be sure!*"

That was satisfactory. "Greeny" remembered that the line, for some time past, had not succeeded in getting dispatches much beyond that point.

THERE are three coal mines in the vicinity of Jackson, Michigan, one of which employs over 1,000 miners, and has five miles of drifts and galleries under ground.

"Say, why should man for thirst be given
If not for wine bestowed by Heaven
To quench such drought as mine?
Without it, I'm a fish on land,
A barren heap of parching sand—
Then give me joyous wine."—*Trinkkied.*

Delicacy of flavor, exhilaration without intoxication, and every other desirable property belonging to the richly fermented Juice of the Grape, are to be found in the "Gerke Wine," from the celebrated Bosquejo Vineyard, Tehama county.

There is no wine produced in California that can bear comparison with this, and it would be difficult to find a European wine, of the same class, that can surpass it.

The vintage of 1862 is now offered for sale, in quantities to suit, by the Agent of the vineyard,

A. S. LOWNDES,

Basement of the New York Hotel, southwest corner Battery and Commercial streets, San Francisco. 20v10-qy

OIL WELL BORING.

J. SEVENOAKS,

Contractor

For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1229 San Francisco. 2v11

PARAGON

PETROLEUM COMPANY.

Incorporated June 2, 1865,

Under the Laws of the State of California.

CAPITAL STOCK,

$600,000.

NO. SHARES.....6,000

Par Value.....$100

OFFICERS:

President.....ROBERT KIRK

Treasurer.....WM. H. TOBEY

Secretary.....D. S. CUTTER

TRUSTEES:

ROBERT KIRK, T. G. DUFF, WM. H. TOBEY.

OFFICE:

At WM. H. TOBEY & CO.'S Petroleum Agency, Room No. 28 Government House, corner of Sansome and Washington streets, SAN FRANCISCO.

The claims of this Company consist of ONE HUNDRED AND SIXTY (160) ACRES of oil land, favorably located on the North Fork of the Mattole river, adjoining the grounds of the Union Mattole Company, Mattole District, Humboldt county, California. The Company are now actively engaged in the development of the claims.

KELLOG CREEK

PETROLEUM AND MINING COMPANY.

INCORPORATED JULY 11TH, 1865,

Under the Laws of the State of California.

NO. SHARES.....10,000

Par Value.....$50 00

W. F. BRANDRETH.....President

J. M. BUFFINGTON.....Secretary and Treasurer

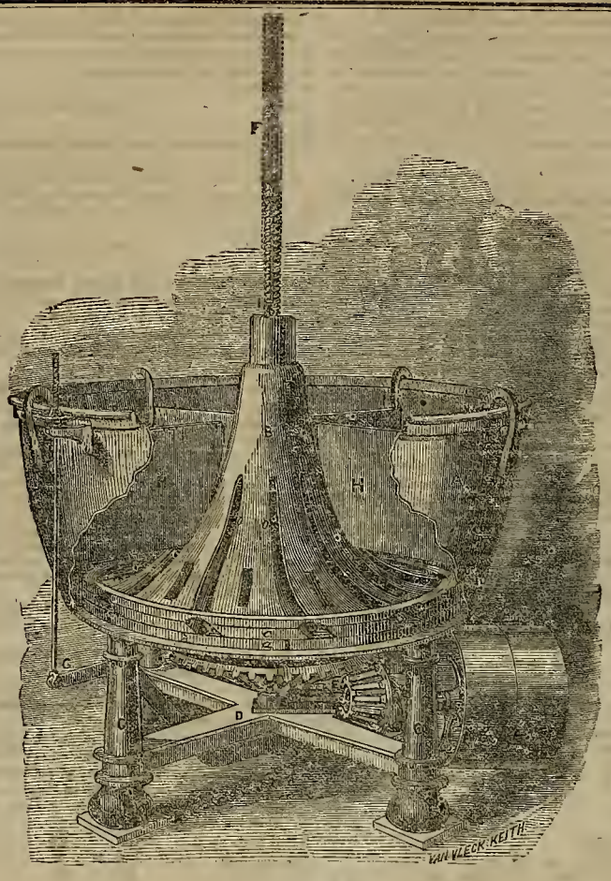
OFFICE—Room No. 10 Government House, corner of Sansome and Washington Sts., San Francisco.

The claims of this Company consists of SIX HUNDRED AND FORTY (640) ACRES, situated on Kellog Creek, in the Marsh Creek Mining District, Contra Costa county, Cal.

One thousand (1,000) shares of the contingent fund is offered at the low price of ONE ($1.00) DOLLAR per share, full paid, all the stock being unassessable. All who wish to purchase, or make any enquiry concerning the Company, will please call on the Secretary,

J. M. BUFFINGTON,

2v11 Corner of Sansome and Washington streets.



THE EXCELSIOR

GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity, "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing eveuness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

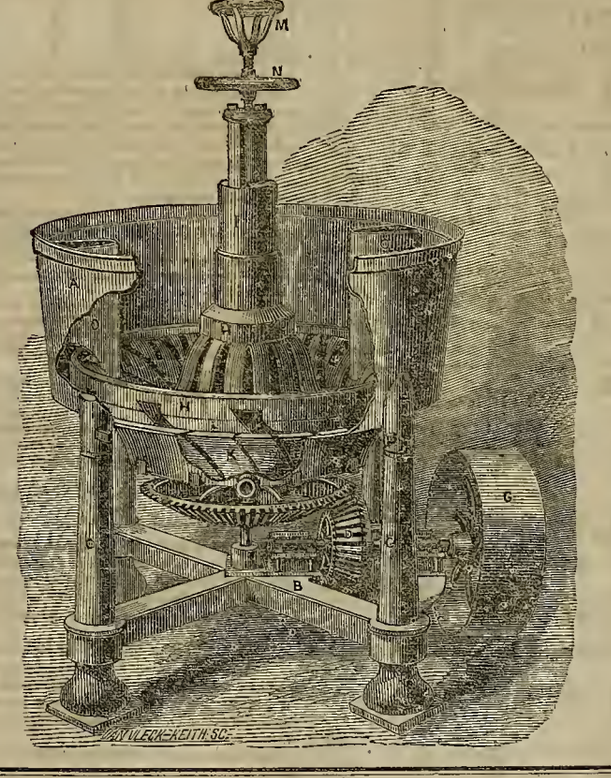
Union Iron Works and Golden State Iron Works,

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practica quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.



THE

WHEELER & RANDALL

Grinder and Amalgamator.

In the engraving herewith exhibited, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Plates.

The attention of the Public is respectfully called to these facts:

1st. That the Mechanical work accomplished by differently formed grinding plates, having the same diameter, weight, hardness, and revolving at the same velocity, is as follows, to wit:

The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory-formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

2d. That as a whole, the Wheeler & Randall Grinder and Amalgamator is one of the most simple, compact, substantial, convenient and efficient pans in use.

☞ Patent applied for.

MANUFACTURED AT

GOLDEN STATE IRON WORKS.....San Francisco.
UNION IRON WORKS..... "
MINERS' FOUNDRY..... "
SAN FRANCISCO FOUNDRY..... "
PRESCOTT & SCHEIDEL.....Marysville.
OREGON IRON WORKS.....Portland, Oregon.

WHEELER & RANDALL, Inventors.

SAN FRANCISCO, JUNE 13, 1865.

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 16, 1865. 11v10-tf

SAN FRANCISCO

CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Puro Manila Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at **TUBBS & CO.'S,**

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14v10

QUICKSILVER

FOR SALE BY

S. F. BUTTERWORTH,

Northwest cor. Battery and California sts.

v9-19 SAN FRANCISCO.

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSIT ON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery, or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street, above First (opposite the Oriental Hotel), San Francisco.

23v10

Agent Wanted.

A good Canvassing Agent can secure permanent and remunerative employment by calling at the office of the MINING AND SCIENTIFIC PRESS, 505 Clay street.

DEWEY & CO.,
Publishers and Job Printers,
Office Mining and Scientific Press, San Francisco.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible

HATS, HATS.

The Largest Assortment
—OF—
HATS AND CAPS
—IS AT—
Meussdorffer's Hat Manufactory,
635 and 637 Commercial Street,
Between Montgomery and Kearny,
SAN FRANCISCO,
WHICH HE OFFERS FOR SALE
WHOLESALE AND RETAIL.

NEW DISCOVERY

FOR DESULPHURIZING AND DECOMPOSING
METALLIFEROUS ORES,
—SUCH AS—
Auriferous Sulphurets, Arsenites or Antimonial Telluric, Gold and Silver Ores.

By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by

DANIEL ROSS,
Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me

EDWARD ARNOLD,
Inventor and Patentee.

Monitor, Alpine county, Cal.
W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11

TEETH

☞ Extracting Without Pain. ☜
Drs. Whitcomb & Dyer,
DENTISTS,
[Successors to W. H. Irwin.]
No. 205 Third Street, near Howard,
v9 SAN FRANCISCO.

A German Mining Engineer,

LATELY FROM THE EAST,
Desires a Place in a Mine, Assay Office, or Chemical Laboratory.
Address O. H., office of this paper. 4v11-1m

Machinery.

ATTENTION, MINERS!

LINSCOTT'S PATENT
CHAMBER DRILL.
Great Improving in Blasting.
W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.

D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ¾ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

HANSCOM'S CRUSHERS,

Made in sizes suitable for Breaking Quartz for Batteries; Rock for macadamizing or concrete; Copper Ore for sacking, sampling, or concentrating; also, for crushing Quartz for Arastras and Grinders. The small sizes make a most efficient Crusher for Prospectors, and are arranged to be run by Hand, Horse, Water or Steam Power. For further information address W. W. HANSCOM.
1 Golden State Iron Works, San Francisco.

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th. Illustrated in the Mining and Scientific Press, April 9th, 1864. HEPBURN & PETERSON.
nov8-3m

NOTICE TO MINERS.

NEW QUARTZ MILL.

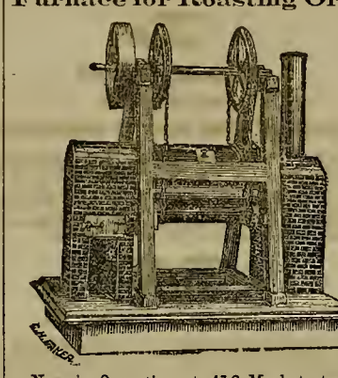
THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fanchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Crocodile Quartz Crusher; his Pulverizer; and his Improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast, amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 25 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. B. FAUCHERY, Engineer,
24v9

WM. BRUCKNER'S
Furnace for Roasting Ores.



Now in Operation at 416 Market street.

This Furnace, which is portable, and can be carried on muleback, undertakes to roast without employing any labor whatever for the operation of stirring, which is accomplished by machinery that may be driven by steam or any other motor. It consists of an iron cylinder, which, being suspended by chains, in rotating mixes and stirs the ore, by an internal apparatus, quicker and more perfectly than can be done in any other furnace hitherto known in metallurgy. It can be applied to any kind of ore, and the rapidity and perfectness of its operation, the great saving in fuel, and the entire saving of the labor usually required for stirring the ore, together with the small cost of constructing it, renders this furnace a most

Economical and Practical Invention.

The Furnace may be had of two sizes—one being nine feet in length and holding fourteen hundred pounds, and the other six feet in length, and holding eight hundred pounds. One horse power is required to drive the machinery of the larger sized furnace, and three-fourths of a horse-power for the smaller size. Parties wishing to erect such furnaces will please communicate to

W. BRUCKNER,
5v10 No. 416 Market street, San Francisco.

BLAKE'S
QUARTZ BREAKER

Is now extensively used for breaking hard masses of
Quartz or Ores
To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA, WASHOE, ENGLAND, FRANCE,
—AND—
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned.
Address,
BLAKE & TYLER,
Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.
4v10

VARNEY'S
PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setters made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setters for themselves, at the PACIFIC FOUNDRY,
1v1 San Francisco.

THE HAMMER QUARTZ MILL.

[PATENT APPLIED FOR.]

This Machine is now complete and ready for sale. In constructing it, our aim has been to produce a light, cheap and economical Crusher—one adapted to mining on a small as well as on a large scale.

The elementary principle on which it operates is that of the stamp—the only one really reliable and economical.

But the stamp has many serious disadvantages, among which are its great weight and small velocity; the great power required to run it; difficulty in feeding properly; imperfect discharge, and the necessity of crushing wet, or the annoyance from dust in crushing dry.

All these difficulties are obviated in our machine, and the percussive blow of the stamp retained, with the further advantage of its being a drawing or grinding one.

We give to our hammers such absolute or relative weight and velocity as we choose—just such as to effect their purpose and no more—thus securing the qualities of the natural hammer blow.

The feed is self-adjusting and uniform, and as fast as the ore reaches the required degree of fineness (which depends upon the fineness of the screen or sieve used), it is instantly discharged, so that there is no packing of the ore under the hammers.

The mill crushes dry, with no more dust than that incident to feeding, which is trifling.

As the only support of the mortar is a single post set into the ground, the machine can be put in place at slight expense.

The size now being built weighs about 1,800 pounds complete; the heaviest piece not weighing over 275 pounds. It is driven by half a horse-power, and crushes from three to ten tons per day of twenty-four hours per day, according to the character of the rock and the fineness to which it is reduced.

PRICE,.....$800.

Larger ones will be furnished if desired.

We invite an inspection of the Mill now in operation adjoining the Foundry of DEVOE, DINSMORE & CO., on Fremont street, between Market and Mission, San Francisco.

Office, No. 11 Court Block, San Francisco, Cal.
21v10 RIX & LOGAN.

ATWOOD'S
Self-Regulating Windmill.

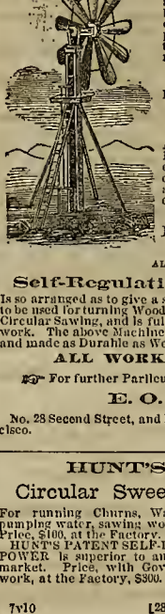
This Windmill is the most perfect self-regulator yet invented, and is capable of being adjusted to any desired speed. Manufactured at

222 Mission Street, North side, below Beale,
SAN FRANCISCO.

N. B.—We also manufacture DICKERSON'S SELF-REGULATING MILLS; also, Rotary and Stationary Mills of different styles and prices, varying from $50 to $500 each; also round and square Water Tanks made to order.

222 Mission street, below Beale. 5

HUNT'S
IMPROVED WIND-MILL.



THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN
HORSE POWER
For Sawing Wood.
ALSO, THE
Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,
No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

HUNT'S PATENT
Circular Sweep Horse-Powers,

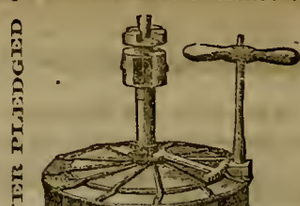
For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,
7v10 [28 Second street, San Francisco.

Equal to the Best Overshot Wheel

POWER PLEDGED



IN EXISTENCE.

LEFFEL'S
AMERICAN DOUBLE TURBINE.

The DOUBLE TURBINES, so long expected, have arrived at last, and orders can now be filled. We have a large supply of the different sizes, from 20 inches to 20¾. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

The above Wheel will be exhibited during the Fair of the Mechanics' Institute, where all may see it and hear its merits explained. This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 100 to 300 pounds will yield from 10 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to

LEFFEL & MYERS,
4v11-1f Care RICHARDS & MCCROKEN, San Francisco.

TO QUARTZ MINERS.

Hinkle's Centrifugal Pulverizer and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUGAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steen, Nos. 37 & 39 Fremont street, between Market and Mission streets.

This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine, made entirely of Iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

Mr. Hinkle, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 60 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to

PHILIP HINKLE,
At the Novelty Iron Works, Nos. 37 & 39 Fremont street.
15-1m

BAUX & GUIOD'S
Separator & Amalgamator

Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jefferson Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crall's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Heuch & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,
Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v2-6tf

McCOMB'S
CUMULATIVE POWER PRESS
AND
ARROW TIE.
E. C McCOMB, Agent.
No. 1 Government House, cor. Sansome and Washington sts.
23v10 3m

NOTICE.

The undersigned having purchased the EXCLUSIVE RIGHT in and for the State of California, for the

Manufacture and Sale of
WINHAM'S
PATENT HOSE COUPLING,

Hereby caution all parties against the manufacture or purchase of the above Hose Couplings, except through us, as any infringement will be prosecuted to the full extent of the law.

PRESCOTT & SCHEIDEL,
Marysville Foundry.
March 31st, 1865. 13v10-3m

☞Names of Exhibitors will be inserted in this column during the Fair, and in the Catalogue, for $1.50. Advertisements or notices of those marked with an asterisk will be found in the DAILY FAIR PRESS.

Alphabetical Reference List

—OF—

Advertisers and Exhibitors,

WITH THE LOCATION OF ARTICLES IN THE PAVILION.

The figures below show the No. on the accompanying plan, representing the section in which the Exhibitors' articles are located in the Pavilion.]

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*Atwood & Bodwell, Windmills, 222 Mission street and front of Pavilion	
*Arthur, & Son, J D, Agricultural Implements, Cal & Dav.	
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Billiard Tables	49, 55
*Booth & Co., H J., 40-horse Engine	17
*Beers, & Co, Dr J B Dentists, 127 Mont st.	
*Benard, Charles, Family Coffee and Spices, 707 San	89
*Bosqui, E & Co, Book-Binders and Printers, 517 Clay st.	
*Bigelow & Bro, General Insurance Agents, 505 Mont st.	
*Bitter & Bennett's Dental Chair, 653 Clay st.	
*Bowers, J T, Music, Pianos, etc, 131 Montgomery st.	
*Bartling & Kimball, Book Binders, 505 Clay st.	
*Bragg, H W & Co, Hardwood, Lumber, 29 and 31 Bat st.	
*Bradley & Rulofson, cor Mont & Sac sts.	61
*Bryan, M, Photographic Artist, 611 Clay st.	
*Burke, W F, Boots and Shoes, cor Mont and Pine sts.	
*Burbank, Dr. D., Dentistry, cor. Mont. and Sac sts.	
*Beath, S M, Patent Amalgamator, Vulcan Iron Works.	
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*Carle & Gorley, Auction and Com Merchants, 724, 726 Mont	
*California Homestead Association, 8 S Land, Sec, 330 Mont.	
*California Powder Works, J F Lobse, Agt, 318 Cal st.	
*Coffee, Risdon & Co, Gil Well Tools, Bush and Market st.	
*Crowell, J P, Dentist, 139 4th st.	
*Chapman, Mrs C M, Vegetable Hair Dye, 637 Market st.	
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*Daniel, John, Marble Works, 408 Pine street.	
*Dunn, G W, Real Estate Agent, 422 Mont st.	
*Day, Thos, Crs Fitting and Plumbing, 732 Mont st.	
*Dake, Clothing, Furnishing Goods, 541 and 543 Wash sts.	
*Eureka Self-Adjusting Wringer, M E Traver & Bro, General Agents, 213 and 215 Third st	
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*Folleau, A, Anatomical Trusses, 624 Washington sts.	
*Folkers, J H A, Instruments, Trusses, etc, 218 Mont st.	
*Field & Co, Wines, Brandies, etc, 422 California st.	
*Firemans' Fund Ins Co, 238 Mont st.	
*Gage & Bouton, Ladies Emporium of Fashion, 12 Mont st.	
*Godchaux, Weil & Co., Dry Goods, 24 and Mission sts.	
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*Gray, Nathaniel, Undertaker, 641 Sacramento st.	
*Gill & Co, T, Straw Bleaching, Coloring, etc, 45 Third st.	
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*Hinckley & Co, Fulton Foundry, 45, 47 and 49 First st.	
*Hucks & Lambert, Axle Grease, Nat and Minna sts.	
*Haskell's Tea Store, Market and Sutter sts.	
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*Lawrence & Houseworth, Cal View Artists, Optical Instruments, 317, 319 Mont.	
*Libbey, Dr. Dentist, 224 Mont st.	
*Longshore, James, Trunk Manufacturer, 203 Bush st.	
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*McGann & Co, Practical Hatters, 654 Washington st.	
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*Maudeville, Edward, Blacksmith's Bellows, 218 Mis st.	
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*Mechanics' Mut Marine Ins Co, office NE cor Sac and Cal.	
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*Parker, Edw H, Hazard's Powder, Shot, Fuse, etc, 224 California st.	
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*Roman & Co, A, Booksellers, 417 and 419 Montgomery st.	
*Rubber Clothing Co, Joseph Fraser, Ag't, 642 Sac.	47
*Ripley & Kimball, Piano Fortes & Melodeons, 417 Mont.	69
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*Shew, Wm, Photographic Gallery, 421 and 423 Mont.	60 61
*Sloss, John B, Fire-Proof Doors and Shutters, Bank Vaults, etc., Oregon st, bet. Front and Davis Wash and Jack.	
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*Towne & Bacon, Excelsior Book and Job Printing Office, 536 Clay street.	
*Taaffe & Co, Fancy and Dry Goods, 9 Mont st.	
*Tubbs & Co, S F Cordage Manuf'y, 611 and 613 Front st.	3
*Truworthy, F M, Stencil Plate Cutter, 321 Front st.	
*Thompson, I D, Wines and Liquors, 321 Mont st.	
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*Union Iron Works, H J Booth & Co, cor 1st and Mis st.	
*Van Vleck & Keith, Designers and Engravers, 611 Clay st.	
*Vulcan Iron Works Co, Iron Founders, 1st, Nat and Fre.	
*Willis' Band (engaged for the season). Office, 131 Mont.	28
*Whelan, Denis, Boots and Shoes, 17 Fourth st.	
*Wolfe, James E, Architect, 409 Mont st.	
*Wilkins & Co, J M, Family Groceries, 2d and Natoma sts.	
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*Weir, W G, Cabinet Furniture, 638 Market st.	
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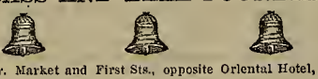
*Winter, Wm, Sign and Ornamental Painter, 805 Washington	
*Winter, R, Artist, 605 Sacramento st.	72
*Way, Daniel E, Pioneer Japanese Bazaar, 206 Montgomery	
*Whitcomb & Dyer, Dentists, 205 Third st.	
*Wheeler & Wilson Sewing Machines, F L Tilston, corner Montgomery and Sacramento sts.	
*Wheeler & Randall, Excelsior Grinder and Amalgamator.	

ADVERTISERS in the DAILY FAIR PRESS who have goods on exhibition in the Pavilion will please notify us immediately of the section in which they are located in the ground plan of the Pavilion, published in this issue.

W. T. GARRATT,

City

BRASS AND BELL FOUNDER,



Cor. Market and First Sts., opposite Oriental Hotel, SAN FRANCISCO.

Manufacturer of Brass, Ziac, and Anti-Friction or

Babbet Metal Castings;

CHURCH AND STEAMBOAT

BELLS,

TAVERN AND HAND BELLS AND GONGS,

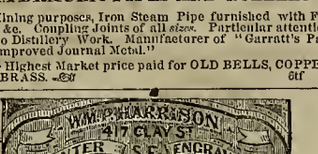
FIRE ENGINES, FORCE AND LIFT PUMPS,

Steam, Liquor, Soda Oil, Water and Flange Cocks, and Valves of all descriptions, made and repaired. Hose and all other Joints, Spelter, Solder, and Copper Rivets, &c. Gauge Cocks, Cylinder Cocks, Oil Globes, Steam Whistles,

HYDRAULIC PIPES AND NOZZELS

For Mining purposes, Iron Steam Pipe furnished with Fittings, &c. Coupling Joints of all sizes. Particular attention paid to Distillery Work. Manufacturer of "Garratt's Patent Improved Journal Metal."

☞Highest Market price paid for OLD BELLS, COPPER AND BRASS. ☜ 6tf 6tf



In Local Affections no words can give a just idea of the comfort one of these plasters impart. They are the plaster of the day, and a fit type of our present advancement in science and art. In Asthma Cough Kidney Affections, and local deep-seated pains in permanent relief. TRY ONE, and be convince

PRINCIPAL OFFICE

T. ALLCOCK & CO.,

Brandreth's Building,

New York.

W. F. BRANDRETH,

OFFICE AT

Crane & Brigham's.

SAN FRANCISCO.

☞ **FOR SAL BY ALL DRUGGISTS.** ☜

9v25q

HENDY'S

IMPROVED BLOW-PIPE.

This Convenient Helpmeet

— TO THE —

ASSAYER, CHEMIST, DENTIST, JEWELLER, PROSPECTOR AND MILLMAN,

Can now be procured, at the Patentee's price, by sending your orders, by mail or otherwise, to the

Office of the Mining and Scientific Press.

This article was more fully mentioned in the PRESS of April 15th, 1865. Since that time, however, Mr. Hendy has made a further improvement by attaching a rubber hose between the mouth-piece and the pipe, enabling the blower to change his position without disturbing the direction or constant accuracy of the current on the object upon which it is turned. The main portion of the blow-pipe is made with a joint, at which a valve is placed, which is opened when the operator blows and closed immediately when he ceases. By this arrangement the little bag or bladder is readily filled at a single breath, and with very little exertion. When so filled, a continous current of air is forced from the nozzle of the pipe by the more contractive force of the gutta percha. This force is uniform until the air is very nearly exhausted. The current may be easily varied or entirely cut off by gently pressing the fingers upon the neck of the bladder above the nipple to which it is attached.

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Of the worst disorders that afflict mankind arise from the corruption that accumulates in the Blood. Of all the discoveries that have been made to purge it out, none can equal in effect HELMBOLD'S CONCENTRATED EXTRACT OF SARSAPARILLA. It cleanses and renovates the Blood, instills the vigor of health into the system, and purges out the humors which make disease. It stimulates the healthy functions of the body, and expels the disorders that grow and rankle in the Blood. Such a remedy, that could be relied on, has long been sought for, and now, for the first time, the public have one on which they can depend. Our space here does not admit of certificates to show its effects, but the trial of a single bottle will show to the sick that it has virtues surpassing anything they have ever taken.

B

Two tablespoonsful of the Extract of Sarsaparilla, added to a pint of water, is equal to the Lisbon Diet Drink, and one bottle is equal to a gallon of the Syrup of Sarsaparilla, or the decoction as usually made.

The above Extracts are prepared on purely scientific principles—in *Vacuo*—and embody the full strength of the ingredient entering into their composition. A ready and conclusive test will be a comparison of their properties with those set forth in the U. S. Dispensatory.

O

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In Diseases of the Blood, Humors on the Face, or any and every part of the body, use Extract of Sarsaparilla, applying to Pimples and all external Humors or Eruptions the Improved Rose Wash.

Use the Extract Buchu for all diseases requiring the aid of a diuretic, except those of the Urinary Organs, such as Gonorrhœa and Gleet: in these use the Extract Buchu, and inject with the Improved Rose Wash.

L

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ZENAS WHEELER AND P. M. RANDALL,

Authors and Publishers,

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THE QUARTZ OPERATOR'S HAND BOOK is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

The work also contains an original and highly interesting discussion of the theory and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Belsbaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on page 415 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865.

Sold by booksellers generally. Price by mail, postage paid, $1.25. Address "Wheeler & Randall, at the Mining and Scientific Press Office, San Francisco."

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Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

O. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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During the Fair

We hope the readers of the MINING AND SCIENTIFIC PRESS will look with leniency upon any degression they may observe from the usual contents and make-up of our journal. Correspondents will also please bear patiently with the crowded state of our columns in giving full reports of the Exhibition.

OUR PAPER BY EXPRESS.—Owing to the fact of Wells Fargo & Co requiring publishers to pay 2½ cents per copy in advance on papers sent to subscribers in the interior we are obliged to make our subscription terms by express $6.50 per annum.

THE STONES OF THE TEMPLE.—The marble stones which composed Solomon's Temple were said to be forty cubics long twelve thick and eight high. Suposing a cubic to be eighteen inches, which is the lowest estimate, they would be sixty feet long, eighteen feet thick, and twelve feet high. And supposing a cubic foot of marble to weigh 2,707 ounces, one of these stones weighed 2,752,038 pounds and 12 ounces. And supposing one man to be able to raise 200 pounds, it will require 13,760 men to raise one of these, and also a little boy who could raise 38 pounds 12 ounces. And suppose one man to require a square yard to stand upon, it would require 2 acres, 3 roods, 11 perches and 12 yards for them to stand upon while raising it, besides a place for the little boy to stand. What floats must have been necessary to carry them across the sea to Joppa! And what kind of teams, as well as wagons, do you suppose they had to carry these stones from Joppa to Jerusalem, which is about thirty miles, and a mountainous country? And what skill was necessary to square and dress these immense stones, so that when they were brought together they fitted so exactly that they had the appearance of being one solid stone.

A WAVE on which many a poor fellow has been carried away is the wave of a lace-edged cambric handkerchief.

ALL notibility in its begianings was somebody's natural superiority.

THE Richmond *Christian Observer* is the only religious newspaper now alive in the Southern States.

PUT no faith im a new promise based on the breach of an old one.

[Written for the Mining and Scientific Press.]

Colorado Gold Processes.

EDITORS MINING AND SCIENTIFIC PRESS:—In a number of your valuable journal, some weeks ago, I noticed an extract of a portion of a "Circular" on some mining processes and machinery that I issued here about March 1st, 1865, but which was incorrectly copied, so as to injure its merits. In your issue of May 20th and the week previous, there are notices of "Messrs. Crosby & Thompson's Process and Machinery." As theirs and my own are somewhat similar in parts, and as I am *partially* acquainted with those gentlemen and their experiments, with your permission I would like to make some comments on their ideas and your statements, and some explanations of the points involved in my own inventions, *pro bono publico*.

You remark of Messrs. C. & T's process, that their assumption that gold exists in nature as a sulphide, or in a volatile condition, capable of being condensed, "is without a shadow of proof," and that "their experiments appear to have been confined to concentrated sulphurets, nearly free from quartz." To this I answer, that most of the workable ores in this country are of that description, containing usually sulphides of gold, silver, copper, and often lead, all mixed together, with fine quartz crystals, and some quartz uncrystalized. In elaborate experiments on these ores three years ago, I found in nearly all of them *mineral oil*, as well as sulphur and arsenic, in quantity, and other base metals. By roasting pulverized ores in a common fire to a red heat, and then plunging them red hot into cold water, I separated the copper by precipitation on the bottom of the iron vessel, and floated off the mineral oil. In some instances, where the heat was at a low red temperature, upon panning down the powdered ore after the above treatment, I found the gold in fine scales at the bottom of the pan, and though yellow, yet quicksilver would not touch them until I re-heat them with soda or alum, when they lost their yellow hue and amalgamated without difficulty. Now that proved to me that there was a chemical coating over the gold in *such* pyritous ores that by no process or machinery in use at present, unless it might be Mr. Crosby's, or those of my own invention, described partially in the accompanying "Circular," could the precious metals therein contained be saved. So I conclude that most of the *gold* in Colorado ores exist therein in the state of a sulphide. [We do not see the reason for any such inference.—En. M. and S. PRESS.]

The silver-lead ores here are much easier *treated*, but scarcely anything can be saved from them by our mills, as they manage them by the wet process; for the lead, oil and manganese therein fouls up the quicksilver and battery plates in an hour or two, so that no metal can be caught or saved upon them, though these ores are from five to ten times as valuable in gold and silver as the more common gold ores. In my experiments on these I found that roasting them when pulverized with one-twentieth of soda, by weight, would so soften and decompose their constituent particles, that no difficulty was afterward found in grinding gold, silver and lead *all* into amalgam with mercury, and separating the lead from the other metals by the explosive process practiced in Germany, which I had not read or heard of, but re discovered. I also found that sulphur was a great aid in combustion, and that alum was nearly as good as borax for a flux; further more, that the three used together properly, in but small quantities, would flux the most stubborn of these stubborn minerals, and *these latter ores* as freely as desired, precipitating all their precious contents directly, with but a moderate heat.

I am confident that with a furnace similar to the one described in the following extracts from my "Circular," that the rich ores of Nevada, as well as some in this and other sections, can be made to flow streams of precious metals, especially with, (and in most instances without) a hot air blast.

"There is a class of ores known as argentiferous galena, which, in addition contain yellow pyrites or sulphates of gold; these are the richest ores in Colorado, containing often from five to ten dollars per pound in gold and silver, and a quantity of lead, which has hitherto prevented the collection of the more valuable metals; in most cases, however, they will yield to the treatment last described; if not, they can be readily *fluxed* by the following receipe, at an expense of a few cents per pound, which is not much when the yield produced thereby is often as many dollars:

"Intimately mix with the pulverized ores one-tenth to one-twentieth by weight, each, of bi-carbonate or nitrate of soda and rosin; place the compound in a cone-shaped, boiler iron or other suitable crucible, and when brought up to a white heat pour into a cavity in the middle of the mass similar and equal quantities by weight of pulverized borax and sulphur, or the same of sulphus and double of alum, which will produce *an immediate flux*, precipitating the contained metals in a button of more or less purity; the whole time required being governed by the quantity operated on, and the amount of lead in the ores treated."

"The Smelting Furnace designed for the Fluxing Process, is a circular stone structure lined with fire-proof brick or gneiss, with dome top and tall chimney. It has doors near the bottom for fuel, and another opening near the top of the contained crucible, for the purpose of charging it. The crucible may be made of boiler iron in the shape of a sharp cone, and if of large size, is to be provided with one or more flues through its length. It is to be placed vertically in the centre of the furnace, with but a few inches space around its rim or larger part; its top has half-section iron covers, hinged to the rim; a vessel to contain hot water is placed above the crucible, with faucet, to detach slag from the crucible. The crucible has an opening in one side, near the bottom, with carved doors to fit, opening outward into a square case passing through the furnace walls to take out the refuse charges through. A curved iron pipe of an inch or two in diameter, screwed into or rivited on the bottom of the crucible, and passing out through the furnace wall serves to draw off the melted ores when sufficiently refined, into cold water, or into moulds. The inner opening of the pipe is protected from stoppage by a convex iron plate scolloped round the edge, covering the bottom of the crucible and supported an inch or two above it on proper bearings. The pipe is to closed by a clay plug, externally."

With regard to the losses in working gold ores noted in your article of May 20th, I am confident that in the wet process it occurs from the intimate pulverization of the contained ores in part, which renders them too light to settle in muddy water; and also from chemical coating on the particles of gold, as well as from their peculiar scaly form, like the finest of mica shivers in appearance. In the dry process I differ with you, and think it chiefly occurs in "sublimation;" for all my experiments in nearly ten years of gold mining lead me to the conclusion that gold in the flourcy state will go wherever quicksilver does or can, even under the volatilizing pressure of heat. To obviate this *great* waste—from double to three and five times the quantity saved by most mills—as assay of the *untreated* ores show—I have invented, and am seeking a patent on a peculiar condensing and purifying apparatus, to be attached to all furnaces of quartz mills, which I think will fully overcome this difficulty.

Your remark that "the employment of revolving iron cylinders, and revolving tables with stirrers have been tried time and again, and thrown aside," is probably true of what *has been* in times past, and your subsequent comment that the "peculiar arrangement" of Messrs. C. & T's "cylinder, etc., must be of great value" for the purposes designed, "if they will stand the attacks of the sulphur," I fully coincide with. In one set of my machinery I have adopted a "revolving iron table with stirrers," as the very best roasting apparatus for finely pulverized ores that could be devised. I enclose it above a circular furnace and cover it with a close jacket, with smoke flue through the centre of jacket, with a damper therein, thereby economizing the fuel and heat, and by means of the stirrers, securing an even and thorough roasting at a very low temperature. The ores are admitted near the centre, and pushed off the circumference red hot into a copper vessel of cold water, for purposes before explained. Warm air is admitted freely through the discharge sluice, and fresh cold air can be admitted as desired, either at the furnace, passing over the plate and ores, warm or cold, by side openings, thus securing any quantity of the much desired oxygen so necessary in the desulphurizing process.

For perfect, lasting and rapid pulverizing machines I refer you to the following further extracts from my "Circular:"

"An improvement in the common Stamp Mill, so it can do work either wet or dry, dry being preferable in these processes in their first stages, viz: Making the dies mortar shaped, rounding the stamps to match, cutting a slot from one die or mortar to another half their depth, placing them on a descending grade from the feeding place, so as to compel the ores to pass successively under all the stamps—say from six to twelve in a battery—thus doing more than double the work per hour and twice as well as at present under flat stamps. Battery enclosed tight to keep in the dust.

"A Pulverizer receives the crushed ores from the battery, and passes them through it by gravity, to the roasting furnace. The Pulverizer consists of an iron trough from six to ten inches wide and as many feet long, set with a pitch of fifteen to twenty-five degrees, and provided with five or six iron rollers of twelve to sixteen inches diameter, all geared to roll the ores towards the lower end of the trough. The bearings of the rollers have springs and set screws attached, by which any degree of fineness may be given to the ores. This machine is covered like the battery."

With regard to *smelting* the richer mineral ores I will add that the inexhaustible beds of nitre, soda, alum and sulphur, as well as salt, so often found between the Rocky Mountains and the Sierra Nevada range, seem to have been specially placed by nature in close proximity with the mineral wealth they are destined at no distant day to assist in working out of its crude form in the mine, preparatory to its preparation for the use and convenience of man.

What dwellers in this great mineral basin and its mountain ranges need above everything else, at the earliest possible day, is the entire completion of the Pacific Railroad directly through the centre of this great tract, so that the mines can obtain machinery and food at reasonable rates at their homes. Then will the civilized world be utterly astonished at the outpouring of the treasures of American industry, from a region of country twenty years ago thought to be utterly worthless to mankind in general, with, perhaps, a few Humboldt exceptions.

J. A. HITCHINGS.

Denver, Colorado, June 9, 1865.

Descriptive Catalogue

—OF THE—

INDUSTRIAL EXHIBITION

Of the Mechanics' Institute, 1865.

CONTINUED.

612 John Daly, San Francisco: five Models of Boats.

262 O. W. Easton, San Francisco: lot of Mineral Specimens [See cat. minerals.]

263 L. D. Hoyt, San Francisco: one Soda Apparatus.

264 J. F. Fugazi: one case Perfumery.

265 Hansbrow Pump Co., San Francisco: twelve Pumps.

This exhibition consists of twelve pumps—three each of his double-cylinder, mining, deep well and famous challenge pumps. These pumps are of various sizes, from two to eight inches in diameter of cylinder, and are all substantially mounted, packed and ready for work. Hansbrow's pumps are so well known to this community that nothing can be said in this connection to add to their fame. His famous challenge pump is well known the world over, as having distanced all competitors, and won the medal at the Great World's Fair in London in 1860. It has one other merit in a San Francisco exhibition—that of being a California invention.

266 Craig, Golden & Young, San Francisco: one California made Hearse.

This is a very superior specimen of workmanship, elegant in finish and substantial in character. This exhibit affords the most indubitable evidence that there is no necessity for Californians to go East to purchase anything of this kind. Our own mechanics are fully competent to gratify our most artistic taste in this direction.

270 P. Kelley, San Francisco: one case Cal. Boots and Shoes.

An examination of this case and the several others which adjoin it must satisfy every observer that San Francisco is not behind any city in the world, in either skill or taste, in this line of manufacture.

271 Briguardelo, Michaevello & Co., San Francisco: three cases Macaroni; twenty-four small boxes Macaroni.

This is a fine exhibition of a most useful product, manufactured in San Francisco. Maccaroni and vermicilli, in all their various forms, are made of a very superior quality of flour. The flour employed at this establishment is made from Taganrog wheat, imported expressly for their use from the neighborhood of the Black Sea. The process of manufacturing the article is quite complex and difficult to be described. The article is extensively used by the French, Italians and Germans; not so much by Americans or English, although it is an exceedingly cleanly and nutricions article. It is now made as successfully and of as good quality in San Francisco as in the best factories of Italy. The display at the Pavilion is extensive, elegant and tasteful.

274 Bradshaw & Co., cor. California and Sansome streets: two cases Matches; one lot Matches in tin, California manufacture.

A fine exhibition of California manufacture, showing the blocks of wood first split, one way only, into long sheets; other blocks split also crosswise, and ready for dipping, then the plain sulphur match, and finally the friction match complete, all ready either for the stealthy incendiary to light his midnight torch, or the prudent housewife her fire for the preparation of the morning meal. These matches are variously put up in large or small parcels. For distant transportation they are put up in large tin boxes, and carefully inclosed, air-tight, for safety from outside fire or accidental self-combustion.

275 G. P. Kimball & Co., San Francisco: Doctor's Phaeton; Pic-nic Wagon.

This phaeton is a very superior vehicle, light, neat and easy, just the vehicle needed for the purpose for which it has been constructed. Near by it is a substantial piece of workmanship, without any pretensions at display; but highly suggestive of pic-nics and family parties, and such happy times as those in which we all delight to sing, "Wait for the Wagon." Mr. Kimball is the inventor of "Kimball's patent goose-neck trucks," etc., one of the most convenient vehicles for draught ever introduced to the public.

276 Will & Frink, San Francisco: two cases Cutlery; two Patent Hotel Annunciators.

This firm have made a very fine display of cutlery, manufactured by themselves. Some of the knives are very beautifully ornamented, and deserve special notice. The Hotel Annunciators are of Jackson's patent, for which Will & Frink are the sole agents for California.

277 W. M. Butler, San Francisco: one Base to Dentists' Chair.

278 Goodwin & Co., San Francisco: one Parlor Set, in green, gold and brocatelle, consisting of twelve pieces; one Library Set, in leather—ten pieces; one Side-board; one Etagre; one patent Chair; one rosewood Chamber Set, six pieces

280 V. S. W. Parkhurst, San Francisco: two Store Locks, Miles' Patent.

This lock was invented at Nashua, N. H., and is manufactured by the U. S. Combinntion Lock Co., Springfield, Mass. The exhibitor asserts that there are 3,375 combinations in this one lock, and that people who use it are not in danger of being robbed by burglars or dishonest clerks and servants, from the impossibility of getting the lock open, unless one knows exactly how to do it, which knowledge the owner alone possesses.

283 Adolph Hecker, San Francisco: one Foot Lathe.

284 J. L. Ney, 14 Montgomery street, San Francisco: two Wax Figures; eight pieces of Cloth; four Mantillas.

285 Hirshfeld & Moritz, San Francisco: Gents' Wig in glass case.

286 J. Strelitz & Co., San Francisco: lot of Coffee and Spice.

288 Wm. Ludeman, San Francisco: case Meerchaum Pipes.

289 E. C. Brooks, San Francisco: one Child's Buggy, with Brooks' Patent Spring attached.

Directly opposite the entrance to the Pavilion may be seen a small model buggy, which is attracting much attention, and the peculiar features of which are connected with the springs upon which the body of the miniature vehicle rests. The eliptical and other steel springs, generally used, are here substituted by a simple arrangement of wooden bars, connected with shackles and attached to light spiral springs upon which the weight of the buggy and its load rests, with a large amount of leverage, which gives it great strength and much more elasticity than can be obtained from the springs ordinarily in use. By this device the weight of the load is made to bear at the point where the least strain is brought upon the body of the vehicle, and where it will be found most easy and convenient for the occupant. The spring is entirely concealed from view, and placed so as to render it much less liable to get out of order than those in common use, where numberless small irons and bolts are employed to keep the several parts in place. An attachment of light scroll work may be made to the wood work or braces, giving the vehicle an airy and elegant appearance. The construction of these springs is such as to admit of their carrying great weight. Any further information can be obtained by calling upon the patentee, at 39 Webb street, in this city.

291 Gus. Reis, San Francisco: samples of Silver Ore from Mexico. [See cat. mineral-.]

292 James Steele, 521 Montgomery street: sample crude Petroleum, from Noble's well, Mattole, Humboldt Co., Cal.

293 Knowles & Clarke, San Francisco: one case Dental Specimens.

294 Rubber Clothing Co., San Francisco: twenty eight samples Rubber Clothing; one roll Rubber Sheeting; four Cushions; two Life Preservers; one Chest Expander.

295 McDonald Bros., San Francisco; lot Cedar Boards.

These boards were sawed at Chase's Mills, corner of Market and Beale streets, and are what is called Spanish Cedar. This article of lumber is becoming of considerable importance to this city and State, and is now largely imported from Mexico. It is largely employed in finishing off our first-class buildings, stores, banks, etc., and can scarcely be distinguished from Spanish mahogany. It is also used in large quantities by our furniture manufacturers, and is enabling them to compete quite successfully with importers in their line, and by means of it they will soon effectually drive nearly or quite all foreign and Eastern furniture from the California market. This class of lumber can be had, at all times and in any quantity, of Messrs. Macdonald & Co., the exhibitors.

296 V. Cushing, San Francisco: two Excelsior Pumps.

These are double-acting suction and force pumps, invented in San Francisco, and patented by W. D. Hooker, May, 1865. The vacuum and discharge chambers are cast in one piece, separate from the pump barrel, to which they are attached by four common bolts; by the removal of the bolts the pump is readily taken apart without disconnecting the chambers.

297 Society Natural History, San Francisco: lot of specimens from Big Trees. [See cat. minerals.]

298 Hungerford & Hendy, San Francisco: one Prater Concentrator.

This machine is designed for concentrating ores, and works upon the principle of the difference of specific gravity in the ores submitted to its operation. The machine is fed, near its circumference, by a conical distributor, when by a rapid vibratory motion the lighter particles are caused to separate from the heavier, and work towards the central orifice of discharge; the heavier, which consists of gold, amalgam or sulphurets, is retained at the circumference; the free gold is easily taken out as an amalgam, and the sulphurets removed from time to time as they accumulate, for any subsequent process. This machine was exhibited a year ago, since which time it has been somewhat modified and improved; particularly by the addition of the bars, which may be noticed as radiating from the centre, just upon the surface of the water, where they are placed for the purpose of creating such a kind of agitation as is calculated to cause the precipitation of any such fine particles of quicksilver as may be floating upon the surface. This machine is being rapidly introduced into various portions of the mines.

299 Josiah Hendy, San Francisco: two Blow Pipes. [See cat minerals.]

These blow-pipes are constructed with valves, by means of which a small India rubber bladder is filled with air from the mouth, which, by the contractive force of the bladder, is thrown out of the small orifice of the blow-pipe in a continuous stream. This flow of air is also held under the control of the operator by means of his finger, which, when pressed upon the neck of the bladder, either reduces the current or entirely cuts it off, as may be desired.

301 J. A. Bauer, San Francisco: one case Preparations—gold, silver and copper. [See cat. minerals.]

302 A. Hunter, San Francisco: one case Sulphurets. [See cat. minerals.]

304 W. S. Thompson, San Francisco: one Family Carriage.

305 C. A. Fletcher, San Francisco: three suits Boys' Clothing; one Boys' Coat; one Boys' Cloak.

306 A. Graham, Puca Straits, W. T.: one piece Coal. [See cat. minerals.]

307 W. R. Frind, San Francisco: lot of Mineral Specimens. [See cat. minerals.]

308 James Longshore, San Francisco: two Trunks; two Valises; four Carpet Bags. The Valise glass case is entered for competition.

All the articles in this exhibition are of California manufacture. Mr. Longshore is one of the pioneers in California manufacturing industry. His goods are generally noted for their durability, style and superiority of finish. The interior arrangement of his trunks is generally very superior. Mr. L. is himself a practical workman, and by his individual enterprise and energy has introduced into this city an important branch of industry, and built up a good and paying business for himself.

309 Logan & Co., San Francisco: one case Fancy Goods.

310 Wm. Harriman, San Francisco: two Top Buggies.

These buggies are from the Carriage Repository of Wm. S. Thompson, 749 Market street.

311 G. W. Gibb & Co., San Francisco: one case California manufactured Colors.

These colors are all manufactured at the Pacific Color Works, in this city, and from minerals obtained on this coast. The yellow ochre is obtained from Mariposa county, the new senna from Santa Clara, rose lake from Guaymas. Bone ash or burnt bones are used for making a black color. Dry colors and furniture polish are also exhibited. The Pacific coast appears to be unusually productive in material for mineral paints.

314 John Panie's, San Francisco: one Marble Mantel Piece.

This mantel-piece is manufactured from the celebrated Vermont Statuary Marble, which is considered equal, if not superior, to any other marble on the continent. The beauty, chasteness and finish of this piece of workmanship is worthy of especial notice.

315 Thos. Varney, San Francisco: one Amalgamator.

This is one of the pans which was involved in the famous "Varney-Wheeler pan case," which recently occupied quite a prominent position in our courts. The pan on exhibition is of working size, and is geared up to its exact working speed when on duty at the mill. These pans are known, on the Pacific coast, wherever quartz mining is carried on to any considerable extent. The principle on which these pans are constructed, and their mode of working, is too well known to the public to need any special description at this time.

317 Mrs. Col. Coffee, San Francisco: six Indian Dolls.

These curiosities were picked up on the San Bernardino desert, near an old rancheria, and are the work of Indian women. It will be noticed that they are dressed in the Mexican style. The manner and style of their getting up is worthy of especial observation. Their faithfulness to nature could scarcely be excelled, even by white fingers.

318 Horace Collier, San Francisco: one Fly Trap.

319 G. K. Porter, San Francisco: four cases Boots.

321 J. Joseph & Co., San Francisco: one boys' Zouave Suit.

322 Josiah Hendy, San Francisco: drawing and plans of Hendy's Gang Circular Saw Mill; two Circular Saw Guides.

324 Thos. H. Morrow, San Francisco: one case Gravel Specimens, from the American North San Juan Co., Nevada Co., Cal. [See cat. minerals.]

326 J. M. Beath, San Francisco: one Quartz Grinder.

This grinder consists of a square box, in which is placed a cylindrical cone of iron, which is made to revolve horizontally upon its axis. This cylinder is formed, as it were, of a series of bars of iron, held together much after the manner of a section of grate bars, the openings, however, placed at an inclination of about 45 degrees from the centre of motion. As this cylinder revolves, two wings are made to shut down upon it from either side toward the centre. The box is filled with pulp of the usual fineness and consistency of that which is placed in the ordinary pans. By the rapid motion which it is found can be communicated to this machine, it is capable of doing a large amount of work, and, as a triturator, in a most effectual manner. Its construction is such that it does not necessarily require the rock to be stamped as fine as is needed by the ordinary pans. This machine is now coming into quite extensive use.

328 San Francisco and Pacific Refinery: samples of Sugar.

This exhibit consists of various kinds of raw sugars, together with the manufactured article in loaves, crushed and pulverized, and samples of syrups. The display is very tasteful and highly creditable to that important manufacturing establishment.

331 Dewey & Co., Mining and Scientific Press Job Printing Office, cor. Sansome and Clay streets, San Francisco: one doz. Quartz Operators Hand Book; four bound volumes Mining and Scientific Press, as specimens of newspaper printing.

The attention of visitors is called to this exhibition of the bound volumes of the MINING AND SCIENTIFIC PRESS, copies of which can be had at the office of publication, corner of Clay and Sansome streets, or by application at the publication stand of the DAILY FAIR PRESS, in the Pavilion. The "Quartz Operator's Hand-Book" can also be had at the same places.

333 W. B. J Kenney, cor. Sacramento and Montgomery streets, San Francisco: six new Mammoth Fountain Pens; six Book keeper's Pens; six Bank Pens; six Corresponding Pens; six Mammoth Pens; six Accountant's Pens; six Gents Revolving Pens; three Ladies' Tablet Pens.

The "New Superior Fountain Pen," as it is called, in this collection, is especially worthy of notice. The fountain being placed on the back of the pen, is thereby kept out of the way of the paper, and the ink will, by its own gravity, *fall* into the pen, instead of having to be drawn *upwards*, as in the other "fountain pens." It is claimed that the Superior Fountain Pen will hold fluid enough to write two pages of foolscap by one dip of the pen.

335 Devoe, Dinsmore & Co., San Francisco: sixteen piece Grate Bars, W. W. Tupper's Patent.

The chief superiority especially claimed for this grate is, that its trnss, or main support and strength, is independent of the grate bars themselves, and consequently not affected by the heat or expansion of the grate surface. The air openings of the grate sections are also so formed as to best maintain their original form under the expansive action of heat; any one or more of the sections can also be readily replaced when desired, with but little trouble, and no interference with any other section. The grate can neither warp, bag down nor break. It is claimed that it will make a larger percentage of steam, do more service with less weight of metal in the grate, than any other in use.

336 Bargion & Johnson, San Francisco: one model Rock Crusher.

This invention is entirely new, having never yet been put into practical operation. It is extremely simple in its operation, yet very difficult to describe without a diagram. It consists, first, of a cylinder, oscillating upon its centre, with an arm projecting upward, at the top of which is fixed a slide-box with a crank, by which the oscillating motion is given to the cylinder. This cylinder is suspended in a frame upon its axis, having two corrugated rubbing faces. There are then two oscillating dies, one upon either side of the cylinder, swung also upon their axis, and within and supported by the frame, and oscillated by means of a shaft running through the lower part of each die, both being connected by an angular arm with the axis of the cylinder, which arm may be seen upon the outside of the frame. The oscillation of the lower part of the dies is obtained by a crank fixed in the cylinder axis, immediately below the centre of oscillation, which gives the dies their crushing (oscillating) motion, the same being less than the sixteenth of an inch, through which small space all the rock put into the machine must pass. The rock passing immediately between the two motions, receives the pressure of the dies acting upon the cylinder, by which it is very finely and rapidly pulverized. The levers referred to are constructed of wrought-iron, which enables the inventor to obtain a large amount of strength, with a very small weight of iron. Both mullers and dies are so constructed that the crushing surfaces can be renewed when too much worn for effectual service; and as they gradually wear away, that abrasion is taken up by means of keys, which may be adjusted as often as necessary, and without even stopping the machine. This crusher is double-acting, being fed upon both sides, thereby allowing of no loss of motion—an important consideration in the amount of work which may be done. The machine, as a whole, is made compact and durable, and of comparatively little weight, in comparison to its efficiency.

337 Wm. Trumbull, San Francisco: lot Horse Collars.

These collars represent all the various styles and qualities, from the substantial manufacture for the heavy draught horse, to the neat and elegantly made patent leather collar for the light buggy or more elegant carriage.

338 James Longshore, San Francisco: two Valises; two Carpet Bags.

339 L. C. Hunter, San Francisco: specimens of Lava from Sandwich Islands. [See cat. minerals.]

341 E. T. Steen, San Francisco: one Steam Engine.

It has been the effort of the maker of this engine to so combine its materials as to obtain the greatest strength with the least weight of metal. It is of twenty-five-horse power, and no piece, except the fly-wheel, weighs over 550 pounds. It can be put up right or left hand without altering a single piece in its combination. The piston requires no adjusting, is always steam-tight, and will not cut the cylinder. It is worked with Reynolds' patent cut-off, which, it is claimed, effects a saving of from twenty to fifty per cent. of fuel, and also operates as a perfect regulator.

343 Wm. M. Butler, San Francisco: one Barber's Chair.

345 A. Grimm, San Francisco: samples of Hair Rejuvenator.

348 H. J. Booth & Co., San Francisco: one Russia Quartz Screen; one Woodward's Steam Pump.

The quartz screen is exhibited just as it came from the punching machine, without being rolled, showing the excellent workmanship and the superiority of the working of this machine.

The principal points of advantage claimed for these pumps is simplicity of construction, facility of access to all the valves, durability of all the working parts, and small amount of space occupied. The pumps are designed and constructed so as to allow of being used to drive machinery; they require but a small amount of power. As to their success, no further comment is needed than the sincere statement that they are in use by most of the best mills throughout the country, and by Government ships generally.

349 W. R. Eckart, Union Iron Works, San Francisco: one Cut-off Valve Indicator.

This invention consists of a silver indicator for showing the position of Moyers' cut-off, (the kind in general use,) relative to that of the link motion or variable stroke of the main valve. Mr. Eckhart claims that this has never before been accomplished by any mechanical contrivance. The machine is extremely fine in construction and appearance, but can be fully understood only by a practical engineer or machinist.

350 Caleb M. Sickler, San Francisco: set Stove Furniture; twenty-one Milk Cans; two Measures, all California make; one Cylinder Boiler; two Stoves; one Putnam's Wringer.

The stove, furniture, milk cans and measures are of a California manufacture.

351 Vulcan Iron Works Co., San Francisco: one double piston Steam Engine.

This engine was manufactured by the Vulcan Iron Works company. It is designed to supply a larger power with a light weight of material for convenience of transportation. By the use of two pistons in one cylinder, a high speed of piston is obtained, with perfect safety and steadiness of motion—equal to double the power of single piston engines of the same diameter of cylinder.

The steam being admitted between the pistons, drives them apart with equal force; and again being admitted to both ends of the cylinder at the same time, and by the same movement of the valve, it drives the pistons towards each other again with equal force. These two forces being applied at the same time to the double crank, exerts the whole power of the steam without any strain on the bed-plate, or any friction on the crank shaft journals. Thus the whole power of the engine is brought direct to its work, and the friction reduced to the smallest possible quantity; besides the advantage of a high motion at first speed, obviating the necessity of counter shaft and belts, with their friction. At 300 feet of piston speed, this engine

equals 28-horse power, but 40-horse power can be obtained with perfect safety and durability.

335 Marwedel & Otis, 329 Bush street, San Francisco: one show-case: Hardware and Mechanics' Tools.

This is an exceedingly neat and creditable show, including door-plates, cranks for door-gongs, numbers, and various instruments for delicate mechanical use.

357 A. Kohler, San Francisco: two cases Fancy Articles; one case Musical Instruments; one Bronze Statuette; lot Vases; two Covered Glass Jars; two Drums.

358 Kirby & Co., Santa Cruz: one Warren Hide.

360 W. G. Jones, San Francisco: lot Resin; one bottle Turpentine. California manufacture.

Both the rosin and turpentine are very superior articles, and fully demonstrate the capacity of California to produce these articles, not only for her own use, but also for exportation. They were manufactured by Mr. W. G. Jones, of Dogtown, Butte county. Mr. J. R Stewart is the agent of the manufacturer in this city.

362 W. T. Garratt, San Francisco: nine large Church Bells, with Garratt's Improved Hangings; one Ship Bell; Garratt's Patent Rose Couplings and Bands for mining purposes; Hydraulic Pipe and Nozzle; Steam Whistles; Steam Gauges; Water Gauge, with glass tube; Magnetic Gauge; Steam Globe Valves; Flange, Steam, Water and Gas Cocks; Oil Cocks and Pumps, with variety of other brass goods; samples of Garratt's Patent Anti Friction Metal.

The above entry is one of the fullest and most noticeable in the Pavilion. The large church bell which he exhibits is equal in tone and finish to any ever imported, and is the largest size which has ever been attempted on this coast. The finish and quality of work exhibited by Mr. Garratt will compare favorably with the product of any similar manufactory abroad, whether in the Atlantic States or Europe, and fully attest the capacity of our own artificers in brass to furnish everything needful in this important branch of industry at home. Mr. Garratt's globe valves are particularly noticeable for their superior style of finish, durability and safety.

386 J. P. Goodwin & Co., San Francisco Parlor Set, in plush, eight pieces.

369 Dellwig & Bro., San Francisco: one case Confectionery.

A very fine show of nice things to tempt and gratify the appetite. The bridal loaf with its emblematic pipe of peace and anchor of hope, is elegantly ornamented, and no doubt rich in the more substantial ingredients of its interior.

370 Taylor & Ireland, San Francisco: one Stove, "Fire King," California manufacture; one Stove, "Peacemaker," imported.

This stove was invented and manufactured in San Francisco. It presents a greater variety and a more perfect combination of principles than any stove ever before devised. Its chief features are corrugated oven plates, by which an increased percentage of heat is obtained over plain ones; a tubular or hollow fire grate, which admits a constant current of air, is made to pass constantly through each bar and cross-piece of the grate, thereby greatly retarding the destructive process of the heat upon the same; a caloric or hot-air chamber, into which the air that is heated by passing through the grate bars is conveyed, and from which it is conducted, by convenient arrangements, either into the oven to increase the heat for baking and roasting, or, by proper conductors, into any other part of the house, for heating rooms; or, if wanted for no other purpose, it is used as a hot air blast beneath the fire grate. There are several other points of novelty and interest connected with the economy and working of this stove, which Mr. Taylor, who is usually present in the evening, will fully and freely explain to visitors. When California goes in for anything, no matter what it is, she is always expected to distance all competitors. The invention of this stove has not suffered her to lose prestige even in so common a combination as a cooking stove.

374 Wm. Barnes & Son, 509 Broadway, San Francisco: three Canary Cages.

375 Easton Brothers, two Secretaries.

376 Rufus Howland, San Francisco: one Tree Nail Machine.

This machine is employed for turning treenails, or the wooden pins employed in ship building. This machine has been greatly improved by Mr. Howland, the exhibitor. His improvements consist in an entire change of the construction of the main parts of the machine, rendering it more compact and effective. The main improvement, however, consists in the cutter head, which is so arranged as to be much more easily and readily adjusted than any hitherto employed, and by which a treenail of any size needed in ship building may be readily turned. This machine is also calculated to run with nearly three times the speed usually employed in such machines.

379 Chas. Bernard, San Francisco: lot Coffee and Spices.

This is the celebrated "Chartres" coffee, manufactured at 707 Sansome street, San Francisco. The exhibitor shows coffee raw, roasted and ground; put up in paper for immediate use, and in tin or air-tight cans, for transportation. He also exhibits a variety of spices, ground and put up at the same establishment.

382 Atwood & Bolwell, San Francisco: one Self-Regulating Wind Mill; one Rotary Wind Mill.

Among the innumerable improvements constantly being made in every class of machinery, the windmill, old and simple as it is, is not overlooked. Scarcely a year passes away without bringing something new, either in style or principle, in connection with this cheap and universal power. The great excellence claimed for Atwood's principle of construction, as exhibited last year and again at the present exhibition, is its self-regulating arrangement, which is based upon centrifugal motion, and operates precisely the same as the ordinary regulator of a steam engine. Connected with each arm or fan is a sliding rod, running parallel therewith, and upon the end of which is an iron ball weighing four or five pounds. As the speed increases, these balls have a tendency to fly outwards, and as they do so, each ball brings the fan with which it is connected, more with its edge to the wind, thereby regulating the speed precisely to the power required. Mr. Atwood also now, for the first time, exhibits another improvement, which consists in stationary fans placed upon a revolving frame, which, when desired, is set to turn so as to always present the fans to the greatest force of the wind; when the full force of the wind is not wanted, the mill, by a simple contrivance, which may be worked by a child, and upon the ground, may be so placed as to take any desirable fraction of the force of the air current.

385 Samuel Hill, agent Florence Sewing Machines, 11 Montgomery street, San Francisco: one lot Sewing Machines.

The following are the advantages claimed for this machine by the inventor and agents: It makes four different stitches, the *lock, knot, double lock,* and *double knot* on one and the same machine, each stitch being *alike on both sides* of the fabric. Every machine has the *reversible feed motion*, which enables the operator, by simply turning a thumb-screw, to have the work run either to the right or left, to stay any part of the seam, or fasten the ends of seams, without turning the fabric. Changing the length of stitch, and from one kind of stitch to another, can readily be done while the machine is in motion. Its motions are all *positive;* there are no springs to get out of order, and its simplicity enables the most inexperienced to operate it. It does not require finer thread on the under than for the upper side, and will sew across the heaviest seams, or from one to more thicknesses of cloth, without change of needle, tension, or breaking thread. The hemmer is easily adjusted, and will turn any width of hem desired. It will hem, fell, bind, gather, braid, quilt, and gather and sew on a ruffle at the same time. With precision and accuracy the Florence draws the thread into the cloth.

386 Mrs. Cullen, Mrs. Damon and Mrs. Gale, San Francisco: samples Sewing Machine Work.

389 Ridley & Kimball, San Francisco: two Pianos; one 5 octave piano style Melodeon; one 5 octave scroll leg Melodeon; one 4½-octave Church Harmonium.

301 C. A. Fletcher, San Francisco: Boys' Suit on frame.

394 C. M. Van Reed, San Francisco: nineteen curiosities from Japan. [See Art Gallery cat.]

395 L. Prevost, San Jose Nursery: seven boxes Silk Worms and Cocoons.

Mr. Prevost is the pioneer silk culturist of California. He made a small exhibition last year; but his present exhibit is far more imposing, and shows a progress highly creditable to his industry and indicative of a rapid future growth of silk culture in California. His collection of cocoons is very large and unusually fine. He also exhibits in connection therewith samples of the silk-worm and the leaf upon which they live, the eggs from which it is hatched, and the butterfly into which it changes when it leaves the cocoon; also the cast-off carcass which they leave behind. Mons. Prevost commenced the culture of the silk-worm in 1860, and the present year he will have fully 100,000 cocoons. His labors thus far have been chiefly experimental; but his experiments have resulted in fully demonstrating the most superior adaptability of California, both in climate and soil, to the culture of the silk-worm.

396 Dr. D. R. Beckford, San Francisco: one case Golden Eye Water.

397 E. J. Cummings, San Francisco: two jars Preserved Fruit, six years standing.

This lot of fruit was put up six years ago. The perfectness with which it has been kept for that length of time speaks well for the manner in which it has been put up.

398 Theodore Van Tassel, San Francisco: one case Silk Hats.

The taste and finish of this case of hats can hardly be excelled anywhere.

399 J. A. W. Lamborg, San Francisco: one case Spring Flower Dentifrice.

404 Gallagher, Weed & White, 125 First street, San Francisco; specimens of Brass Castings; lot Sheathing Nails.

This exhibit is intended to show the manner in which small articles of brass and copper are cast—a large number of them being strung together in one casting. The mode of casting the nail is particularly worthy of notice.

406 Wm. Brucknar, San Francisco: one rotary Roasting Furnace.

This furnace has been devised to simplify and cheapen the process of desulphurizing auriferous and argentiferous sulphurets. It dispenses with the large and cumbrous reverberatory hearth, and tall and expensive chimney necessary for getting up a suitable draft. The laborious and tedious process of hand stirring is also obviated. The furnace consists of a cylindrical iron grating, lined with brick, and having an orifice at each end about one-third the diameter of the cylinder. Upon the inside of the cylinder will be noticed a winding ridge, or riffle, the object of which is to distribute the ore and keep it constantly exposing fresh surfaces to the action of the flames, as the cylinder is made to revolve. This revolution may be produced in any convenient manner. In the one on exhibition it is caused by an endless chain passing over a revolving pulley. The cylinder rests upon friction rollers, upon which it is caused to revolve instead of upon an axis. A small furnace is placed at one end, from which the flame is caused to pass into and through the cylinder; atmospheric air is also allowed to pass freely into the cylinder to hasten the process of desulphurization. The first cost of construction, the cost of fuel for continuing the operation, and that of labor for attendance, and time occupied in the process, are all vastly reduced. We are not aware that it has yet been subjected to any protracted, practical experiment; but we can see no reason, either mechanical or philosophical, which shall militate against its successful introduction against the ordinary reverberatory hearth, for desulphurizing ores. It is well worth the careful examination of all parties interested in metallurgical operations

407 Peter Thompson, San Francisco: one box Lettuce.

409 F. Williams, San Francisco: one lot Curtis' Yeast Powder.

410 Newman Bro., six pieces Willow Furniture.

This exhibit consists of two settees, one rocking chair, one arm-chair, and two small chairs—all made of willow.

412 John Dean, San Francisco: one bottle California Brandy, made in Sacramento.

413 Marsh, Pillsbury & Co., San Francisco: one case Hardware, J. E. Blackmore manufacturer; four Weather Vanes; lot Lead Crucibles, Horton Chucks; lot solid Emery Wheels.

This display consists of a large assortment of carpenters' and machinists' small tools and engineers' instruments, cutlery, black lead crucibles, etc. The exhibition is very neat and creditable.

415 A. Conrad, San Francisco: two Desks; one Chair.

417 J. A. Hobart, Oakland: one large size Hutchinson's Cider and Wine Mill.

418 N. S. Barton, San Francisco: one Boston Corn Sheller

419 Josiah Deady, San Francisco: one lot gang and circular sawed Lumber.

This lot of lumber was sawed by one of Hendy's Gang Circular Saw Mills; the only mill that saws dimension lumber direct from the log by one movement of the carriage. Parties interested will do well to examine this lot of lumber carefully, and notice the evenness of dimension with which it is sawed. On comparison with lumber cut by the ordinary circular saw, this feature in the work of the "gang saw" will be at once apparent.

420 Wesson & Kimball, San Francisco: one lot Lumber.

This lot of lumber was cut by the ordinary circular saw.

422 Wm. P. Harrison, agent San Lorenzo Paper Mill: lot Straw Paper; lot Board Paper; lot Newspaper.

423 Wm. P. Harrison, San Francisco: one case of Electrotyping.

424 C. Roberts & Co., San Francisco: one Mining Car; one Mining Wheelbarrow; two Canal Wheelbarrows.

This car was manufactured by the exhibitor, in this city, and is a substantial piece of workmanship, well calculated for the rough work for which it has been devised. The further end is hung upon a pivot, with a catch at the bottom, which is worked with a crank from the opposite end, making the matter of "dumping" perfectly easy and convenient for the car-man.

425 H. T. Graves & Co., San Francisco: Wire Summer House; two rolls California manila brass wire Quartz Screens; Ore Screen; Grape Stove; Coal Screen; Sand Screen; two brass Feeders; seventeen rolls Iron Wire Cloth; six round Rat-Traps; fifteen Foundry Rabbits; lot of Flour Sieves; lot Wire Frames and Stands; Cheese Safe; Wire Screen for doors and windows.

This is a very fine exhibit of wire goods, of almost every description, all manufactured at the wire goods factory of the exhibitor, in this city. The work is fully equal to the best imported, and attests to the most complete success in this useful branch of our home industry.

426 F. Morris & Co., San Francisco: large specimen gold and silver bearing Quartz. [See cat. minerals.]

427 The Singer Manufacturing Co., 139 Montgomery street, San Francisco: five "Letter A" Family Sewing Machines, inclosed in folding cases; eight "Letter A" Family Machines with folding covers; one "No. 3" Standard Vibrating Presser Machine, for harness and carriage trimming; four "No. 2" Standard Machines, for general manufacturing work, such as tailoring, boots and shoes, etc.; one old style Cabinet Family Machine.

It is contended by the proprietors, that while this machine possesses the general features of utility belonging to all the other sewing machines now in popular use, it also has a Folding Case, the advantages of which are: First—protection to the machine when not in use. Second—it makes a fine table when it is in use for the work to rest upon. Third—the whole case, inclosing its treasure of mechanism, is not only ornamental, but useful in the highest degree. Attached is a vibrating Foot Presser, also, which boasts three important features of superiority, to wit: First—the use of this Foot Presser obviates the necessity of oiling the material to be sewn in order to facilitate the operation of feeding it. Second—the vibrating Foot Presser, unlike the stationary foot, when patent or enameled leather is being sewn, leaves no mark or trace behind it, not even on the finest enameled leather. Third—the vibrating Foot Presser (which is used in all kinds of fancy stitching), permits any curve to be turned while the machine is in motion.

428 C. A. Fletcher, 1 Montgomery street, San Francisco: one Youths' Embroidered Suit, entered for competition.

429 C. C. Keeno, San Francisco: one case of Accordeons and Flutenas.

This exhibitor was awarded the first premium, last year, for his home manufactured flutinas and accordeons, which the committee last year pronounced, in their report, "superior to any which we have ever seen." His present exhibition is fully equal to his last.

430 Devoe, Hinsmore & Co., cor. Fremont and Mission streets, San Francisco: two Grate Bar Patterns.

432 J. H. Hammond, San Francisco: one Uniform Suit; one Gents' Business Suit; one Gents' Dress Suit.

There is a merit connected with this exhibition of clothing, apart from the durability of material and excellency of make. The stock is of California growth and manufacture, the cloth having been manufactured at the Mission Woolen Mills, and from California wool.

433 Deming & Co., San Francisco: one lot of Howe's Sewing Machines.

This machine was patented in 1846. There is an improvement to prevent the missing or dropping of stitches; also to prevent the breaking of needles; also, an adjustable cloth presser foot has been added, which enables the finest hemming to be done without the use of a hemmer. These machines sew silk, cotton, or linen thread, from delicate gauze to harness leather.

434 Jules Rollard, San Francisco: one Bed Lounge, entered for premium.

This lounge is entered for a premium. It is of an extension make, arranged to close up in a very neat and compact manner. Both the cabinet and upholstery work has been done in a very creditable manner.

436 P. Diesenfield, San Francisco: one Billiard Table.

The cabinet work of this table is elegant and most unexceptionable, and it is presumable that its playing qualities are in no wise inferior. As a piece of California workmanship, it is most especially worthy of notice, and will not suffer in comparison with similar work from any manufactory.

437 A. Berzerot, San Francisco: two Stamps.

438 A. Folsom, San Francisco: one Safe.

440 I. D. Thompson, 321 Montgomery street, San Francisco: one lot American Liquors.

This exhibit presents a very neat and tasteful display. It consists of California white wine and red or claret wine, both manufactured by Mr. Isaiah Branham, of San Jose; of Bourbon bitters, manufactured in this city, by the exhibitor, and apple brandy and four kinds of whisky, imported. Mr. Thompson is an extensive importer of liquors, the choicest brands of which, both of home manufacture and imported, may always be found at his place of business, No. 321 Montgomery street.

444 J. L. Noy, San Francisco: one Silk Basque.

445 Mullear & Bender, 123 Kearny street, several self-regulating Bench Planes, George Mullear inventor, San Francisco, patented 1865.

This device is designed to avoid the delay and inconvenience experienced from the clogging of the plane, as ordinarily constructed. With this improvement it is impossible for a plane to clog. The cutting iron being firmly held, no vibration can occur, consequently the tool accomplishes its work much neater, and requires less force, than with the instrument now in general use.

440 Wheeler & Randall, San Francisco: one Excelsior Amalgamator.

This is a medium or prospecting size pan, of the Wheeler & Randall tractory pattern. Its peculiarity consists in having grinding surfaces so constructed (according to the aim of its inventors) to wear equally at all points. The tractory curve has long been known, and relics have been found which go to show that it was applied to the grinding of wheat as far back as the early days of Rome. Tractory conoidal plates differ essentially in form from plane circular and from conical plates; and if there is any dependence to be placed upon mathematical demonstrations, as applied to mechanical effects, it would appear that there is also a marked difference of efficiency, as well as in form, when these plates are applied to grinding purposes of any kind.

447 Geo. M. Wood, San Francisco: one show case, containing samples of engraved Door Plates, Seals, Stamps, &c.; one Seal Press, and lot of Diamond Cement.

This show case opens in the back, so as to exclude all dust and rain; it is especially adapted to fasten outside, where it will be exposed to the weather. The Diamond Cement is for mending glass, china or earthenware.

The cement, exhibited, it is claimed, will mend broken glass, china, or earthen china ware. The show case opens on the back, and is made so as to exclude all dust and rain, and is especially adapted to post up outside of a press door, where it will be exposed to the weather.

449 R. Liddle & Co., 538 Washington street: three cases Sporting Goods; one rack of Muskets, Swords, &c.

These articles are entered for competition. They embrace a very fine display.

450 S. O. Brigham, 111 Montgomery street: one case Stamps for braiding and embroidery work.

These stamps are said to be the latest and best in use, and stamp clear and plain. They are made by the exhibitor, and are entered for competition and premium.

451 Strong & Co., Main street, between Folsom and Harrison, San Francisco: one Union Amalgamator.

The peculiarity and superiority especially claimed for this amalgamator is its double grinding surfaces with reverse motion, and the peculiar manner in which the mullers are attached to the arms. The double grinding surfaces are obtained by having two sets of mullers running in opposite directions, and so arranged as to form a grinding surface between themselves, and another between the lower mullers and a set of dies, as ordinarily affixed to the bottom of the pan. The mullers are attached to the arms by ball and socket joints, by which the pressure is at all times equal and self-regulating. The peculiar motion of the mullers establishes a strong rotary current, from the top to the bottom of the pan, just sufficient to produce the proper flow of the pulp from, to and through the several grinding surfaces, without any other aid than the mere motion of the mullers themselves.

452 W. Bradley, San Francisco: one Banjo.

This instrument is of California manufacture, and is a most creditable piece of workmanship.

458 Kerby, Byrne & Co. San Francisco: one Velvet Circular; two plaid Circulars; one Silk Basque; one Silk Sacque; one case Silks.

This exhibit attracts large crowds of ladies, who appear to never tire of examining the rich array of elegant silks, laces, cloaks and domestic goods, which are here so tastefully and temptingly displayed. The goods are all of the latest and most exquisite styles, and of patterns and colors best suited to refined and cultivated tastes. A very elegant description of cloak is exhibited, of a style introduced last year, and which is expected to receive the stamp of popular favor during the present season. The ladies all pronounce it "splendid." It is really magnificent. They also exhibit several cloaks of their own manufacture. The taste and judgment displayed in the selection and arrangement of that elegant case of goods reflects the highest credit upon this well known and popular firm. After examining the elegant display at the Pavilion, the ladies cannot fail to take a look at their extensive assortment, at No. 7 Montgomery street.

[To be Continued.]

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, August 19.

212 shs Chollar at 506@507½ per foot.
16 shs Potosi at 475@471 per foot.
144 shs Daney at 62½@65 per share.
11 shs Yellow Jacket at 1340@1360 pr foot.
1 sh Yellow Jacket at 1350 per foot, s 3.
48 shs Ophir at 390@485 per foot.
5 shs Uncle Sam at 215@216 per share.
9 shs Savage at 1400@1380 per foot.
12 shs Crown Point at 1200@1190 per foot.
4 shs Crown Point at 1000 per share, b 16.
4 shs Crown Point at 1200 per foot, b 3.
8 shs Crown Point at 1200 per fool, b 10.
3 shs Belcher at 860 per foot.
1,10 shs Imperial at 265@250 per share.
24 shs Burning Moscow at 34½@34 per sh.
10 shs Burning Moscow at 34 per share, s 3.
10 shs Real del Monte at 12½ per foot.
20 shs N. American, Ex Sam, at 20 per sh.
11 shs Empire M. & M. Co. at 420@415 pr sh.
10 shs Exchequer at 44 per share.
105 shs Exchequer at 45 per share, b 3.
32 shs Bullion at 171@180 per share.
10 shs Bullion at 175 per share, b 30.
4 shs Confidence at 133 per share.
4 shs Sierra Nevada at 18 per share.
100 shs Spring Valley W Co at 51 p ct, s 30
14 shs Spring Valley W Co at 51¼ per cent.
100 shs Spring Valley W W at 50 per ct, s 60.
Amount of sales.....$156,259 00

Monday, August 21.

18 shs Ophir at 390 per foot.
4 shs Gould & Curry at 1475 per foot.
2 shs Hale & Norcross at 500 per foot
1 sh Yellow Jacket at 1350 per foot.
1 sh Yellow Jacket at 1355 per foot.
8 shs Crown Point at 1225 per foot.
16 shs Crown Point at 1240 per foot.
4 shs Crown Point at 1235 per foot.
16 shs Chollar at 500 per foot.
40 shs Chollar at 505 per foot, b 30.
12 shs Chollar at 500 per foot, s 3.
20 shs Chollar at 505 per foot, b 20.
36 shs Chollar at 495 per foot.
8 shs Chollar at 500 per foot, b 3.
24 shs Daney at 65 per foot.
104 shs Daney at 70 per share.
16 shs Daney at 74 per share.
20 shs Daney at 71 per foot.
140 shs Daney at 75 per share.
10 shs Daney at 67½ per foot, s 30.
3 shs Alpha at 1525 per foot.
4 shs Alpha, G H, at 1500 per foot.
6 shs Uncle Sam at 213 per foot.
5 shs Uncle Sam at 215 per foot, b 10.
5 shs Potosi at 455 per foot, b 10.
4 shs Potosi at 455 per foot.
4 shs Potosi at 460 per foot, b 3.
1 sh Savage at 1300 per foot.
15 shs Imporial at 257½ per share.
20 shs Imperial at 255 per share.
5 shs Imperial at 255 per foot. r w.
20 shs Imperial at 260 per share.
56 shs Imperial at 258 per share.
1 sh Imperial at 257 per share.
5 shs Imporial at 250 per share, s 30.
3 shs Empire M. & M. Co. at 410 per share.
5 shs Exchequer, at 45 per share, b 3.
40 shs N. American, Ex Sam, at 20 per sh.
30 shs N. American, Ex Sam, at 30, h 30.
35 shs N. American, Ex Sam, at 29, b 3.
50 shs Caledonia Tunnel at 6 per sharo.
30 shs Caledonia Tunnel at 6 per sh. b 3.
10 shs Bullion at 175 per share,
20 shs Lady Bryan at 3 per sharo.
4 shs Confidence at 134 per share, r w.
40 shs Charles Cany at 7 per share.
10 shs Wide West at 8¼ per share.
100 shs Soring Valley W W at 50¼ per cent.
1 sb Cal. Steam Nav. Co. at 79 per ct.

AFTERNOON SESSION.

48 shs Chollar at 500 per foot.
60 shs Chollar at 500 per foot, s 30.
4 shs Gould & Curry at 1475 per foot.
36 shs Ophir at 390 per foot.
20 shs Daney at 75 per foot.
20 shs Daney at 77½ per foot.
20 shs Daney at 80 per share, b S.
40 shs Daney at 80 per foot.
40 shs Daney at 81 per foot, r w.
60 shs Daney at 78½ per foot.
20 shs Daney at 78 per foot.
4 shs Hale & Norcross at 610 per foot.
8 shs Alpha at 1500 per foot.
4 shs Alpha, G H, at 1500 per foot.
8 shs Alpha at 1515 per foot,
4 shs Alpha, G. H., at 1520 per foot.
4 shs Alpha, G H, at 1517½ per foot.
4 shs Alpha, G H, at 1525 per foot.
4 shs Alpha at 1530 per foot.
12 shs Crown Point at 1250 per foot.
4 shs Crown Point at 1245 per foot.
7 shs Yellow Jacket at 1400 per foot, b 30.
2 shsYellow Jacket at 1370 per foot.
10 shs Potosi at 460 per foot, b 5.
84 shs Potosi at 465 per foot, b 10.
22 shs Potosi at 462½ per foot.
15 shs Imperial at 245 per share, s 10.
2 shs Imperial at 257½ per share.
10 shs Potosi at 257½ per foot, s 10.
15 shs Imperial at 258 per share, s 10.
20 shs Imperial at 260 per share, r w.
70 shs Imperial at 260 per share.
11 shs Imperial at 256 per share, b 3.
20 shs Buckeye at 6½ per share.
2 shs Empire M & M Co at 410 per share.
30 shs Sierra Nevada at 18 per share.
$1,000 Legal Tender Notes at 74¼.
Amount of sales.....$197,132 00

Tuesday, August 22.

48 shs Ophir at 375 per foot.
120 shs Ophir at 370 per foot.
24 shs Ophir at 365 per foot.
8 shs Chollar at 495 per foot.
8 shs Chollar at 493 per foot, s 3.
10 shs Hale & Norcross at 520 per foot.
50 shs Daney at 80 per foot.
40 shs Daney at 80 per foot, 30 d.
40 shs Daney at 78 per foot.
12 shs Daney at 77 per foot.
44 shs Daney at 77½ per foot.
28 shs Daney at 75 per foot.
20 shs Daney at 72½ per foot.
40 shs Daney at 70 per foot.
3 shs Yellow Jacket at 1390 per foot,
2 shs Yellow Jacket at 1400 per foot.
1 sh Yellow Jacket at 1405 per foot, s 6.
4 shs Yellow Jacket at 1420 per foot.
1 sh Yellow Jacket at 1410 per foot.
1 sh Yellow Jacket at 1425 per foot.
3 shs Yellow Jacket at 1425 per foot, s 3.
1 sh Yellow Jacket at 1430 per foot.
2 shs Yellow Jacket at 1440 per foot.
1 sh Yellow Jacket at 1430 per foot, s 30.
1 sh Yellow Jacket at 1460 per foot.
1 sh Yellow Jacket at 1470 per foot.
1 sh Yellow Jacket at 1450 per foot, s 30.
3 shs Yellow Jacket at 1475 per foot.
1 sh Yellow Jacket at 1480 per foot.
1 sh Yellow Jacket at 1490 per foot, s 3.
1 sh Yellow Jacket at 1495 per foot.
1 sh Yellow Jacket at 1495 per foot, s 3.
5 shs Yellow Jacket at 1500 per foot.
16 shs Central at 200 per foot.
16 shs Crown Point at 1250 per foot.
16 shs Crown Point at 1275 per foot.
12 shs Crown Point at 1280 per foot.
1 sh Crown Point at 1280 per foot, s 3.
28 shs Crown Point at 1285 per foot.
4 shs Crown Point at1282½ per foot.
8 shs Crown Point at 1290 per foot.
40 shs Crown Point at 1290 per foot, s 3.
4 shs Crown Point at 1295 per foot, s 3.
4 shs Crown Point at 1285 per share, s 3
16 shs Crown Point at 1290 per foot, b 5.
2 shs Savage at 1325 per foot, s 10.
2 shs Savage at 1320 per foot, s 10.
3 shs Savage at 1150 per foot, s 10.
10 shs Potosi at 446½ per foot.
5 shs Uncle San at 215 per foot, s 3.
11 shs Uncle Sam at 215 per foot.
17 shs Imperial at 258 per share.
8 shs Imperial at 259 per share
10 shs Imperial at 2-8½ per share.
5 shs Imperial at 257½ per share.
8 shs Imperial at 256 per share.
10 shs Imperial at 255 per share, r w.
2 shs Imperial at 255 per share.
10 shs Imperial at 254 per share.
10 shs Wide West at 8¼ per share.
10 shs Confidence at 130 per share, s 3.
20 shs Confidence at 125 per share, s 3.
8 shs Confidence at 120 per share.
4 shs Confidence at 117½ per share.
5 shs Confidence at 117 per share.
5 shs Confidence at 120 per share, s 3.
5 shs Bullion at 170 per share.
5 shs Bullion at 180 per share.
40 shs Bullion at 185 per share.
20 shs Bullion at 190 per share, b 5.
3 shs Empire M & M Co. at 410 per share.
5 shs Golden Rule at 12½ per share.
10 shs Sierra Nevada at 18 per share.
$ 6,365 Legal Tender Notes at 74 per cent.

AFTERNOON SESSION.

4 shs Alpha at 1510 per foot.
4 shs Alpha, G. H., at 1540 per foot.
12 shs Yellow Jacket at 1500 per foot.
1 sh Yellow Jacket at 1500 per foot, r w.
1 sh Yellow Jacket at 1490 per foot.
5 shs Yellow Jacket at 1480 per foot.
1 sh Yellow Jacket at 1475 per foot.
1 sh Yellow Jacket at 1470 per foot.
1 sh Yellow Jacket at 1470 per foot. r w.
6 shs Hale & Norcross at 535 per foot.
2 shs Hale & Norcross at 530 per foot.
4 shs Hale & Norcross at 540 per foot, b 30.
6 shs Hale & Norcross at 535 per foot.
4 shs Hale & Norcross at 530 per foot.
12 shs Ophir at 375 per foot.
60 shs Ophir at 370 per foot.
24 shs Ophir at 367½ per foot.
36 shs Ophir at 365 per foot.
60 shs Ophir at 355 per foot, s 30.
1 sh Uncle Sam at 217 per foot.
6 shs Uncle Sam at 216 per foot.
160 shs Daney at 62 per foot, at 30 days.
40 shs Daney at 65 per foot.
48 shs Daney at 60 per foot.
1 sh Savage at 1320 per foot.
1 sh Savage at 1325 per foot.
4 shs Crown Point at 1280 per foot.
4 shs Crown Point at 1275 per foot.
8 shs Crown Point at 1270 per foot.
8 shs Crown Point at 1270 per foot, s 3.
20 shs Potosi at 455 per foot, b 3.
10 shs Potosi at 470 per foot, b 30.
2 shs Potosi at 464 per foot.
2 shs Potosi at 463 per foot.
4 shs Gould & Curry at 1450 per foot.
5 shs Belcher at 840 per foot, s 3.
30 shs Buckeye at 7 per share.
22 shs Imperial at 264 per share.
5 shs Imperial at 264 per share, s 3.
7 shs Imperial at 252½ per share.
30 shs Bullion at 185 per share.
20 shs Bullion at 185 per share, b 10.
5 shs Bullion at 183 per share.
10 shs Sierra Nevada at 17 per share.
40 shs Sierra Nevada at 17½ per share.
20 shs Caledonia Tunnel at 5½ per share.
10 shs Confidence at 121 per share, s 3.
2 shs Confidence at 121 per share.
10 shs Confidence at 120 per share, s 3.
20 shs Confidence at 120 per share.
6 shs Chas Cany at 7 per share.
3 shs Empire M. & M. Co. at 400 per share.
$20,080 Legal Tender Notes at 73½, s 30.
$ 5,000 Legal Tender Notes at 73¼ per cent.
Amount of sales.....$292,631 00

Wednesday, August 23.

12 shs Chollar at 500 per foot.
86 shs Chollar at 497½ per foot.
20 shs Daney at 57½ per foot.
400 shs Daney at 60 per foot.
40 shs Daney at 60 per foot, s 30.
120 shs Daney at 61 per foot.
80 shs Daney at 63 per foot.
4 shs Hale & Norcross at 680 per foot.
4 shs Hale & Norcross at 560 per foot.
2 shs Hale & Norcross at 570 per foot.
1 sh Yellow Jacket at 1480 per foot.
1 sh Yellow Jacket at 1475 per foot, s 20.
1 sh Yellow Jacket at 1475 per foot, s 15.
17 shs Yellow Jacket at 1475 per foot.
5 shs Uncle Sam at 220 per foot.
3 shs Uncle Sam at 222½ per foot.
2 shs Uncle Sam at 222 per foot.
36 shs Ophir at 365 per foot.
2 shs Potosi at 460 per foot.
2 shs Potosi at 457½ per foot.
2 shs Crown Point at 1260 per foot.
4 shs Alpha, G. H., at 1550 per foot.
25 shs Imperial at 252½ per share.
5 shs Imperial at 250 per share, b 3.
18 shs Imperial at 250 per share.
15 shs Imperial at 253 per share.
20 shs Imperial at 252 per share.
5 shs Imperial at 252 per share. b 3.
15 shs Imperial at 251 per share.
5 shs Sierra Nevada at 18 per share.
10 shs Sierra Nevada at 18½ per share.
10 shs Sierra Nevada at 19 per share.
25 shs Sierra Nevada at 20 per share.
10 shs Sierra Nevada at 20½ per share.
50 shs Sierra Nevada at 21 per share.
10 shs Sierra Nevada at 22 per share, b 3.
10 shs Sierra Nevada at 21½ per share.
40 shs Sierra Nevada at 22 per share.
40 shs Buckeye at 7 per share.
6 shs Empire Mill & M. Co. at 400 per share
20 shs Wide West at 7¼ per share.
5 shs Confidence at 125 per share.
3 shs Bullion at 180 per share, s 3.

AFTERNOON SESSION.

28 shs Daney at 65 per foot.
40 shs Daney at 62½ per foot.
40 shs Daney at 70 per foot.
100 shs Daney at 69 per foot.
40 shs Daney at 68 per foot.
5 shs Yellow Jacket at 1475 per foot, b 30.
1 sh Yellow Jacket at 1460 per foot.
1 sh Yellow Jacket at 1450 per foot.
1 sh Yellow Jacket at 1455 per foot, b 30.
7 shs Yellow Jacket at 1440 per foot.
2 shs Yellow Jacket at 1435 per foot, s 3.
12 shs Ophir at 360 per foot.
24 shs Ophir at 365 per foot.
4 shs CrownPoint at 1240 per foot.
8 shs Chollar at 500 per foot
2 shs Hale & Norcross at 570 per foot, r w.
12 shs Hale & Norcross at 560 per foot, r w.
1 sh Savage at 1325 per foot.
5 shs Uncle Sam at 220 per foot, s 30.
40 shs Sierra Nevada at 24 per share.
229 shs Sierra Nevada at 23 per share.
10 shs Imperial at 250 per share, s 3.
25 shs Imperial at 248 per share.
5 shs Imperial at 250 per share, b S.
15 shs Imperial at 247 per share.
30 shs Imperial at 245 per share.
120 shs Imperial at 242½ per share.
10 shs Imperial at 242 per share, s 3.
18 shs Imperial at 243 per share.
25 shs Imperial at 244 per share.
1 sh Confidence at 126 per share
7 shs Confidence at 125 per share.
Amount of sales.....$203,000 00

Thursday, August 24.

1 sh Savage at 1320 per foot.
1 sh Savage at 1320 per foot, r w.
1 sh Uncle Sam at 225 per foot.
2 shs Uncle Sam at 225 per foot.
2 shs Potosi at 455 per foot.
20 shs Potosi at 456 per foot.
12 shs Potosi at 453 per foot.
2 shs Hale & Norcross at 550 per foot.
2 shs Hale & Norcross at 540 per foot.
2 shs Hale & Norcross at 540 per foot, r w.
20 shs Daney at 70 per foot.
40 shs Daney at 66 per foot.
20 shs Daney at 65 per foot, b S.
80 shs Daney at 65 per foot.
1 sh Yellow Jacket at 1425 per foot.
5 shs Yellow Jacket at 1410 per foot.
9 shs Yellow Jacket at 1400 per foot.
11 shs Yellow Jacket at 1420 per foot.
3 shs Yellow Jacket at 1425 per foot.
1 sh Yellow Jacket at 1425 per foot, r w.
7 shs Yellow Jacket at 1450 per foot, b 30.
1 sh Yellow Jacket at 1420 per foot, r w.
8 shs Alpha, G H, at 1500 per foot.
8 shs Alpha, G. H., at 1500 per foot, r w,
4 shs Crown Point at 1200 per foot.
5 shs Imperial at 235 per share, b 3.
5 shs Imperial at 233 per share, s 3.
2 sh Imperial at 234 per share.
44 shs Imperial at 233 per share.
5 shs Imperial at 233½ per share, r w.
25 shs Sierra Nevada at 21 per share.
50 shs Caledonia Tunnel at 5½ per share.
10 shs Burning Moscow at 34 per share.
30 shs Lady Bryan at 5 per share, s 3.
20 shs Lady Bryan at 5 per share.
2 shs Confidence at 129 per share.
4 shs Confidence at 127½ per share.
$ 5,000 Legal Tender Notes at 74 per cent.

AFTERNOON SESSION.

1 sh Yellow Jacket at 1425 per foot.
2 shs Yellow Jacket at 1420 per foot.
8 sh Yellow Jacket at 1415 per foot.
2 shs Yellow Jacket at 1410 per foot.
22 shs Yellow Jacket at 1405 per foot.
8 shs Yellow Jacket at 1420 per foot, b 30.
2 shs Yellow Jacket at 1400 per foot, s 30.
2 shs Hale & Norcross at 520 per foot.
8 shs Hale & Norcross at 525 per toot, b 10.
4 shs Crown Point at 1190 per foot.
24 shs Crown Point at 1189 per foot.
4 shs Crown Point at 1175 per foot, r w.
40 shs Daney at 65 per share, s 3.
40 shs Dancy at 65 per share.
12 shs Ophir at 355 per foot, s 16.
12 shs Ophir at 355 per foot, s 6.
24 shs Ophir at 350 per foot, s 15.
24 shs Ophir at 356 per foot.
4 shs Potosi at 450 per foot.
20 shs Sierra Nevada at 21 per share.
32 shs Sierra Nevada at 20 per share.
10 shs Sierra Nevada at 19½ per share.
30 shs Sierra Nevada at 21½ per share, h 30.
10 shs Imperial at 225 per share, s 3.
76 shs Imperial at 235 per share.
5 shs Imperial at 234 per share.
10 shs Imperial at 235 per share, b S.
5 shs Uncle Sam at 220 per foot, b 10.
10 shs Uncle Sam at 215 per foot.
1 sh Uncle Sam at 218 per foot.
40 shs N. American, Ex Sam, at 27 per sh.
20 shs Buckeye at 7¼ per share.
$ 5,000 Legal Tender Notes at 74, r w.
Amount of sales.....$213,000 00

Friday, August 25.

60 shs Ophir at 350@355 per foot, s 15.
105 shs Ophir at 357½@350 per foot.
1 sh Empire Mill & Mining Co. at 390.
44 shs Crown Point at 1190@1160 per foot.
25 shs Uncle Sam at 215@240 per share.
3 shs Uncle Sam at 215 per foot, b 30.
10 shs Yellow Jacket at 1400 per foot, s 30.
33 shs Yellow Jacket at 1435@1420 per foot.
3 shs Yellow Jacket at 1450 pr ft, s 30.
120 shs Imperial at 235@242 per share.
12 shs Potosi at 445 per foot.
232 shs Daney at 67½@66 per share.
3 shs Belcher at 850 per foot.
14 shs Hale & Norcross at 540@495 per foot.
140 shs Sierra Nevada at 22 per share.
20 shs N. American, Ex Sam, at 27 per sh.
10 shs Buckeye 7 per share.
10 shs Chas Cany at 6 per share.
10 shs Caledonia Tunnel at 5½ per share.
45 shs Spring Valley W W Co at 51 per cent
45 shs Wide West at 7 per share.

AFTERNOON SESSION.

28 shs Savage at 1300 per foot.
32 shs Bullion at 160@155 per share.
36 shs Yellow Jacket at 1500@1530 per foot.
4 shs Yellow Jacket at 1505 per foot, s 30.
6 shs Belcher at 860@865 per foot.
105 shs Sierra Nevada at 24@23 per share.
150 shs Imperial at 250@248 per share.
12 shs Crown Point at 1180@1200 per foot.
232 shs Daney at 75@80 per foot.
20 shs N. American, Ex Sam, at 27 per sh.
27 shs Uncle Sam at 210 per foot.
20 shs Chas Cany at 7 per share.
45 shs Lady Bryan at 6 per share.
Amount of sales.....$286,128 00

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, August 26th, 1865.

The money market is abundantly supplied with available capital, and we have rarely had occasion to note so great an accumulation of unemployed means seeking investment as at this time. Bank rates rule at 1¼@1½ P cent. per month, but borrowers in good credit, and others with first-class collateral, can readily negotiate loans upon more favorable terms.

Receipts of treasure from the interior and north coast, since Saturday last, have been large, and amounted to $1,500,000; making an aggregate of some $3,800,000 thus far during the current month.

Bullion is rather more abundant this week, and gold bars were taken to account by bankers at 820@830; silver bars are selling at par to ¾ P cent discount.

Legal Tender Notes have been in rather less favor, and small sales were made within a range of 74½@73½c, seller 30, closing at 73¾c. bid, 74c. asked. Our latest telegraphic advices from the East quote gold at 143 on the 15th instant.

The Mining Share market, early in the week, exhibited more firmness than for some time past, and a number of leading shares were in decided request at enhanced rates. During the past day or two, prices, for the most part, have shown a decline, but some stocks at the close are again higher and appear to be well controlled.

Low priced shares have been active, and large sales were made at variable rates, closing firmly. City stocks are still in favor, and are not offered except at full rates.

San Francisco 7 per cent. bonds of 1862 are inquired for at 76. California Steam Navigation rose from $780 to $800 P share, closing at $820 bid. State Telegraph is in more favor at $30 bid. Spring Valley Water was sold at $51, and closing at 51¼ asked. The receipts of this company exceed $40,000 in July, and this month will amount to some $37,000. North Beach and Mission Railroad is in demand at $39½ per share, and Pacific Insurance Company has risen to $160 bid.

Gould & Curry met with trifling sales at $1,475@1,450, and is now offered at $1,350. We learn of nothing new from this claim.

Alpha has been well maintained, and 17 feet were dealt in, advancing from $1,475 to $1,550, then selling at $1,860—assessment of $360 delinquent—and closing at $1,850 asked. The pay streak discovered last week, in the lower level, is said to show some improvement. The company have recently purchased the Pacific mill, together with all its appurtenances, for the sum of $108,000, of which amount $20,000 was payable in cash, and the balance is to mature in regular monthly installments, extending over a period of ten months, with interest at the rate of 1¼ P cent. per month. This mill is said to be well constructed and efficient in every respect, with a crushing capacity of 50 tons per day.

Yellow Jacket was very active at fluctuating rates, opening at $1,340, advancing to $1,500, receding to $1,400, rallying to $1,420, and selling yesterday at $1,470@1,530, some 289 feet in all changing hands. Advices from this mine are meager this week, but we are informed that no material change has taken place recently.

Savage is in rather less favor, declining from $1,360 to $1,315 advancing to $1,325, and selling at the close at $1,300. A strike for higher wages, on the part of some of the workmen employed in this mine, interfered with active operations for a brief period this week, but we learn that this difficulty has since been arranged, and that the full force of the company are now at work again.

Crown Point rose from $1,200 to $1,290, fell to $1,175, and sold at the close at $1,160@1,200, within which range 81 feet were dealt in. There is no change in the appearance of the 230-feet level, and the drift is vigorously underway east from the shaft in the 300-feet station. This company have purchased the Rhode Island mill for the sum of $60,000, and propose to increase its reduction capacity to 50 tons per day.

Belcher has been very inactive and dull at $860@840, closing at $835 bid. About 90 tons of fair ore are now daily taken from the upper portion of the claim. The shaft is now completed to a depth of 535 feet, and operations are in progress for a thorough development of this mine in the two lower levels, 420 and 520 feet from the surface.

Hale and Norcross has revived a little, and some 50 feet were sold, advancing from $500 to $580, receding to $520, and selling yesterday at $495@510. In drifting west from the south drift at a vertical depth of 700 feet, a body of quartz, interspersed with some good ore, has been met with this week.

Ophir receded from $390 to $355, seller 30, rallied to $365 cash, fell to $350, and closed at about $350 bid. Central was sold at $200 per foot.

Empire Mill and Mining Company was dealt in to the extent of 28 shares at $420@390 per share, closing at $395 asked. It is said that a large portion of the stock belonging to a certain estate has been on the market this week. The product of this mine exceeded 2,650 tons in July, and its yield during the current month has averaged about 80 tons per day, all of which latter is being reduced at the company's two mills.

Chollar fell from $500 to $497½, rallied to $500, and closed at $485 bid. In all 129 feet were sold. The south mine is said to look well.

Potosi is in rather less favor, and 104 feet changed hands, steadily declining from $471 to $456, and selling yesterday at $445. The joint product of these two mines now exceeds 130 tons of ore per day, and the receipts of bullion will show some improvement this month.

Uncle Sam has attracted less attention, and small sales were made, advancing from $210 to $225, and selling at the close at $215@210.

Imperial has been very largely dealt in, and more than 1,350 shares were sold, declining from $260 to $250, rallying to $260, receding to $230, rallying to $236, and changing hands yesterday at $235@250. Nevada advices speak highly of this claim, and the yield of bullion for the current month, from the company's two mills, will, it is thought, exceed $130,000, the ore reduced having been unusually productive. Since the 10th inst., the actual shipments from the mine have been $90,200. The ordinary expenses of the company for August will probably amount to less than $40,000, and a surplus of some $15,000 remained at their credit after the payment of the last dividend. It is rumored that there will be no increase of the dividend for this month, but that nearly all of the surplus which may remain on hand, say $65,000 after paying $10 per share, will be used in the purchase of supplies for the winter! A portion of the net earnings this month will doubtless be required for quicksilver, acid, etc., but nothing has been determined upon with regard to the dividend.

Bullion rose from $170 to $190, fell to $180, and is now offered at $155. Confidence fell from $133 to $117, rallied to $127, and sold yesterday at $125. Daney rose from $62½ to $80, fell to $57½, rallied to $70, receded to $65, and closed at $75@70.

Exchequer has been sold at $44@45, and is now offered at $40. Burning Moscow is inactive at about $34. Sierra Nevada advanced from $18 to $24, fell to $21½, and sold yesterday at $21@24.

The total sales of Stocks and Legal Tender notes since Saturday last, amounted to $1,348,150.

New Mining Advertisements.

Continued Mining Advertisements will be found on other pages.

Globe Gold and Silver Mining Company. Moultor District, Alpine county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 23d day of August, 1865, an assessment of two dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, or to ISAAC S. POWERS, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 23d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Thursday, the 12th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

V. B. POST, Secretary.

Office, 1421 Taylor street, San Francisco, Cal. au26-5w

Honcut Miner Gold and Silver Mining Company, Reese River Mining District, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 22d day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Allen, H H	bal 280	130	$50 00
Adams, Cyrus	162	5	2 50
Ames, B F	167	1	50
Bradley, H W	41	11	5 50
Bradley, H W	207	5	2 50
Bradley, H W	218	5	2 50
Bertolly, Chas	147	10	5 00
Cleary, F D	230	2	1 00
Cleary, F D	234	2	1 00
Drinkhouse, J A	241	104	52 00
Dolrick, E R	273	2	1 00
Francis, D B	34	7	3 50
Francis, D B	240	10	5 00
Frank, J	165	22½	11 25
Gayle, A B	149	4	2 00
Gayle, A B	167	2	1 00
Gorman, Jno	237	1	50
Heath, R W	20	8	4 00
Hoffman, S	252	10	5 00
Hewston, John, Jr	240	10	5 00
Leppien, Fred	88	3	1 50
Leppien, Fred	204	2	1 00
Lyle, T B	133	1	50
Ladd, W. Frank	213	3	1 50
Litchfield, W D	274	3	1 50
Melbaniels, D	35	3	1 50
Nicol, W	211	1	50
Reed, J L	224	18	9 00
Reed, J L	232	2	1 00
Stoddard, S B	120	2	1 00
Shipley, A J	163	3	1 50
Shipley, A J	215	10	5 00
Shipley, A J	216	5	2 50
Shipley, A J	217	5	2 50
Turner, Anna K	47	5	2 50
Trask, Jno B	124	4	2 00
Tureman, C W	142	5	2 50
Upton, M	208	10	5 00
Williams, J J	31	3	1 50
Wightman, Jno	43	6	3 00
Whitlatch, J W	80	1	50
Whitlatch, J W	91	7	3 50
Woodlead, H	173	5	2 50
Work, George	194	10	5 00
Work, Jno W	178	7	3 50
Work, Jno W	264	3	1 50

And in accordance with law, and an order of the Board of Trustees, made on the 22d day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold at public auction, by Jones & Bendixen, auctioneers, at the office of the Company, on the 12th day of September, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street (up stairs). au28-3w

Lord Byron Gold and Silver Mining Company—Location of Works: Devil's Gate District, Lyon county, Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 24th day of July, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
C Anderson	26	25	$12 50
R W Berry	2	13	6 50
R W Berry	64	30	15 00
R W Berry	122	5	2 50
T F Bagge	35	25	12 50
W D Dyer	131	43	21 50
M G Elmore	145	10	5 00
E D Graif	141	5	2 50
A E Head	121 122 123 124 125 126 25 ea	150	75 00
A E Head	127	14	7 00
W M Huntoon	135 136 137 138 130 10 ea	50	25 00
W M Huntoon	140	13	8 50
John Kerins	130	10	5 00
S F Lecouard	103	25	12 50
G J Lansing	70	10	5 00
Franklin Morgan	76	10	5 00
Franklin Morgan	158	164	82 00
C S McNamara	104	25	12 50
Barmus Miekkolson	44	5	2 50
C W McNutt	63	20	10 00
R McMurray	80	100	50 00
R McMurray	143	212	106 00
R H Nason	23	10	5 00
R H Nason	25	5	2 50
Mary A Nichols	43	50	25 00
P C Olsen	61	10	5 00
A S Rogers	3	12	8 00
A S Rogers	22	25	12 50
E Smith	133	15	7 50
Maurice Sheban	38	50	25 00

And in accordance with law, and an order of the Board of Trustees, made on the 24th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the salesroom of Edwards, Olney & Co., at No. 628 Montgomery street, San, Francisco, on Monday, the 11th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

H. B. CONCDON, Secretary.

Office, 620 Washington street (room 5), San Francisco California. au26 3w

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Mosquito Quartz Mining Company, Calaveras County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 22d day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
C Bernard	55	2	$10 00
D Davidson	117	5	25 00
F Godchaux	107	12	60 00
E L Gould	170	10	50 00
F H Hill	71	1	5 00
F H Hill	150	1	5 00
B Levy	75	2	10 00
G Mahe	164	1	5 00
L Percy	1 0	5	25 00
A Pacillier	1311	1	5 00
F Rollett	122	2	10 00
H Schmidt	78	5	25 00
H Schmitt	191½	5	25 00
A Tepiere	219	50	250 00
F M Wellhoff	109	2	10 00

And in accordance with law and an order of the Board of Trustees, made on the 22d day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction at the salesroom of Messrs. Edwards, Olney & Co., No. 626 Montgomery street, on the 15th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

G. PARDOW, Secretary.

Office, 15 Montgomery Block, San Francisco. au26-3w

Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22d day of August, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, in San Francisco, or to J. M. PIKE, Superintendent, at Copperopolis.

Any stock upon which said assessment shall remain unpaid on Saturday, the 23d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Thursday, the 12th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco, Cal. au26

Wisconsin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 12th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names	No. Certificates.	No. Shares.	Amount.
Amundson, Thomas	43 44 45-10 ea	30	$26 80
Amundson, Thomas	46 47-5 ea	10	10 00
Berry, Geo E	49	78½	65 00
Bross, Jacob	39	5	5 00
Brown, Thomas	60	10	10 00
Brown, Thomas	61	7	7 00
Christianson, O & R	164	6	6 00
Christianson, O & B	165	5	5 00
Christianson, O & B	not issued	41	41 00
Eckel, A W	73	8	8 00
Edson, Albert	154 155-10 ea	20	17 50
Elde, Neils	159	5	5 00
Gullickson, L	116	3	2 90
Halverson, Ole	5	15	15 00
Halverson, Ole	84 104 105 106 107 108-10 ea	60	60 00
Halverson, Ole	not issued	150	150 00
Helgerson, John	17	15	15 00
Helgerson, John	18	25	25 00
Helgerson, John	19 22-10 ea	20	20 00
Helgerson, John	21	19	19 50
Helgerson, John	not issued	55	55 00
Hawkins, H J	110 111-10 ea	20	20 00
Hawkins, H J	113 114-25 ea	50	50 00
Hawkins, H J	109	5	5 00
Hargrave, E J	36	6	5 00
Hessler, Chas	115	10	10 00
Harris & Co	137	5	5 00
Holderige, W	144	25	25 00
Johnson, John	25 26 27 28 29-25 ea	100	100 00
Johnson, John	29 30 31 32 33-10 ea	50	50 00
Johnson, Andrew	101	5	5 00
Johnson, Andrew	96 97 98-10 ea	30	30 00
Johnson, Andrew	99 100-20 ea	40	40 00
Johnson, J A	80	21	21 00
Johnson, J A	81	10	2 00
Jones, J M	153	12½	12 50
Kirk, Chas	6 9 10 11-20 ea	80	80 00
Kirk, Chas	8	25	13 40
Kirk, Chas	12 13 14-10 ea	30	30 00
Kirk, Chas	not issued	95	95 00
Kirby, Z C	150	12½	10 00
Klentzer, Herman	151	5	5 00
Knutson, Iver	158	5	5 00
Levy, G N	94	5	2 50
Lee, O N	78	10	4 00
Lee, O N	79	13	13 00
Lee, O N	not issued	52	52 00
Lindau, Arnold	56	10	8 20
Lace, J B	139	10	10 00
Mello, C	57	29	8 20
Marks, M	139	10	10 00
Nelson, Neils	82	10	10 00
Nelson, Christopher	88	10	3 44
Nelson, Christopher	89 90 91 92 93 94 95-25 ea	175	175 00
Nelson, Christopher	128	6	5 00
Ogden, Thomas	62 63 64-20 ea	40	60 00
Ogden, Thomas	65 67 68 69-10 ea	60	40 00
Ogden, Thomas	138	5	5 00
Ogden, Thomas	not issued	60	60 00
Olson, Halver	120 121 122 123 124 125 126-20 ea	140	140 00
Olson, Thomas	71	10	2 00
Olson, Thomas	72	13	13 00
Olson, Peter	76	21	21 00
Olson, Peter	77	10	10 00
Owens, P A	135	20	20 00
Peterson, E H	38 40 41 42-5 ea	20	17 50
Rhodes, Alonzo	131	8	5 40
Rhodes, Alonzo	133	9	9 00
Ross, Lunisa	134	10	10 00
Sutherland, J	53	10	9 20
Safford, H F	102 103.5 ea	10	9 00
Sorenson, O W	136	10	9 00
Severson, T	160	11	11 00
Severson, T	161 162-10 ea	20	20 00
Senter, Riley	166	8	8 00
Tanner, O	2	15	13 80
Thompson, P	130	10	8 20
Vanhorn, S	169	5	5 00
Werner, F	152	12½	12 50

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Messrs. Edwards, Olney & Co., 626 Montgomery street, San Francisco, on the 2d day of September, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. WARREN CLARK, Secretary.

Office, 410 Montgomery street, San Francisco. au26-3w

Let it be Known.—When any of our readers respond (by letters of inquiry or by the purchase of articles) to advertisements found in our columns, they will confer a favor, not only upon us, but upon the advertiser, by mentioning the fact of having seen the notice in our paper.

BY AUTHORITY OF THE STATE OF CALIFORNIA

Having fully complied with the law by a deposit of $525,000 bonds of the State of California and the United State

BIGELOW & BROTHER,

GENERAL INSURANCE AGENTS,

FIRE, MARINE AND LIFE INSURANCE,

Capital Represented.....$15,000,000.

California Deposit..... .... $525,000

Office Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.

LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets	$1,500,000
HOME INSURANCE COMPANY, of New York, Assets	3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets	2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets	1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets	600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets	600,000
CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.	

Policies issued on Freights, Cargoes, and Treasure, from and to All Parts of the World. Voyage War Risks taken on Hulls.

Fire Insurance Policies issued on all kinds of Insurable Property in the Country or City. Losses Payable in Gold Coin of the United States.

We represent the Oldest and Best Companies in the United States, and offer as favorable terms as any agency on this Coast.

Losses paid immediately on adjustment.

BIGELOW & BROTHER,

17-6m **General Agents.**

Porter Gold and Silver Mining Company, Virginia District, Nevada,

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of July, 1865, an assessment of five dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at 534 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 19th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of September, 1865, to pay the delinquent assessment thereon, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. W. WESTON, Secretary.

Office, 534 Clay street, San Francisco. jy22

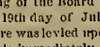
POSTPONEMENT.—The advertisement of stock delinquent on the above assessment is hereby postponed until Saturday, August 26th, 1865, and the sale thereof until Saturday, September 9th, 1865. By order of the Board of Trustees. (au19) C. W. WESTON, Secretary.

POSTPONEMENT.—The advertisement of stock delinquent on the above assessment is hereby postponed until Saturday, September 2d, 1865, and the sale thereof until Saturday, September 16th, 1865.

au26 C. W. WESTON, Secretary.

Pacific Mail Steamship Co.

The following Steamships will be dispatched on the following named days.



September 2d—GOLDEN CITY.....Capt. W. F. Lapidge.

Sept. 18—COLORADO.....Captain J. T. Watkins.

From Folsom street Wharf

At 11 o'clock A. M., punctually to the hour,

For Panama.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company

A Baggage Master will be sent through each trip.

Cabin passengers will be berthed for Atlantic steamer.

OLIVER ELDRIDGE, Agent.

Corner Sacramento and Leidesdorff sts.

BUY

The Monthly Series

—OF THE—

MINING AND SCIENTIFIC PRESS

For Yourself and Friends.

Issued at the close of EACH Month.

PRICE.....50 CENTS.

G. W. Dam, Real Estate Agent,

No. 432 Montgomery street.

Business Property, Homestead Property and Real Estate for sale in all parts of the city 1df

STILL PROGRESSING!

THE OFFICE OF THE

Mining and Scientific Press

was removed, April 8, to the old printing stand lately known as Waters Bros. & Co.'s, southwest corner of Clay and Sansome streets (one block south of our former location), where we have consolidated with a

JOB PRINTING OFFICE,

One of the oldest and best appointed establishments in the city for

CHEAP, RAPID AND FINE PRINTING.

We are well prepared to do good work, and as cheap as any prompt and reliable firm in San Francisco, and will guarantee entire satisfaction to every reasonable individual who may be kind enough to bestow upon us his patronage.

LAW BRIEFS,
MINING CERTIFICATES,
PETROLEUM CERTIFICATES,
BLANK BOOKS,
MINING BLANKS,
BOOKS,
PAMPHLETS,
CARDS,
CIRCULARS,
MINING REPORTS.

Orders from the Interior will receive prompt attention. We shall take care to secure correctness in all work executed for parties out of town. Small packages will be forwarded by mail at our expense.

City customers, or persons visiting San Francisco, are invited to call and examine our specimens, when they will be politely informed of our prices by the Proprietors.

E. D. WATERS, JR., } Proprietors. { W. B. EWER,
C. W. M. SMITH, } { A. J. DEWEY,

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The Press contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

[From the Daily Fair Press, Saturday, August 19.]

MATHEMATICAL DRESS MODELS.

If there was any one thing more than another that a mother delights in, it is to see her children well dressed. Our American mothers, as a general thing, are the architects, if not the makers of their own apparel, and that of their little ones. For this reason, any invention which facilitates their labor is received with emotions of genuine delight. The mathematical dress models of Mrs. Curtis are the latest, and incomparably the best patterns for dress cutting, of any yet known to modern science. They are so constructed and designed that they can be used for cutting dresses of all sizes, shapes, fashions, and from every conceivable kind of fabric, whether wool, cotton, linen, satin, silk, or what not. They have, on account of their great superiority, supplanted all other models in the public estimation; and their unrivalled excellence is certified to by many ladies well known to the citizens of San Francisco, among whom may be named Mrs. Bishop Kip, Mrs. J. P. Hoge, Mrs. Treat, Mrs. Ireland, Mrs. Cummusky, Mrs. Ellsworth, Mrs. M. P. Beuton, Sister Francis McEnuis, of the Roman Catholic Orphan Asylum, Mrs. Connor, Mrs. Dr. Newell, Mrs. Sather, Mrs. Ellsworth, and hundreds of others.

The process of cutting is accomplished through a series of cards, laid off mathematically. After the measure has been taken, the tape-line is put upon these figures, according to the number of inches of the waist, arm, skirt, or other part of the body, and the pattern marked in such accurate manner as to render it impossible to be otherwise than a perfect fit. Any lady, after the first lesson, can readily comprehend the whole system and put it into immediate practice.

We regard the models the simplest and yet most useful articles ever introduced into a family. A child of eight years of age can take the cards and do all the fitting and cutting of her dolls. And, by the way, a lot of dolls are on exhibition in the Pavilion, the dresses of which were cut out from these models. No lady should go away from the Fair without making herself acquainted with all the facts connected with the models; for, if she uses the needle, they are so cheap that she will be certain to want a set of them.

Heirlooms.—"Annt Susan" (Mrs. Lambert), manager-in-chief of the New England Kitchen, has placed on exhibition in one of the nooks of her cupboard, a gold watch, hull's eye pattern, double cased, which was made in 1746. The outer case is of tortoise shell, mosaic style, elaborately ornamented. This relic—so the descriptive card which accompanies it states—was worn by Miss Ann Knight on the occasion of her marriage to Ed. Gratwick, at Gravesend, county of Kent, England, in 1810. The same lady also exhibits an account book of General Andrew Jackson, inscribed on the fly-leaf, "Nashville, 181[illegible]—For the Orleans Brook Expedition." A memorandum on one of its pages will show with what particularity the old hero kept his accounts, to wit: "Mr. Harris took my mare to keep 2d August, 1814. Adam took her to work in the wagon 12th Oct., 1814. Took her back to Harris to keep Oct. 21st, 1814. Took her away Dec. 8th, 1814."

A Pretty Sign.—We rather think our editorial and publication office in the Pavilion boasts one of the prettiest signs at the Fair. When you call to get a paper, look up at it. The scroll symbolizes the parchment upon which it has heretofore been customary to write letters patent when they were issued to inventors. The hammer signifies an implement indispensable to the mechanic arts; and the pen, a weapon which, "beneath the rule of men entirely great, is mightier than the sword." Mr. Wm. Winter, 805 Washington street, is the artist.

Mr. Speaker Colfax visited the pavilion this morning, and took a quiet walk round. It was well for him that the "toadies" were ignorant of his whereabouts—although it might have redounded to the benefit of the Fair treasury—or there would have been a mighty rush and fulsome obsequious attention proferred him on the occasion.

Mutual Life Insurance Co.—So much has been said by way of argument—and incontrovertible argument, at that—in favor of life insurance, that no one has the temerity now to dispute the benefits arising from it. To leave his orphan children and the wife of his bosom provided for, after death, is, or ought to be, the desire of every right thinking man. This can be accomplished by taking out a policy in the Mutual Company, 609 Clay street, which is entirely responsible. Harry Homans, the polite and industrious agent, will take pleasure in explaining the details of the process, and the advantages arising from this kind of Insurance. We commend our readers to him for instruction.

Ban Spelling, or a Poor Joke.—A dish on one of the fruit tables in the Pavilion contains a lot of large pears, labeled "Vicar of Winkfield." The man who wrote the label either attempted to perpetrate a bad pun, or lives in ignorance of the works of Oliver Goldsmith.

Too Modest.—The author of those expressive statuettes in the art gallery, illustrative of scenes in the late rebellion, and modeled in clay, is by far too modest. The crowds who stop around his figures to admire them, invariably examine for the name of the sculptor without being able to find it. Won't he confer a favor on the public, and by so doing in a large degree enhance his own fame, and inform them by placard who he is, and where his studio may be found?

Unjust to Themselves.—Exhibitors of valuable inventions—particularly heavy machinery—who fail to have printed cards or descriptive circulars attached to their articles, do themselves a great injustice. The want of information of this kind, afforded to visitors and reporters for the press, deprives them of knowing, and placing before the public, the result of their investigations. As we have heretofore said, if articles are worthy of being exhibited, a few dollars expended in describing their merits, are sure to prove beneficial; and those who are negligent or too parsimonious to comply with this suggestion, will leave the Pavilion, at the conclusion of the Fair, without having derived any profit from its continuance.

J. & C. Schreiber have on exhibition a spiral-spring bed, for which a patent was issued on the 25th of October, 1864. The peculiarity of the patent consists in the mode of tying the springs, the springs being tied near the center downwards, making the bed firm and substantial, as well as elastic; from the center up to the top of the spring, separately, runs a cord which forms a brace to each spring, giving a softness which no other mode of adjusting can give. It is admitted by manufacturers and dealers, and others who have this new patent in use, to be superior to any spring-bed heretofore offered to the public. This exhibition is well worthy of examination by all those in want of a comfortable bed or other similar articles of furniture.

The Time to get Papers.—The circulation of the Daily Fair Press is gratuitous, and made entirely during the evening, at the Pavilion, where copies can be procured, but not thereafter, unless specially ordered beforehand. This explanation is made from the fact that frequent calls are made for the Press at the counter next morning.

Getting to Work.—Gradually the machinery in the northeast wing of the Pavilion, is getting into operation, and as each new piece yields to the propelling impulse of steam, and adds its hum and clunk and clatter to the general uproar, the scene is enlivened. In the intervals between the performances of the band, the music thus afforded, if it is not quite so accordant to the man of business, is hardly less rapturous.

Good Suggestion.—A city paper suggests, that the chairs round the fountain of the Pavilion were not put there for the especial accommodation of half-grown boys, who nightly occupy them, to stare the girls out of countenance. We concur in that opinion, and think they ought to be *moved*.

A Good Return.—The receipts of the New England Kitchen up to last (Friday) evening, were $2,304.60.

[From the Daily Fair Press, Monday, Aug. 22.]

A "What is It?"—Where's Barnum? His genius is wanted to classify a pen drawing in one of the art galleries, numbered 33. It is a beast, or fish, or fowl, or hybrid, or reptile, or insect, or something else belonging to the *animated* kingdom. But what? That "am" the question. It wears harness, and is "cavorting" in the shafts of a chariot, with Jupiter, Apollo, Castor, Pollax, Mars, or some other mythological character, holding the "ribbons" He is a warrior, *sure;* for, like Ajax, he holds a pitchfork in rest, and is defying the lightning! The name of the *beast*, however, is what we want to know. It is no weazel; but rather "backed like a whale." Will the author be good enough to tack under it a descriptive card, affording the necessary information?

Pacific Iron Works.—There was a time when California depended entirely upon the Atlantic cities for her machinery, and more particularly for her steam engines. But such is no longer the case. Goddard & Co., of the Pacific Iron Works, are now capable of furnishing every article demanded in this branch of industry. They manufacture quartz mills, amalgamating, pumping and hoisting machinery; flour, sugar, and saw-mills, water wheels, etc., and pledge themselves to erect them in perfect working order. The specimens of their work which we have seen are splendidly constructed.

Blue Ledge Rock.—A sample of rock from this ledge may be seen in our mineral collection at the Pavilion, which, although it shows but little gold to the naked eyes, is nevertheless said to be very rich. The company owning this ledge is incorporated under the name of the "Blue Ledge Quartz Mining Company," and is quite distinct from the Blue Ledge G. & S. M. Co., of this city. The richness of the rock warrants the expense of hauling it quite a distance for crushing. This rock is of a peculiar blue cast, hence the name of the ledge.

"The Florence."—The display made by Mr. Samuel Hill, agent of the Florence sewing machine, is highly creditable. This year the interest in all kinds of needlework is greatly hightened among the ladies. The "Florence" machine has its admirers, who of course, think it superior to all other sewing machines. It is certainly a beautiful and useful affair; but the ladies must decide for themselves when it comes to drawing comparisons between it and the other sewing machines on exhibition. With us comparisons would be *odorous*.

Roofing.—The gentleman in the picture, who, at the first glance, seems to be an urchin having a "good thing on ice," is a roof artisan, from the establishment of John Kehoe, 228 Bush street. He is closing up the seams of the tin sheets by machinery—a mode which is said to surpass all other plans of rendering roofs water tight. The proprietor, if called upon, will make the proper explanation.

Atwood's Windmills.—Among all the modern improvements since the days of the redoubtable Sancho Panza, none have been of more practical benefit to agriculturalists and horticulturalists, residing in places remote from running streams, than the windmill. To the people of the middle centuries, in its crude shape, it was an indispensable article; and to the moderns, in its elegant and simplified form of structure, it is equally an object of interest and utility. While it performs all the offices of a steam engine, it consumes none of the fuel necessary to that kind of motive power; but, catching the breeze from any and every point of the compass, uses it to dispense the aqueous blessings over the thirsty soil. A couple of fine specimens of the windmill manufactured by Atwood & Bodwell, 222 Mission street, may be seen in full play on the northeast corner of the Pavilion lot. They speak for themselves to all those who desire to procure such an article.

Gold Pens.—We believe Mr. W. B. J. Kenney's gold pens stand unrivaled in our San Francisco market. He boasts the possession of four first premiums as testimonials to their superiority.

[From the Daily Fair Press, Tuesday, August 22.]

FRAGMENTS OF THE "MONITOR" AND "MERRIMAC."

We have in our collection, at the Pavilion, small particles of the famous Monitor, Ericsson's first turretted ironclad, and her rebel antagonist, the "Merrimac." The first is an iron specimen and the latter pine wood—each singularly emblematic of the result and fate of the vessels and the powers they represented. The samples are from our excellent friend J. A. Heald, machinest in the Washington Navy Yard and leader of the *American Brass Band*.

The scrap from the Monitor is a portion of an iron splinter scaled from the plating by the heavy balls of the Merrimac. It was forwarded to us, by mail, at the time the former was being repaired at the Capital Navy Yard, after its wonderful engagement at Hampton Roads.

The wooden mite of the Merrimac is from a floating fragment picked up by the officers of the steamer Massachusetts, (directly after the blowing up of the defeated confederate craft by the rebels) and brought to the Navy Yard at Washington.

The Self-Adjusting Wringer.—In the economy of the kitchen there is no labor—not even washing—which requires the exercise of more strength, and is so straining upon the muscles, as clothes-wringing. This kind of labor, in most families, falls to the "help," or "maid of all work," whose wrists, in consequence, are red, and often peeled till the blood runs, after a hard day's washing. That is to say, this consequence arises when the hands and wrists are used for wringing instead of a machine, such as Swift's Patent, of which we are speaking, and of which M. E. Traver & Bro. are general agents. They claim for it great advantage over all other wringers, from the fact that it has the patent elliptical steel spring, which renders it self-adjusting and durable.

Rubber Clothing.—The uses which India rubber are made to subserve, under the development of modern science, are truly astounding. For proof of this, let the visitor examine the goods on the counter of the Rubber Clothing Co., in the Pavilion. A show-case adjoins, containing a lot of jewelry manufactured from the same material—a perfection of art which, even in this day of surprises, one would hardly expect to have seen.

How Long?—The question is frequently asked, "how long will the Fair continue?" It has become such a delightful place of resort that people are afraid it will close up too soon. We are not authorized to speak for the Managers, but hazard little in saying that it will run for at least three weeks yet.

Late Additions.—Exhibitors are evidently of the opinion that the Fair is to be an institution of long duration. They are still bringing in their goods, many of them heavy articles, and tell of their neighbors who intend to make their additions to the collection *some time next week!*

Golden State Iron Works.—This establishment is in the full tide of successful operation, 19, 21, 23 and 25, First street. All kinds of elegant machinery are here manufactured, such as quartz mills, steam engines, amalgamators, water-wheels, etc., etc., in a style of durability and with materials which suffer no discount in comparison with the best workmanship executed on the Pacific coast.

Cordage.—If a man wishes to hang, it is desirable that the cord he uses should be strong and without much tension. The same quality is necessary in the rope with which to make fast a steamboat, ship, a horse, or for whatever other purpose it may be demanded. Added to this, the consumer wants durability. Tubbs & Co., 611 and 613 Front street, think their cordage will "fill the bill." They offer it to the public in that confident expectation. Let those who have employment for the article try it.

Bad Orthography.—The gentleman whose title on his business card ranks him among the learned professions, might improve that word "difformity," if he would modernize its spelling a little. Our dictionary has it "deformity."

UNDERTAKING.—"After life's fitful fever" every man would desire that it might be said of him, "he sleeps well." In reference to bodily repose, this desideratum may be obtained by the relatives and friends of deceased parties for the deceased, if they will only call upon Nathaniel Gray, undertaker, 641 Sacramento street, corner of Webb. His caskets and metallic burial cases are superb, and a splendid hearse provided to haul them with their human contents.

A NEW CALIFORNIA PRODUCT.—Among the articles introduced into the Pavilion within a few days past, we notice several boxes of adamantine candles, which may be seen upon the left hand side of the main entrance, and near the door. These are the first adamantine candles of merchantable quality which have been produced in California, several attempts to make them having heretofore failed. These candles are pronounced by good judges fully equal to the best imported. They are manufactured by Wm. H. Scovill & Co., of this city.

WHATEVER affords security against the attacks of fire, must be an article high in popular favor. The fire-proof doors and shutters, manufactured by John R. Sims, afford this kind of security, and are therefore popular. He also manufactures balconies, bank vaults, gratings, railings, etc. Place, Oregon street, between Front and Davis, Washington and Jackson.

BRASS AND BELL FOUNDRY.—In the line of brass articles, Gallagher, Weed & White, 125 First street, have a full supply of their own manufacture. Bells and locks are specialties of their trade.

WILLIS' BAND, at the Fair, commences its afternoon performances at two o'clock. In the evening it commences at seven and a half o'clock.

AGRICULTURAL IMPLEMENTS.—John D. Arthur & Son are capable of supplying every demand in the line of agricultural implements. Their stock embraces the kinds generally in use, with all the modern improvements.

THE gross receipts of the Fair, from all sources, on Monday evening, amounted to $16,274.55.

THE receipts of the New England Kitchen up to and inclusive of Monday evening—deducting expenses—are $2,954.54.

[From the DAILY FAIR PRESS, Wednesday, August 23.]

THE SINGER SEWING MACHINE.—Two notable features of this beautiful machine, which may have escaped general observation, are, first, the folding cover, which when closed forms a box for the exclusion of dust and protection of the machine; and, second, the screws which adjust the frame to stand evenly on an uneven surface, and to force out the wheels or castors under it, to facilitate and render easy its removal to any part of a room. Of its numerous merits in the stitching department we do not propose to speak. The machine is vastly admired, and occupies high rank among its competitors for pre-eminence.

WARD'S SHIRTS.—The praises of Ward's Perfect Fitting Shirts" have been sounded everywhere. The proprietors, at 323 Montgomery street, ask only that they shall be tried to furnish the proof of their oft repeated declaration that they have no superior. "Cleanliness," it is said, "promotes godliness." Take a bath and put on one of Ward's perfect-fitters, ye sinners; godliness is a thing that ye all stand much in need of!

COMFORTABLE AND CONVENIENT.—The Superintendent of the Fair, (Mr. Gardiner Elliott,) has added greatly to the comfort of his guests by providing three of the art galleries with backed benches—two rows in the center of each room—so disposed as to face each way, and enable the ladies (lubberly boys and rude gentlemen will please observe that these seats have been specially provided for the ladies), to gaze upon the beautiful works of art with which the walls are adorned, while seated. Mats are also laid upon the floor to prevent the currents of air circulating through the cracks of the floor from making their feet cold.

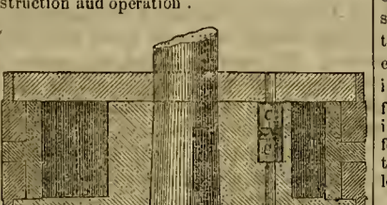
PRESSURE PISTON PACKING.

Among modern inventions in the manufacture and working of steam machinery, and they number legions, there are few which afford us more plain or self-evident economy than those relating to piston packing. Several patents for packing have been adopted into use during the past few years, which are claimed, with more or less merit, to make a decided saving in steam and an important increase of power to machinery. In fact, actual use has so thoroughly demonstrated the value of such improvements, that the most intelligent minds among our engineers now admit of no question in the matter further than that of "which is the best and most practical kind of steam pressure packing yet invented?

In answer to such an important interrogation, we are happily enabled to introduce the claims of a recent and highly worthy California invention.

STEVENS' PRESSURE PACKING

Was patented by the United States Government, March 7th, 1865, by Andrew Stevens, at present master mechanic on the Alameda and San Leandro Railroad. It is manufactured at the Vulcan Iron Works, on First street, in this city, the proprietors of which establishment have furnished us the use of the accompanying engraving and following description of its construction and operation.



Steam is admitted into the body of the piston through the small valves C, C, and by its pressure and expansive force keeps the rings steam tight against the cylinder without creating any undue friction. The valve on the steam side remains open until the pressure in the cylinder, either by expansion or exhaust, falls below that in the piston, when it closes, and the steam by its expansive force retains the rings against the cylinder to the end of the stroke, when the action is again repeated.

Among many advantages claimed, is

1. Absence of friction of the rings on cylinder, proven by the tool marks remaining on the cylinder after six months constant running.

2. The retention of the steam inside the piston by means of the two valves—thereby preventing waste.

3. The steam being of the pressure inside of the piston as it is outside—the piston may overrun the counterbore without damage, and thereby prevent a ridge being formed in the ends.

4. The body of the piston fitting the inside rings, keeps the piston always in the center of the cylinder.

5. The increased ring surface, which wears much longer than narrow ones.

It is not only the saving in steam and fuel which lends importance to this invention. The economy in the cost of machinery for a given amount of power must be equally great, as also the benefit to be derived from the concentration of power into small space and weight. Space is a great consideration in the running of our steamers, for time is money. If the machinery can be lightened, and its power increased in our river steamers, the delays of mud flats and "hogsbacks" will be dispensed with. Such are among the advantages which will be secured in a greater or less degree, by the application of the most perfect pressure packing. The proprietor of Steven's packing refers with great confidence to many prominent parties who have tested by thorough application this most useful invention. Engines using it have been running from three to twelve months without being opened or exhibiting any leak.

THE SPELLING SCHOOL.—Our anticipations were fully realized in predicting for that performance last night, in the New England Kitchen, a great display of wit on the part of the actors, and enjoyment to the audience. The latter was unusually large; and their frequent outbursts of laughter indicated how hugely they enjoyed the entertainment. Jonathan "laid himself out." He was felicitous to the extreme point of superlative admiration! The apron became him; and the part—that of the village dunce, meddlesome and mischievous—was more life-like than anything he had previously essayed. But Zeke, where was Zeke? We missed his familiar countenance, and sighed that he should be absent from duty. It was in vain that the ferocious looking whiskerands in scarlet breeches, and the sallow faced youth with the small voice and soup-locks attempted to supply his place. They were deficient in jest. Their lessons had not been sufficiently conned. In fact they were not like Zeke, blessed with "genus." Old Poffendorff, the pedagogue, was kept busy. He wielded the birch gracefully, but allowed Jonathan and his modesty to embarrass him to much. But, as the theatrical critics say, "familiarity with the stage business will remedy that defect." To-night an old-fashioned "donation party" is to be held for the benefit of the village parson. Jonathan will be on hand, and Zeke also, if the management are successful in effecting his re-engagement!

THE HANSBROW PUMPS.—Mr. Thomas Hansbrow, of Sacramento, is acquiring great reputation as an inventor. He is the "Ericcson" of the Pacific coast. At the last World's Fair in London, he carried off the gold medal for one of his model pumps. This year he has several specimens of the same on exhibition at the Pavilion, of great merit. His hydrostatic engine, alone, ought to have rendered his name immortal among inventors. We regret, therefore, that he should degrade himself by becoming a candidate, as he has done, for the California Legislature! He ought to be old enough to know that it is the *first step* in crime that leads to destruction!

HANDSOME PICTURES.—This morning, Mr. F. L. Tilston, agent for the Wheeler & Wilson Sewing Machines, brought up from his office to the Pavilion four beautiful paintings—three in oil and one in water colors—which were assigned a conspicuous place in one of the art galleries. Two of these pictures are views of Lake Tahoe; one of Yosemite, and the fourth a group of pretty girls, which the bachelors will not fail to admire.

NEW ENGLAND KITCHEN.—Visitors are beginning to resort to this institution as a place of amusement where the entertainments are sprightly as the play. The characters each evening are cast; and although the parts are not studied, there is a native wit about the girls which imparts to their impromptu actions and utterances a zest at all times acceptable to the audience. As to Zeke, he so far outstrips Setchell, that the latter has failed to "draw" since Zeke donned the sock and buskin. Zeke is the twin prodigy to Bottom—always fresh; always hilarious; never at a loss for an antic or a sally. Pity the theatre *comique* should have lost the benefit of his transcendant powers!

And Jonathan! Of course you have noted Jonathan's tricks. His versatility surpasses Dogberry's; his gravity and wisdom that of the First Grave Digger in Hamlet. Jonathan is bully! his costumes are from the establishment of Mm'lle Termy, selected with rare discrimination, and varied to suit the *role* in in which he is to appear. If we were going to produce an original comedy, and were in London, or any other part of Europe, we should certainly employ the Atlantic telegraph (if it were operating) to send a dispatch, securing the services of these brilliant performances for an engagement!

Aunt Susan announces that her programme will, this evening consist of a spelling school, singing and dancing. (You must hear Zeke and Jonathan spell; they are "stars" in such parts.) To-morrow evening there will be a "donation party" for the village parson, and other amusements. Jonathan and Zeke, as usual, sustaining the leading characters.

BIRD'S EYE VIEW.—Visitors to the Pavilion can enjoy a very interesting bird's-eye view of of the audience and articles on Exhibition in the main hall, by ascending to the elevated platform on the north side, which has the capacity to accommodate nearly a hundred persons at a time, and where seats have been provided for the comfort of ladies.

LAYNE G. AND S. M. CO.

This company own one of the earliest discovered, and one of the finest silver mines in this State. The mine is situated in Placer County, about four miles from Folsom, and is easy of access, having on this account a great advantage over the more distant and famous mines of Nevada. Mr. Layne has just shown us some bricks of gold and silver bullion from ore from this mine. One lot, he informs us, of 1,900 pounds of second class ore from this mine, worked at the Pacific Metallurgical Works, in this city, gives $36 in silver and $16 in gold, while a lot of third class ores, worked at the same establishment, gives us a result, $20 per ton in silver and $10 in gold. One hundred pounds of first class ore, worked at the San Francisco Foundry, yielded at the rate of $95 per ton in gold and silver, the latter predominating.

We are of the opinion that this mine, taking into consideration the large body of pay ore, the paying portion of the vein being represented as ten feet in width, and its ease of access, will, provided it continues to improve at the rate which present appearances would seem to indicate, prove of more real value than any of those located on the famous Comstock.

The particular attention of visitors is requested to the specimens from this mine, in the collection at the Fair, including the first silver brick from ore from this mine, which Mr. L. claims as the first ever obtained from a California mine.

BOOK BINDING.—None of the mechanical arts progress more rapidly than book-binding. Twenty-five years ago the process was almost as tedious as book printing; but the numerous improvements in machinery adapted to that kind of labor have vastly simplified, economized and perfected it. A glance at the elegantly bound books turned out of the establishment of Edward Bosqui & Co., 517 Clay street, affords evidence of the skill with which this machinery can be applied. The ledger and day book, the annual and souvenir, the speller and Bible, after undergoing the manipulations to which they are subjected in the establishment of these gentlemen, become equal objects of ornamentation for the desk, the centre-table, or library.

A. ROMAN & Co.—The fame enjoyed by this publication house is becoming national. It is a vast library, in which may be found all the standard works and light literature of past and current dates. As yet, the amount of publishing done on the Pacific coast is not very great. We have hosts of writers, but not many authors; and those that we have scarcely venture so far as to produce a book. However, there will be an increase of this kind of mental labor as the country grows older; for neither is there any lack of the *cacoethes scribendi*, nor a deficiency in that kind of ambition which would signalize itself at book-making if it could be an insured success. In the meantime, the book trade, so far as reading is concerned, can be amply supplied by the prosperous house to which we are alluding.

AXLE GREASE.—Hucks & Lambert are known on this coast, where a wheeled vehicle has gone or a dry hub creaked. Their celebrated axle grease has moistened the running gear of many a "prairie schooner," and, it is said, of late years is becoming equally famous as a lubricator for machinery. Shouldn't be surprised. Lightning itself travels faster when it is *greased*.

FIREMAN'S FUND INSURANCE CO.—The capital stock of this company is $500,000. Those who insure in it have the satisfaction of knowing that their money goes to the support of a very worthy object. Its office is at 238 Montgomery street, and its affairs under the immediate control of S. H. Parker, President, and Charles R. Bond, Secretary.

A BUTCHER at Lyons has just been fined ten francs and costs, for weighing with a piece of meat the paper with which it was to be enveloped.

[From the Daily Fair Press, Friday, August 25.]

THE FAIR A SUCCESS.

There were a number of reasons operating to raise a doubt in the minds of the managers, as to whether the Industrial Exhibition of the present year would prove as great a success as those of the past. In a new and comparatively thinly populated State, isolated in its position with reference to other States of the Union, the number of inventors must necessarily be limited, and without something new each year of this kind to draw and interest the attention of the industrial masses, a chief feature of attraction at such places is wanting, not to be supplied by the ten thousand minor products of ingenuity, such as add beauty and brilliancy to a collection, without carrying with them the utility belonging to devices of the higher order of genius. The most celebrated works of art, and the most skillful inventions, had already been exhibited, which led to the presumption that they might not again be placed in the Pavilion for public inspection. The transportation of heavy machinery, its erection, the attention and material necessary to show it to advantage; the expense of removing it from the hall when the Fair is over; the stringency of the money market, and other causes, all combined to justify the apprehension to which we have alluded; and yet, despite these adverse considerations, the Fifth Annual Fair of the Mechanics' Institute compares very favorably in all its features, excepting only the heavy machinery department, with that of last year, which excelled by long odds those that had preceded it. The receipts promise to be much larger than those ever heretofore received.

As a place of fashionable resort, the Pavilion has many inducements, which the young folks have not been slow to discover. The nightly attendance of this portion of community is very large, and that they are abundantly satisfied with the nature of the entertainment offered, is rendered apparent in the fact that hundreds if not thousands of the same faces are repeatedly seen by those who make their constant promenades around the spacious hall.

There will not probably be another Fair held under the present auspices for several years to come. The object which the members of the Mechanics' Institute had in view in first inaugurating the project, was to pay off a large debt of their society. The proceeds of the present Fair will enable them to have accomplished that purpose, and in addition, to purchase a lot for the enlargement of their premises, besides increasing the number of books in their library. After the Fair has closed, the building in which it is held will be taken down. This may be regarded as a foregone conclusion, inasmuch as the residents in that portion of the city object to it as an unsightly incumbrance to the lot which has been set aside by the city and devoted to the purposes of a public square. The last opportunity, then, for a long time to come, is offered to those who wish to examine the collected works of art, science and invention of the State, and in so doing patronize a most laudable and worthy object. The pittance expended for admission will be a thousand times repaid in the valuable nature of the information acquired.

Russ House.—This extensive hotel, the largest in the State, has always enjoyed an excellent reputation in the interior as well as nearer home. The change of proprietorship which occurred only a few weeks ago, has had the effect to add to, rather than diminish, the measure of its popularity. Mr. Pearson was formerly himself a landlord, in Nevada county, with a wide and favorable acquaintance. The mountain people therefore hold him in kindly remembrance, by patronizing him when they come for a brief sojourn to the city. The Russ House is on Montgomery street, in a central portion of San Francisco, easy of access, and must always receive its full share of the public patronage.

Dead.—The other evening a death occurred in the Pavilion of the Fair; the first, as we hope it may prove the last and only one of that institution. It was the death of the large sturgeon, which had only a few hours previously been placed in the basin surrounding the fountain.

A New Art.—Major Jack Stratman, of the news depot, brought out from New York with him recently, and has placed in the Fair for exhibition, several specimens of a new art—or rather, an old art with a new application—of photography, by which likenesses are transferred from the card to china, porcelain or white delph ware, and is rendered as durable as the colors originally imprinted there by the manufacturers. Major Stratman is exclusive agent for the patentees on the Pacific coast. A lady owning a valuable set of china, or a father wishing to make a holiday or birthday present to his children in the shape of a cup, at a trifling cost can have the likeness of either the donor or owner, or both, transferred to each separate piece, as the best and most elegant style of obtaining for it identity and recognition.

Which Should Apologize?—Last evening, in his attempts to elbow his way through the crowd in one of the avenues of the pavilion, a gentleman stepped upon the trail of a lady's dress, tearing her skirt loose from a portion of its waist fastenings. With as much dexterity as he could possibly command in so contracted a space, he attempted to get off the lady's dress, but in doing so, trod upon that of a second lady, tearing it also, tripping and falling with his side against one of the tables, by which he was severely, although not seriously injured. The ladies looked daggers, and muttered something which the gentleman could not understand, on account of being at the time himself engaged in the mental exercise of combining a variety of expressive phrases, which were better, perhaps, suppressed than uttered. Now, the question arises, who was at fault? Gentlemen have *some* rights on the sidewalks, in the street cars, and at places of public amusement. If the ladies *will* wear their skirts long enough to bedraggle, to sweep a track through the dust, and be trodden upon, can the gentlemen help it?

A Valuable Invention.—The new binder for sewing machines, invented and lately patented by Mr. George Vincent, of Stockton, is a most ingenious and useful appendage to the little iron-armed workers which at the present day take such active part in lightening the labors of our households. It can be seen in the Florence department of the Fair, the inventor having so far particularly adapted them to this machine, which we suppose, until we saw the new binder, embodied within itself all that the ingenuity of man could produce, or the heart of woman desire in a sewing machine. One binder, without change, puts on binding of various widths with the greatest ease and rapidity and in a perfect manner. The bottom of a dress can be bound in three minutes, and what ever kind of binding used, it is put on without being drawn or stretched in the operation, which is the great feature of the invention, and will be understood and appreciated by those who have attempted to do good work with the imperfect contrivances heretofore used for the purpose. This new invention, when compared with the thousand and one appliances that have been patented for sewing machines, must rank next to the sewing machine itself, in utility, as no sewing machine can now be considered complete without the "Vincent Binder." We congratulate Mr. Hill on having secured this valuable addition to his popular machines.

Boots and Shoes.—Reader! have you ever considered what a vast number of boots and shoes must be worn out annually in a city of a hundred and twenty thousand souls—two hundred and forty thousand *soles!* The little people must have a pair about once every month. It affords them delight to knock the toes out; and the grown folks use up three or four pairs a year. Such a vast demand necessitates an immense supply, such as Wm. F. Burke, importer, corner of Montgomery and Pine streets, keeps always on hand, boxed for home demand and shipment. He thinks he is equal to any run that is likely to be made upon him, so that jobbers and country merchants need have no apprehensions of suffering for a supply. They have the hint, and will know just how to act upon it.

Trunks.—The developments of modern science, no less than the practical experience of modern cosmopolitans and travellers, furnish evidence to sustain the declaration that "the dearest article is the cheapest." Who that has paid five dollars for one pair of boots, for instance, and fifteen dollars for another, has not found that the cheap pair are manufactured from some inferior article, and go all to pieces when subjected to some severe test, and that the pair which was considered dear, exhibits no signs of dilapidation when the others are entirely worn out. Nothing demonstrates the axiom more truly than a trunk. Such an article, composed of side or sole leather, will last a life-time; the cheap trunk is used up in half a dozen stage-coach excursions. Ask Mr. James Longshore, 208 Bush street, or 306 Sansome street, if this is not so.

The House of Field & Co.—This firm has only recently opened up at the corner of California and Leidesdorff streets, No. 422. It is an importing house of wines, brandies and other liquors. Mr. S. S. Field was formerly a partner in the well known house of Despecher & Field, Sacramento. He gives his personal attention to the business, and is a gentleman with whom every one will find it a pleasure to deal. The house pays particular attention to filling out orders for clubs, social parties and families. We heartily commend it to popular favor.

A Crowded Audience.—A vast multitude of people were in attendance at the Fair last evening. The spacious hall of the pavilion was crowded so that it was difficult to get along, and the New England Kitchen was literally jammed with people.

Articles Found.—It is perhaps not generally known that most, if not all the articles lost in the pavilion of the Fair, are picked up and carried into the office of the clerks, where they can at any time be procured. The collection of articles already deposited there for identification is quite large, and includes ladies' kid gloves, children's woolen gloves, children's scarfs, neck-ties and comforters, ladies' veils, head-dresses, laces, kerchiefs, etc.

The Blue Ledge.—Number 490, in our cabinet of minerals, is a lot of rock from what is claimed to be the genuine Blue Ledge, in El Dorado county, which, by the way, should not be confounded with the Blue Ledge company incorporated in this city. This rock although it does not show much gold to the eye, is nevertheless very rich. We have seen a letter from the superintendent, dated Spanishtown, August 17th, saying that he had just put in a heavy blast which threw down a large mass of rock literally filled with gold. The rock thrown out by this blast is of a darker hue than the previous average, showing more sulphurets, and giving indications of much richer yield.

New Use for a Soda Fountain.—Mr. Frink has claimed for his recent improvement on the Soda fountain, that he could make it propel machinery; and to redeem his word has introduced on his counter, in the Pavilion of the Fair, a neatly constructed miniature steam engine, with a pipe attachment to his apparatus, and when the gas is let into its cylinder the motion of the machinery is rapid and perfect. The fountain itself has, from the beginning of the Fair, been a great object of attraction, which is now vastly increased by this new and novel feature.

Scene in the Clerk's Office at the Pavilion.—Enter gentleman, inquiring of J. H. C., "Can I get a card here with "Hands Off?"

Clerk.—"*A hand saw?*"

The roar of laughter that followed convinced J. H. C. that he had been slightly mistaken in the nature of the question.

Proceedings at the Pavilion.—This afternoon, at three o'clock, Hon. Schuyler Colfax and party were present, as per appointment, at the Pavilion of the Fair. A meeting was organized, with Mayor Coon as Chairman, which was addressed by Mr. Colfax, Lieut. Gov. Bross, of Illinois, and Mayor Coon. About 1,500 persons were in attendance. The ladies of the New England Kitchen occupied a seat in front of the rostrum, dressed out in their characteristic array.

THE ATLANTIC TELEGRAPH CABLE.

On the 24th of June the Great Eastern, according to advertisement, steamed out of the river Medway, and proceeded to the anchorage selected for her at the Nore, from which point she would sail for the purpose of laying down the Atlantic Telegraph cable, about the 8th of July. All the arrangements for the accomplishment of the work had been made with such care and foresight that it was hardly thought possible there could be any failure, unless from the intervention of a severe storm, which might break the line and scatter the fleet engaged in laying it. They were looking for intelligence at New York, on the 25th of July, that the work had been successfully completed.

The Great Eastern had in her 7,000 tons of cable; 2,600 miles in all; 500 miles more than, with good luck, would be wanted. Add tanks, coal and engines, and the burden of the ship would be 21,000 tons, 3,000 less than her tonnage capacity. For convoy she had two British ships of war. Our Government was applied to for the loan of a national vessel, but replied with dignity on the ground that vessels of the United States were still subject to restrictions in leaving British ports. Valeutia, on the coast of Ireland, was to be the starting point; Heart's Content, Trinity Bay, Newfoundland, the destination of the telegraphic fleet. But the Great Eastern would not approach Valentia nearer than 25 miles, and would there splice the ocean cable with the shore end previously laid. On this side, the deep sea cable would reach to within three miles of the shore, and at that point be spliced. From Valentia, the shore end would be the heaviest and strongest piece of cable ever made, weighing per mile about half as much as an ordinary railway track. It was to be laid from the head of a sheltered inlet near Cahirciveen, and the sea end buoyed and watched by the ships of war till the Great Eastern came up. The splicing of it with the end of the main cable would be a matter of five hours' work, and when that was done, the voyage of the ships and paying out of the cable would fairly commence. The telegraphic charges were to be £20 per twenty words.

Good Idea.—It is stated that in Maine there is a law which allows a certain reduction of taxes to each man who will put up, and keep in good condition and well supplied, a trough or tub for water, on any public roadside. A reduction of taxes is also made for those who will plant and raise shade-trees alongside of the highways. Three dollars a year is the amount deducted for the water arrangement, and a certain sum is deducted for each tree grown. It would be a good thing to adopt similar statuary regulations in this State. A little encouragement of this sort would induce farmers everywhere to plant trees on the roadsides, and soon cooling shades would spring up to destroy the monotony and discomfort of our dry, dusty, and shadeless highways.—*Call, June 16th.*

Origin of Stockings.—The stockings worn by the ancients consisted of strips of linen, or of the skins of animals. The Normans wore them made of cloth, or of costly stuff, embroidered and decorated with gold and silver. Knit worsted stockings were imported first in the time of Henry VIII., and were worn by the gentry of that period; and in 1530 a pair of silk stockings was sent to that monarch from Spain. In the time of Queen Elizabeth it was common for young men of rank to wear stockings of different fashions and different colors on each leg. In 1561 the first pair of silk stockings were knit in England, and were presented to the Queen. About the same period the method of knitting worsted stockings was brought to that country. In 1859 a machine for weaving stockings was introduced by Wm. Lee, and this laid the foundation of the extensive stocking manufacture now carried on in England.

Mountain Quail.—Natural History.—Our friend, Sam Hodge showed us some young mountain quails which he saw coming out of a nest in an oak tree, on his ranch from a height of about twenty feet. They were but recently hatched, as a few had the shell on their backs when they alighted on the ground. They spread their wings as they emerged and let themselves down to the earth with ease and comfort. The mother remained in the tree. This is a somewhat remarkable circumstance, as quail generally hatch on the ground.—*Grass Valley National.*

San Francisco Stock and Exchange Board.

SAN FRANCISCO, August 23, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ 75	$ 75¼
Gov. Legal Tender Notes	73¾	74
State Bonds, 7 ₱ cent	80	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	..	..
San Francisco Bonds, 1858, 6 ₱ cent	65	70
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	50	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	..
Butte County Bonds, 10 ₱ cent	74	..
California Navigation Co	82	83½
State Telegraph Stock	30	35
San Francisco Gas Co	92½	94
Sacramento Gas Co	86	..
Spring Valley Water Co	51	51½
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	..	..
Central Railroad Co	..	..
North Beach and Mission	39¼	..
MINING STOCKS.		
Ophir	$ 350	$ 355
Gould & Curry	1375	1400
Empire M. & M. Co	385	390
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	1275	1310
Cholar	510	520
Potosi	490	495
Hale & Norcross	490	500
White & Murphy	....	....
Sierra Nevada	22	23
Daney	....	....
Burning Moscow	34	35
Lady Bryan	5	5½
Sacramento & Meredith	....	....
Durnside	....	5
Iowa	....	....
El Dorado	....	....
North American	28	29
Baltimore American	15	20
Yellow Jacket	1480	1500
Overman	200	215
Cedar Hill Tunnel	....	....
Wide West	0½	7
Crown Point	1160	1170
Autelope	....	....
Esmeralda	....	10
Etna	....	....
Real del Monte	12	15
Silver Hill	....	....
Utah	....	....
Justis	15	25
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co	....	35
Melones and Stanislaus	....	....
Sheba	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H	175	180
Buckeye	....	....
Dick Sides	....	....
Imperial	245	250
Alpha	1800	1850
Bajazett	....	....

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	55@ 60
do pickled ₱ lb	40@ 50
do Oregon	30@ 35
do New York, ₱ lb	30@ 35½
Cheese, ₱ lb	20@ 25
Honey, ₱ lb	40@ 50
Eggs, ₱ doz	55@ 60
Lard, ₱ lb	25@
Hams and Bacon, ₱ lb	20@ 25
Cranberries, ₱ gal	75@
Potatoes, sweet, ₱ lb	6@ 8
do Irish, ₱ lb	2@ 4
Tomatoes, ₱ lb	5@ —
Onions, ₱ lb	5@ 6
Apples, No. 1, ₱ lb	3@ 6
Pears, table ₱ lb	3@ —
Plums, dried, ₱ lb	10@ 15
Peaches, dried, ₱ lb	10@ 15
Grapes, Foreign, ₱ lb	20@ 40
Oranges, ₱ 100	2 50@ 3 00
Lemons, ₱ 100	5 00@ 6 00
Chickens, apiece	75@ 1 12

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	5 50 @ 6 50
Do Superfine	5 00 @ 5 75
Corn Meal, ₱ 100 lb	@ 4 00
Wheat, ₱ 100 lb	1 60 @ 1 75
Oats, cwoice, ₱ 100 lb	1 50 @ 1 65
Barley, ₱ 100 lb	1 00 @ 1 05
Beans, ₱ lb	3 @ 4 00
Potatoes	85 @ 1 00
Hay, ₱ ton	10 00 @14 00
Live Oak Wood, ₱ cord	8 00 @10 00
Beef, on foot, ₱ lb	8 @ 10
Beef, extra, dressed, ₱ lb	16@ 22½
Sheep, on foot	1 00@ 2 00
Hogs, on foot, ₱ lb	8 @ 12
Hogs, dressed, ₱ lb	12 @ 15
Groceries, Etc.	
Sugar, crushed, ₱ lb	16 @ 16¾
Do China	10 @ 12½
Coffee, Costa Rica, ₱ lb	22 @ 23
Do Rio	22 @ 23
Tea, Japan, ₱ lb	86 @ 95
Do Green	70 @ 90
Hawaiian Rice, ₱ lb	@ 10
China do.	8 @ 10
Coal Oil, ₱ gal	1 25 @ 1 50
Candles, ₱ lb	20 @ —
Ranch Butter, ₱ lb	45 @ 55
Isthmus do	30 @ 33
Cheese, California, ₱ lb	20 @ 20
Eggs, ₱ doz	55 @ 60
Lard, ₱ lb	23 @ 25
Ham and Bacon, ₱ lb	23 @ 25
Shoulders	15 @ 18

HEAVY SHIPMENT.—We saw yesterday at the office of Wells, Fargo & Co., in Gold Hill, twenty-seven bars of glittering bullion awaiting shipment to San Francisco. The value of the same was $39,677 52, and its weight 1,414, pounds. For several weeks our shipments of bullion have largely exceeded those of Virginia, owing probably to the fact that we have established in our midst the finest assaying

BEAUTIFUL EXTRACT.—When the summer of youth is slowly wasting into the nightfall of age, and the shadows of the past years grow deeper and deeper, as if life were on its close, it is pleasant to look back through the vista of time upon the sorrows and felicities of years. If we have a home to shelter and hearts

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and all other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Alpha, Gold Hill	$20		Aug 26—Sept 27
Alpha, Gold Hill		Special Meeting	Aug 29
Arizona Copper, Arizona, 10c			Sept 16—Sept 30
Blue Ledge, El Dorado co		Annual Meeting	Aug 28
Baltimore, Alpine co		Annual Meeting	Sept 16*
Bacon M. & M. Co., $10			Payable May 10
Burning Moscow, Storey co., $10			Aug 16—Aug 29
Belcher, Baldwin & Abernethy		Dividend of $17,	June 3
Blue Ledge, El Dorado co., $1.50			Aug 16—Aug 30
Baltimore American, Storey co., Nev., $5			Sept 5—Sept 19
Boston, El Dorado co., 50c			Sept 18—Sept 30
Camargo (Eclipse), Lander co. $5			Aug 19—Sept 6*
Chloride Ledge, Calaveras co., $1			Aug 19—Sept 2*
Confidence,		Dividend, $100 per foot	May 1
Cholar, Storey co., Nev., $85			Sept 18—Oct 2
Chipioneua, Sonora, Mex., $5			Aug 26—Sept 8
Cosala, Sinaloa, Mex., $1.50			Aug 23—Sept 9
Cole, Storey co., Nev., $1			Sept 4—Sept 19
Coabortita, Sinaloa, Mex., $5			Sept 1—Sept 12
Consolacion, Sinaloa, Mex., $2			Aug 30—Sept 11
Central, Storey co., Nevada, $5			Sept 6—Sept 26
Cordillera, Chihuahua, Mex., $2			Sept 10—Sept 23
Coal Creek, Sonoma co., 50c			Sept 4—Sept 16
Daney, Lyon co		Quarterly Meeting	Sept 4
Daney, Lyon co., Nev., $1.25			Aug 11—Aug 28
Emilia, Guerrera, Mex., 25c			Sept 16—Sept 30*
El Dorado, Alpine co		Annual Meeting	Sept 16*
Eagle Quartz, Amador co, 75c			Sept 2—Sept 23*
El Tesoro, La Paz, 50c			Sept 19—Sept 30
Empire M. & M. Co		Dividend Payable	Aug 10
Franco Americana, $1			Sept 12—Sept 25
Globe, Alpine co., $2			Sept 23—Oct 12*
Governor Nye, Alpine co		Annual Meeting	Sept 7*
Geo. Washington		Annual Meeting	Sept 18*
Great Western, Aurora, 10c			Aug 26—Sept 9*
Golden Rule, Dividend			Payable Aug 20
Good Hope, Alpine co., 50c			Aug 12—Aug 26*
Geo. Washington, Alpine co., $1			Aug 12—Aug 26*
Gould & Curry,		Dividend,	$40 Aug 5
Great Consolidated, Boise River, Idaho, 50c			Aug 21—Sept 1
Gov. Nye, Devil's Gate, Nevada $1			Sept 12—Sept 25
Hanscom Copper, Del Norte co., 15c			Aug 26—Sept 12*
Honest Miner, Lander co., 50c			Aug 26—Sept 12*
Halleck, Alpine co., 50c			Aug 26—Sept 9*
Illinois, Alpine co		Annual Meeting	Sept 19*
Imperatrice Eugenie, Calaveras co., 25c			Sept 2—Sept 19*
Imperial		Dividend Payable	Aug 10
Jewett, Gold Hill, Nev. $1			Aug 19—Sept 2*
Jura, American Flag dist., Nevada, $1			Aug 23—Sept 9
Bolinas, Marin co., 50c			Sept 16—Oct 2*
Kimbiln, Sierra co., $25			Sept 16—Oct 2*
Keystone, Calaveras co			Sale Sept 12
Kentucky, Calaveras co		Annual Meeting	Sept 5
Leland, Arizona Territory, 25c			Sept 16—Oct 2*
Lady of the Lake, Arizona Territory 25c			Sept 16—Oct 2*
Lancha Plana, Calaveras co		Annual Meeting	Sept 6*
Lady Franklin, Alpine co., 50c			Sept 16—Oct 6*
Lord Byron, Devil's Gate, 50c			Aug 26—Sept 11*
La Victoire, Mariposa co., $3			Aug 12—Aug 28*
Lotus, Calaveras co., 15 cts			Aug 15—Sept 2
La Blanca, Sonora, Mex., 3.50			Aug 23—Sept 9
Lady Bell, Del Norte co., 10c			Sept 4—Sept 15
Lady Bryan, Storey co., Nev. $2.50			Sept 20—Oct 2
Mammoth, Alpine co		Annual Meeting	Sept 9*
Mosquito Quartz, Calaveras co., $5			Aug 26—Sept 15*
Maggie, Lander co., Nev., $3			Sept 23—Oct 5
Mina Prieta		Adjourned Meeting	Aug 26
Morning Star, Alpine co., Nev. $1			Sept 21—Sept 30
Napa, Alpine co		Annual Meeting	Sept 12*
Nuestra Sen. de Guada'oupe, Durango, 50c			Sept 11—Sept 22
New Hope, Lander co., Nev. $1			Aug 14—Sept 2
Nonpareil, Tholumne co., $2			Aug 31—Sept 16
North American, Virginia, $10			Levied Aug 14
Old Colony, Reese River, $5			Aug 26—Sept 11*
Ontario, Lander co., $1			Aug 22—Sept 4
Ontario, Lander co		Annual Meeting	Sept 4
Ophir		Special Meeting	Aug 30
Paragon, Petroleum		Annual Meeting	Sept 2*
Porter, Virginia, Nev. $5			Sept 2—Sept 16*
Potosi, Storey co., Nev., $25			Sept 18—Oct 2
Patrocina & Dolores, Chihuahua, Mex., 1.50			Sept 1—Sept 15
Petaluma M. & M. Co., Dividend of 5 ₱ cent			Aug 9
Peninsula, San Antonio, L. Cal., $10			Aug 28—Sept 12
Patrocina & Dolores		Annual Meeting	Aug 28
Prima Dona, Devil's Gate, Nev		Annual Meeting	Sept 6
Pennsylvania, Alpine co., $2			Sept 9—Sept 28
Rochester Cons., San Bernardino co., $1.25			Aug 16—Aug 28
Revenue, Lander co., Nev., $1			Aug 26—Sept 13
Rancheria, San Antonio, L. C. 40c			Sept 2—Sept 16
Refugio, Chihuahua, Mex., $2.50			Sept 9—Sept 23
Santa Anna Petroleum		Annual Meeting	Sept 4
Santa Cruz Petroleum, Santa Cruz, 30c			Sept 16—Sept 30*
Santa Cruz Petroleum		Annual Meeting	Sept 26*
Sierra Nevada, Alpine co		Annual Meeting	Sept 12*
Silver Prize, Alpine co		Annual Meeting	Sept 20*
Silver Creek, Alpine co		Annual Meeting	Sept 19*
St. Clair, Smoky Valley, 50c			Sept 2—Sept 16*
Sheba, Humboldt co., Nev., $25			Aug 19—Sept 2*
Smoky Valley, Smoky Valley dist. $1.60			Aug 12—Aug 30*
Southern Light, R. R. 50c			Aug 19—Sept 6*
Simpson M & M Co., Alpine co., 60c			Aug 19—Sept 2*
Scott M & M Co., Humboldt co., Nev., 80c			Sept 9—Sept 25*
Sierra Nevada, Alpine co., 75c			Aug 12—Aug 26*
Savage,		Dividend, of $75	May 5
Santiago		Dividend	May 17
Stephen A. Douglas, Lander co., Nev. $6			Sept 18—Oct 3
Santa Cruz, San Antonio, L. C. $2			Aug 8—Aug 23
San Francisco, Del Norte co., 70cts			Sept 1—Sept 13
Sweet Vengeance, Yuba co., $1			Aug 19—Sept 4
Siempre Viva, Sinaloa, Mex., $2.50			Aug 29—Sept 9
Sierra, Douglas co., Nev., $2			Sept 8—Sept 29
Table Mountain, Calaveras co., 50c			Sept 23—Oct 12*
Tip Top, Alpine co		Annual Meeting	Sept 18*
Tuolumne Mountain, 50c			Sept 13—Sept 23
United States, Lander co			Meeting Sept 4*
Union No. 2, Calaveras co., $1			Sept 9—Sept 23*
Vulcan, Lander co, 50c			Sept 16—Sept 30*
Wide West, Alpine co		Annual Meeting	Sept 7*
Williton, Alpine co		Annual Meeting	Sept 5*
Wisconsin, Alpine co		Annual Meeting	Sept 18*
Wisconsin, Alpine co. 1			Aug 20—Sept 9*
Whitlach Yankee Blade, Lander co., $10			Aug 26—Sept 12*
White & Murphy, Storey co., Nev.		Annual Meeting	Sept 5
Yellow Jacket,		Dividend of $100	May
Yankee Blade, Lander co., Nev. $1			Aug 12—Aug 29

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Alpha	July 25	350 00
American Flat Nevada	July 23	2 00
Baltimore American	August 4	5 00
Branch Mint	Aug 22	1 50
Bishop	Aug 18	1 00
Chrystal Peak Consol	July 30	2 00
Cole	August 6	1 00
Cholar	Aug 18	31 00
Central	August 6	60 00
Globe	May 16	1 00
Hamilton	August 12	40
Imperial Consolidated	July 24	50
Jura	July 28	1 00
Lincoln	August 5	1 00
Lady Bryan	Aug 22	2 50
North Comstock	August 2	25
Nevada	July 25	10 00
Napoleon Consolidated	August 15	25
North American	August 12	10 00
Peak	August 10	1 00
Piute Copper Co	August 11	1 00
Potosi	Aug 18	50 00
Siegel	Aug 3	50
Union	July 28	25

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale
Allen	Sept 16	Virginia
Alamance	Aug 26	Virginia
Branch Mint	Sept 9	Virginia
Central Hawkeye	Sept 13	Gold Hill
Croesus	Aug 23	Gold Hill
Globe	Aug 15	Virginia
Eastern Crown Point	August 26	Virginia
Hamilton	Sept 12	Virginia
Independent	Sept 6	Virginia
Keystone	Sept 15	Virginia
Lincoln	Sept 6	Virginia
Napoleon Consolidated	Sept 25	Virginia
Opal	Aug 2	Virginia
Peck	Sept 9	Gold Hill
Sides	Sept 16	Virginia

FINISHED ITS WORK.—The California branch of the National Sanitary Commission has closed its glorious career, its mission of mercy and comfort to the brave defenders of our country having been completed.

North America

LIFE INSURANCE CO.,

No. 240 Montgomery Street,

SAN FRANCISCO.

The Most Liberal Company

IN THE UNITED STATES.

All Policies Non-forfeitable and Indisputable.

No Extra Charge for Residing in the Territories, or for Traveling to and from the Eastern States.

J. A. EATON & CO.,

Managers of the the Pacific Branch.

GUSTAVUS MEYER,

(LATE MEYER & SEIFERTH)

Maker of Models for Inventors and Mining Tools.

MANUFACTURER Assayers' Scales, Weights, and all articles used by Assayers; Mathematical, Optical, and Mining Instruments repaired and adjusted; Patterns, Small Steam and Air Engines (of the newest construction), and Hydraulic Pressure Pumps, made to order.
No. 531 Market street, opposite Sansome, San Francisco.
21v9-tfq

Constitution and By-Laws

—OF—

Mining and Prospecting Companies

Elegantly printed, with care and dispatch, at the office of the **Mining and Scientific Press.**

☞ Orders from the interior faithfully attended to. Packages which can be judiciously sent by mail will be prepaid our expense.

HELMBOLD'S

FLUID EXTRACT BUCHU

For Non-Retention or Incontinence of Urine, Inflammation or Ulceration of the Bladder or Kidneys, Diseases of the Prostrate Gland, Gravel, Brick Dust Deposits, Dropsical Swellings, Organic Weakness, Debility, Female Complaints, Etc.

H

HELMBOLD'S

FLUID EXTRACT BUCHU

—AND—

Improved Rose Wash

Will radically exterminate from the system Diseases arising from Habits of Dissipation, *at little expense, little or no change of diet, no inconvenience or exposure*; completely superseding those *unpleasant and dangerous remedies, Copaiba and Mercury*, in curing these diseases.

E

USE HEMBOLD'S

FLUID EXTRACT BUCHU

In all Diseases of the Urinary Organs, whether existing in MALE OR FEMALE, *from whatever cause originating, and no matter of how long standing*. It is pleasant in its taste and odor IMMEDIATE in action, and more strengthening than any of the preparations of *Bark or Iron*.

Those suffering from *Broken Down or Delicate Constitutions, procure the Remedy at once.*

The reader must be aware that however slight may be the attack of the above diseases, it is certain to affect his *Bodily Health, Mental Powers and Happiness*. If no treatment is submitted to, Consumption or Insanity may ensue.

All the above diseases require the aid of a diuretic.

Hembold's Extract Buchu

IS THE GREAT DIURETIC.

L

HELMBOLD'S

HIGHLY CONCENTRATED

Compound Fluid Extract Sarsaparilla,

For purifying the Blood, removing all diseases arising from excess and imprudence in life, chronic constitutional diseases arising from an impure state of the blood, and the only reliable and effectual known remedy for the cure of Scrofula, Scald Head, Salt Rheum, Pains and Swelling of the Bones, Ulcerations of the Throat and Legs, Ulotches, Pimples on the Face, Tetter, Erysipelas, and all scaly eruptions of the skin, and beautifying the COMPLEXION.

M

NOT A FEW

Of the worst disorders that afflict mankind arise from the corruption that accumulates in the Blood. Of all the discoveries that have been made to purge it out, none can equal in effect HELMBOLD'S CONCENTRATED EXTRACT OF SARSAPARILLA. It cleanses and renovates the Blood, instills the vigor of health into the system, and purges out the humors which make disease. It stimulates the healthy functions of the body, and expels the disorders that grow and rankle in the Blood. Such a remedy, that could be relied on, has long been sought for, and now, for the first time, the public have one on which they can depend. Our space here does not admit of certificates to show its effects, but the trial of a single bottle will show to the sick that it has virtues surpassing anything they have ever taken.

B

Two tablespoonsful of the Extract of Sarsaparilla, added to a pint of water, is equal to the Lisbon Diet Drink, and one bottle is equal to a gallon of the Syrup of Sarsaparilla, or the decoction as usually made.

The above Extracts are prepared on purely scientific principles—in *Vacuo*—and embody the full strength of the ingredients entering into their composition. A ready and conclusive test will be a comparison of their properties with those set forth in the U. S. Dispensatory.

O

HOW TO USE THE REMEDIES.

In Diseases of the Blood, Humors on the Face, or any and every part of the body, use Extract of Sarsaparilla, applying to Pimples and all external Humors or Eruptions the Improved Rose Wash.

Use the Extract Buchu for all diseases requiring the aid of a diuretic, except those of the Urinary Organs, such as Gonorrhœa and Gleet; in these use the Extract Buchu, and inject with the Improved Rose Wash.

L

☞ THESE EXTRACTS HAVE BEEN ADMITTED TO USE IN THE UNITED STATES ARMY, and also are in very general use in all the STATE HOSPITALS AND PUBLIC INSTITUTIONS throughout the land, as well as in private practice, and are considered as invaluable remedies.

MEDICINE DELIVERED TO ANY ADDRESS.

Direct letters to—

HEMBOLD'S DRUG AND CHEMICAL WAREHOUSE,

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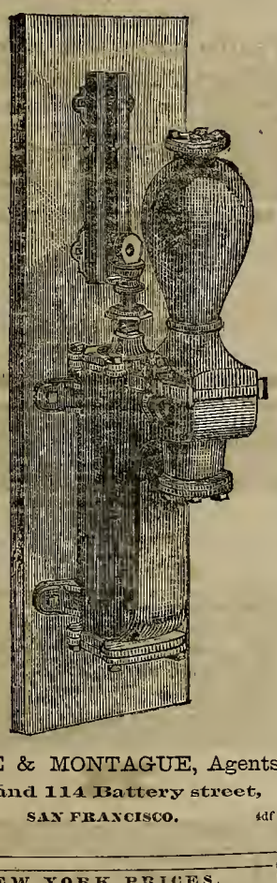

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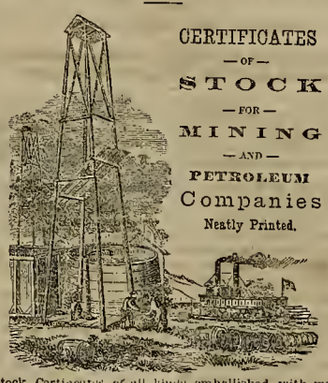

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[Removed from Oregon street, between Front and Davis.]

[From the Mining and Scientific Press, Thursday Aug. 24th.]

NEW ENGLAND KITCHEN.—Last evening a gayer spectacle was presented in this institution, with a larger number of performers to take part, and a more crowded audience to witness it, than has yet occurred in the kitchen. There were no less than forty ladies and gentlemen on the stage at one time, two-thirds of whom were ladies, representing, as the "chiv." would say, "our first families," and gentlemen representing the bar, judiciary, medical, mercantile, mechanic, and several other professions. A spirit of emulation seems to have been created, which is leading to an extravagant display of dress. The apparel of both male and female actors was grand and costly. The ladies were "furbelowed," belaced, bedizzened, powdered, painted, frilled, muffled, and otherwise "rigged out" in forms as various as the customs of at least three centuries in the sliding scale of the past ages would admit. The gentlemen had evidently been ransacking among the wardrobes of the theatricals, and depleting the shelves of M'lle Terme, to obtain costumes for their various parts. Among the characters of the *dramatis personæ* were counts, marquises, knights, barons, bishops, barristers, Spanish Dons, hidalgoes, parsons, pedagogues, gentlemen and sailors. "Big wigs," puffed wigs, and queued wigs flourished in all the splendor of gay ribbons and powder. Gen. Lafayette was personated, and other historical characters, whose titles, notwithstanding diligent inquiry, we were unable to ascertain. Jonathan was in an entirely new character—that of a minister, or curate, or some such respected personage, and had furbished up his wits, and summoned to his aid all the courtly graces of a Chesterfield or Count D'Orsay. He was the cynosure of all eyes—the focal point of attraction—around whom the ladies gathered, and to whom the audience looked for the utterance of wise saws and sparkling sallies. Jonathan was not only like Barkis "willin'," but also like Brutus, an orator and eloquent. The kitchen stage produced no performer that could rival him. Zeke was in a new wig. He wore a cocked hat, tight and velvet breeches, shoes with buckles, a powdered wig with a long queue, breeches of plush, a grey whisker that enveloped most of his face, and looked the courtier for all the world, as he intended to. But Zeke was lame, and consequently flagged in the acting department. Positively, the inmates of the kitchen are getting into the "heavy" line. The next thing we shall look for will be the regular play.

MUSICAL.—Mr. Willis informs us that on Saturday night, at half past nine, Mr. Kendall, the justly celebrated clarionet player, will favor the visitors of the Fair with a choice solo, which will contain the "Last Rose of Summer." The audience will confer a great kindness if they will keep perfectly quiet during this solo, as the Pavilion is so large that the soft passages of music cannot be heard when people are moving and talking. There will be a number of beautiful selections from operas, also. Mr. Willis deserves credit for his energy in trying to make his music one of the attractions of the Fair.

A SHOCK.—The immense leather belt used on the splendid steam engine from the Union foundry to propel the machinery at the pavilion, broke and slipped from its drum last night, falling to the floor with a crash. The room was filled with ladies and gentleman at the time whose nerves sustained a severe shock, succeeded by a grand scamper. There was a good deal of interest and inquiry for a few moments to know "what was the matter." When the facts were ascertained, and nobody found to be hurt, engineers went quietly to work, repaired the band, and soon had the machinery again in running order.

ACCIDENT.—A letter from superintendent T. G. Duff, of the Paragon Petroleum company, Mattole district, Humboldt county, states that in erecting the derrick for boring apparatus, a flaw in the timber gave way and precipitated one of the workmen down a distance of 40 feet. Fortunately he was not killed, although it is feared he is internally injured. But for this accident, boring would have been commenced on the claim on the 15th. The delay will probably be but for a few days.

RECEIPTS OF FAIR.—The receipts of the Fair up to and including Wednesday evening, were $18,128.

Mining Notices--Continued.

☞ *New Mining Advertisements to be found on another page.*☜

Baltimore Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 16th, 1865, at 10 A. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Bolinas Petroleum Co., Bolinas Township, Marin county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of August, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the 16th day of August, 1865, in United States gold coin, to the Secretary, 611 Clay street, Room 8, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 2d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. L. KIRBY, Secretary.

Office, 611 Clay street, San Francisco. au19

Chloride Ledge Gold and Silver Mining Company. Location of Mine: Blue Mountain District, Calaveras county, California.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 11th day of July, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Boothby, W L	bal due on	2	40	$25 00
Crowell, G E		14	20	20 00
Hayden, John		7	20	20 00
Reynolds, R T	bal due on	3	30	15 00
Schultze, R	bal due on	0	50	20 00
Williams, Franklin		27	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 11th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the auction salesroom of Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on the 21 day of September, 1865, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

R. H. SMITH, Secretary.

Office, No. 606 Montgomery street, San Francisco. au19

Camargo (Eclipse) Gold and Silver Mining Company, Reese River Mining District, Lander county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 17th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allen, H H	46	9	$45 00
Bradley, H W	14	9	45 00
Gutter, H F	83	45	225 00
Chevers, W H	47	6	30 00
Camp, Jas	72	5	25 00
Brinkhouse, J A	4	6	30 00
Drinkhouse, J A	6	3	15 00
Dall, John H,	49	6	30 00
Binkelspiel, L	51	3	15 00
Francis, B B	62	6	30 00
Greene, S H	69	9	45 00
Heath, R W	68	11	55 00
Leppien, F	17	3	15 00
Leppien, F	84	6	30 00
Lauder, P C	18	6	30 00
Lander, P C	69	6	30 00
Lindenberger, T E	21	3	15 00
Sharp, W H	61	6	30 00
Turner, A K	50	3	15 00
Williams, J J	40	3	15 00
Wightman, Jno	57	6	30 00

And in accordance with law and an order of the Board of Trustees, made on the 17th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 6th day of September, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT Secretary.

Office, 402 Front street, San Francisco. au19-3w

Emilia Mining Company, State of Guerrero, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of August, 1865, an assessment of twenty-five cents per share was levied upon the assessable stock of said company, payable on the 17th day of August, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, No. 55 Montgomery Block, in the city and county of San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, southeast corner of Montgomery and Washington streets. Office hours, 10 A. M. to 3 P. M.

San Francisco, August 16, 1865. au19

Eagle Quartz Mining Company, Amador County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 29th day of July 1865, an assessment of seventy-five (75) cents per share was levied upon the capital stock of said Company, payable on the 31st day of July, 1865, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of September, 1865, will be advertised on that day as delinquent, and unless paymant shall be made before, will be sold on Friday, the 22d day of September, 1865, to pay the delinquent assessment, together with costs of adverilising and exponses of the sale. By order of the Board of Trustees.

G. PARDOW, Secretary.

Office, 15 Montgomery Block, San Francisco, au5

El Dorado Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 16th, 1865, at 2 P. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Governor Nye Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Thursday, September 7th, 1865, at 10 o'clock A. M. of said day.

au12-4w I. S. BROWN, Secretary.

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on September 17th (Sunday)—changed to Monday, September 18th, 1865, at 2 P. M. of said day.

au12 4w W. D. ROOT, Secretary.

George Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent, upon the following described Stock, on account of Assessment levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allred, W C	21	15	$15 00
Allred, W C	22 23 25 26 27 10 ea	50	50
Allred, W C	not issued	44¾	44 75
Adams, J S	240	5	5
Beard, C M	not issued	1	1
Berry, H	not issued	5	5
Booker, W Lane	212	10	10
Botts, John	246	1	1
Baily, R	234	1	1
Boggs, G W	not issued	6	6
Christianson, Phil	166	5	6
Christianson, Phil	167	0	9
Christianson, Phil	168	10	10
Christianson, Phil	20	15	15
Cornwell, J F	40 41 42-10 ea	30	30
Cornwell, J F	43	9½	9 50
Curtis, E B	250	10	10
Curtis, E B	not issued	1	1
Capell, B	201	6½	5 50
Coulter, Samuel	271	10	10
Christianson, O & B	not issued	2¾	2 33
Douk, David	not issued	1	1
De Graff, Wm	70 71 10 ea	20	20
Davidson, Dan'l	not issued	14	14
Dement, David	220	10	10
Dement, David	221 222 5 ea	10	10
Davidson, Wm	not issued	1	1
Egan, E D	not issued	2	2
Ellsworth, O F	not issued	1	1
Francis, J H	204	10	10
Francis, J H	157 207 257-5 ea	15	15
Foster, Howard	104	5	5
Gullickson, L	87	7½	7 50
Griffith, W P	226	10	10
Griffith, W P	227 228 5 ea	10	10
Graham, T B	not issued	1	1
Grigsby, A F	215	6	6
Gilbert, S W	264	10	10
Gilbert, S W	265	5	5
Hastings, D L	not issued	23¼	23 50
Hawkins, Mary	not issued	19¾	19 67
Hill, V R	not issued	14½	14 50
Hayward, C G	122	5	5
Hammet, Ed W	318	10	10
Harmon, Wm	289	6	5
Ingalls, Miles	262	4	4
Ingalls, Miles	263	5	5
Isbell, J C	307	10	10
Johnson, Armon	not issued	6	6
Johnson, Andrew	272	0½	9 50
Jon s, Wm	223 285-10 ea	20	20
Jones, Wm	224 225 273 274-5 ea	20	20
Justice, J B	306	5	5
Knight, T	not issued	¾	50
Kleipsig, J C E	91	4	4
Keicheval, S A	303	10	10
Larson, C	15	5	5
Lee, O N	not issued	9¾	9 67
Love, Alfred	not issued	13	13
Lewis, F R	not issued	1	1
Lindau, Arnold	192	5	5
Lachman, Louis	53	10	10
Marshall, J C	30 not issued-10 ea	20	20
Marshall, J C	31	6	6
Mead, James A	33	10	10
McCorkle, King	74	10	10
McLea, Donald	not issued	1	1
Morrison, James	144	5	5
Mcklenberg, J	165	5	5
Mason, Chas	211	5	5
Miller, John	254	5	5
Marks, M	286	5	6
McGovern, P H	300 305-5 ea	10	10
McCuen, J A	304	10	10
Mudgett, John	121 321-5 ea	10	10
Pearson, J N	261 114 115 163-5 ea	20	20
Pearson, J N	123	10	10
Pearson, J N	120	15	15
Palache, E	97 215-5 ea	10	10
Palache, E	284	10	10
Steveos, Geo	83	15	15
Stevens, Geo	217	5	5
Squarza, V	107	5	5
Sloan, C	not issued	24½	24 25
Smith, John	183	13¾	13 67
Swinneston, B E	not issued	1	1
Senter, Riley	283	20	20
Trapp, A	153	4¼	4 25
Tyther, Richard	266	2	2
Vick, J	296	10	10
Wallace, P R	not issued	1	1
Whitton, C J	76	10	10
Wines, Chas B	120	6	5
Whitton, Green	126 127-5 ea	10	10
Winnie, Matt	not issued	9½	9 50
Winnie, J P	188	10	10
Winnie, J P	189	8	8
Winnie, J P	190	2	2
Winnie, Mrs E J	186 187-5 ea	10	10
Whitby, Wm	266	6	6
Williamson, John	231		6
White, J E	236	6	5
Wakefee, C H	not issued	3	3
Walsh, Martin	290	6	5
Walsh, Martin	291	4¼	4 60
Whitton, Wm H	339	40	40
Whitton, Wm H	332 333 334 5 ea	15	15
Whitton, Wm H	25 330 331-10 ea	30	30
Whitton, Wm H	78	12	12
Whitton, Wm H	not issued	15¾	15 33

And in accordance with law, and an order of the Board of Trustees, made on the 10th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction at the salesroom of Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, on the 26th day of August, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.

Office, 410 Montgomery street, San Francisco. Aug 12

Good Hope Gold and Silver Mining Company, Alpine District, Alpine County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Oscar McDowell	62	5	$2 50
E S Denison	339	5	2 50
M Weil	190	10	6 00
Geo Lowe	1..2	10	5 00
Peter Boyle	124	10	5 00
John Boyle	147	15	7 50
John Boyle	203	20	10 00
Jas F Boyle	148	10	5 00
Charles Dudley	170	5	2 50
E Ganoung	171	5	2 50
M T Groenveld	193	5	2 50
S Kimmel	202	5	2 50
Mrs A L Marsden	215	5	2 50
W Burright	209	10	5 00
J Nelson	259	5	2 50
J R Cook	264	10	5 00
L E Chevalier	277	5	2 50
C P Goff	286	10	5 00
C P Goff	287	5	2 50
W H French	289	20	10 00
W H French	291	5	2 50
C Malherba	298	3	1 50
W Prusser	303	6	2 50
H J Olds	330	5	2 50
Henry Weinrich	329	5	2 50
Chas W McFarland	335	5	2 50
J Q Smith	205	5	2 50

And in accordance with law and an order of the Board of Trustees, made on the 10th day of July, 1865, so many shares of the parcel of said Stock as may be necessary, will be sold at public auction at the Office of the Company, No. 526 Montgomery street, San Francisco, on the 26th day of August, 1865, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

PRESTON MORRIS, Secretary.

Office, 626 Montgomery street, San Francisco. ag12

Imperatrice Eugenie Gold and Silver Mining Company—Location of Works: Blue Mountain Mining District, County of Calaveras, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 1st day of August, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 804 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 2d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 19th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

A. KOENIG, Secretary.

Office, 804 Montgomery street, San Francisco au5

Illinois Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 10th, 1865, at 10 A. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Jewett Gold and Silver Mining Company, Gold Hill, Storey county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 19th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Wm Fishell	18	60	$60 00
Joseph Napthaly	74	25	25 00
Joseph Napthaly	75	25	25 00
Joseph Napthaly	76	50	50 00
Joseph Napthaly	77	100	100 00
David Spence	94	2	2 00
J B Peirce	104	6	6 00

And in accordance with law, and an order of the Board of Trustees, made on the 19th day of July, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Maurice Doro & Co., at 627 Montgomery street, San Francisco, on Saturday, the 21 day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon together with costs of advertising and expenses of sale.

G. M. BURNHAM, Secretary pro tem.

Office, 509 Clay street, San Francisco. au10 3w

Kimblin Raviae Company, Sierra County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of August, 1865, an assessment of twenty-five dollars ($25) per share was levied upon the capital stock of said Company, payable on the 19th day of August, 1865, in United States gold and silver coin, to the Secretary, H. NIELSEN, 210 Front street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 2d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

H. NIELSEN, Secretary.

Office, 210 Front street, San Francisco. au19

Lancha Plana Copper Mining Company, Campo Seco District, Calaveras county, California.

The Annual Meeting of the stockholders of the above Company will be held on Wednesday, the 6th day of September, 1865, at 10 o'clock A. M., at the office of the Company, No. 326 Clay street, San Francisco.

au12 J. FULLER, Secretary.

Lord Byron Gold and Silver Mining Company, Devil's Gate District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of July, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 29th day of July, 1865 in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 26th day of August, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

H. B. CONGDON, Secretary.

Office, No. 620 Washington street (Room 5), San Francisco, California. jy29

Lady Franklin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of August, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the 21st day of August, 1865, in United States gold and silver coin to the Secretary, at his office, 305 Montgomery street, San Francisco, or to THOMAS PETERS, at the mine, at Silver Mountain, Cal

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 6th day of October, 1865, at the office of the Company, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, Rooms 5 and 6, San Francisco. au19

Leland Gold and Silver Mining Company.—Location of works: Mohave county, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of August, 1865, an assessment of 25 cents per share was levied upon the capital stock of said Company, payable on the 19th day of August, 1865, to the Secretary, at his office.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, October 2d, 1865, at 12 m'lock, M., to pay the delinquent assessment, together with costs of advertisment and expenses of the sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary.

Office, No. 302 Montgomery street, San Francisco. au19

Lady of the Lake Gold and Silver Mining Company—Location of Works: Mohave county, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 17th day of August, 1865, an Assessment of 75 cents per share was levied upon the Capital Stock of said Company, payable August 19th, 1865, to the Secretary, at his office.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 2d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary.

Office, 302 Montgomery street, San Francisco. au19

La Victoire Copper Mining Company—Office, No. 606 Merchant street, San Francisco.—Location of Works: Hunter's Valley, Mariposa county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Amy, V	226	2	6
Amy, V	282	5	15
Bachiller, L not issued	142	25	75
Bailly, A	299	20	60
Bailly, A	301	5	15
Bailly, A	304	10	30
Barrett, Joacpb	312	40	120
Bertrandias, Mrs F	313	50	150
Cael, B	161	375	1125
Cael, B	204	25	75
Cigogne, F	122	50	150
Cigogne, F	123	200	600
Combes, T	348	20	60
Combes, T	349	12	36
Combes, T	350	8	24
Don, Joseph	114	20	60
Huerne, P	227	50	150
Largader, V	70	10	30
Largader, V	71	10	30
Largader, V	72	10	30
Largader, V	73	10	30
Largader, V	74	10	30
Largader, V	351	20	60
Largador, V	352	20	60
Largader, V	353	20	60
Largador, v	354	20	60
Largader, V	355	20	60
Pinet, J	25	150	450
Pinet, J	26	100	300
Pinet, J	27	125	375
Pocher, J	197	5	15
Paris, Louise	234	10	30
Paris, Madame A	235	5	15
Paris, Madame A	236	20	60
Paris, Madame A	237	20	60
Paris, Madame A	238	20	60
Paris, Madame A	239	20	60
Paris, Madame A	240	20	60
Paris, Madame A	241	10	30
Paris, Madame A	242	10	30
Pioche, F I. A	306	50	150
Queirolo, Jas	217	17	51
Touchard, Gustave	189	25	75
Touchard, Gustave	193	25	75
Touchard, Gustave	194	25	75
Touchard, Gustave	221	10	30

And in accordance with law and an order of the Board of Trustees, made on the tenth day of July, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of Cobb & Sinton, auctioneers, No. 406 Montgomery street, San Francisco, California, on the twenty-eighth (28th) day of August, 1865, at the hour of twelve o'clock, noon, of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

G. FRANCIS PETRARCHI, Secretary.

au19-td Office, No. 606 Merchant st.

Mammoth Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 9th, 1865, at 2 P. M. of said day.

au12 4w J. WARREN CLARK, Secretary

Napa Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 12th, 1865, at 10 A M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Nevada Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of August, 1865, an assessment of fifty cents per share, was levied upon the capital stock of said Company, payable on the 19th day of August, 1865, in United States gold and silver coin, to the Secretary, 602 Front street, San Francisco

Any stock upon which said Assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 6th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street (up stairs), San Francisco. au19

Paragon Petroleum Company, Mattole District, Humboldt county, State of California.

Notice is hereby given, that the Annual Meeting of the stockholders of the Paragon Petroleum company will be held at the office of the company, San Francisco, northwest corner of Washington and Sansome streets, on Saturday, September 2d, 1865, at 3½ o'clock, for the election of Trustees to serve during the ensuing year, and for the transaction of any other business which may properly come before the meeting.

au12 D. S. CUTTER, Secretary.

Silver Creek Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 19th, 1865, at 2 P. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Sierra Nevada Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Austin, H S	198	10	$5 50
Argell, John	not issued	5	3 75
Byam, H S	4	5	3 75
Bartlett, S A	19	5	3 75
Brown, Thomas	81	3	2 25
Brown, Thomas	82	12½	9 37
Barkly, C P	22	5	3 75
Bowen, Geo H	161	6	4 50
Bowen, Geo H	201	1	75
Coon, M R	104 97 98	10 ea	30 22 50
Cooper, Frank	2	5	3 75
Coon, H D	107	26⅔	20 00
Chaney, Edmund	67 70	10 ea	20 15 50
Chaney, Edmund	77	3	2 25
Carlson, Thomas	62 64 65		
	and not issued	10 ea	40 30 00
Carlson, Thomas	60	11	8 25
Curran, B	119	6	3 75
Christie, John	162 163 164	6 ea	18 13 50
Christianson, O & B	not issued		62 46 50
Cox, George	not issued		10 5 50
Chamberlain, E J	not issued		10 7 50
Dent & Hay	not issued		25 18 75
Delaitbo, J	193		8 6 00
Erickson, E H	86 87 & not iss'd	5ea	15 11 25
Erickson, E H	88		4½ 3 37
Eckle, A W	85		7 5 25
Earland, Nicholas	not issued		10 7 50
Gullickson, Louis	140		10 7 50
Hawkins, H J	9 10 11 12	25 ea	100 75 00
Halverson, Ole	20 21	25 ea	50 37 50
Halverson, Ole	not issued		150 112 50
Helyerson, John	30 31	15 ea	30 22 50
Helyerson, John	32 33 34 35		
	36 37 38 39	10 ea	80 00 00
Helyerson, John	not issued		6 3 75
Hargrave, E H	105		5 3 75
Hayward, C C	181		6 2 00
Hughes, S	183 184	185-3 ea	9 6 75
Hatch, F S	200		5 3 75
Johnson, John	28 40 41 42		
	43 44 45 46 47		
	48 49 50 51 52	25 ea	350 262 50
Johnson, John	53 54 55		
	56 57	10 ea	50 37 50
Johnson, Neils	111 112	25 ea	50 37 50
Johnson, Neils	110		20 11 00
Johnson, Neils	113 114 115		
	116 117	10 ea	50 37 50
Jones, J M	192		5 3 75
Kelsta, J	75		10 7 50
Kirk, Chas	23 24 25 26	20 ea	80 60 00
Kirk, Chas	106		5 3 75
Kirby, Z C	189		6 3 75
Lee, O N	72 73	10 ea	20 15 00
Lee, O N	not issued		13 9 75
Metz, Geo	144		5 1 50
Mott, Hiram	145 146 147 148		
	149 150 151 152 153	154 25 cn	250 187 50
Mauk & son	168		14 10 50
Mauk & Son	170 167 168	169-10 ea	40 30 00
Nelson, Ole	199		10 7 50
Olson, Peter	68 60	70-10 ea	30 22 50
Olson, Peter	71		11 8 25
Owens, J	57 and not issued	5 ea	10 7 50
Ogden, T	91	92-20 ea	40 30 06
Ogden, T	93	94 10 ea	20 15 00
Ogden, T	96 and not issued	15 ea	30 22 50
Olson, T	83		10 7 50
Olson, T	84		14 10 50
Palmer, S R	130 131 132	133-10 ea	40 30 00
Palmer, S R	134	135 5 ea	10 7 50
Pearson, Wm	188		10 7 50
Powers, T S	189		10 7 50
Rhodes, Alonzo	157		9 6 75
Ramich, Ed	165		15 11 25
Rankin & Metz	202		10 5 50
Seiverson, Thomas	58 59	60-10 ea	30 22 50
Seiverson, Thomas	not issued		21 15 75
Safford, H F	137 138	5 ea	10 7 50
Stoddard, Geo A	159		14¾ 11 00
Sutherland, John	329		10 7 50
Smith, James	180		5 3 75
Skinner, M B	182		10 7 50
Scott, H D	104		10 7 50
Souter, R	197		8 6 00
Thornton, O F	158		13 9 75
Thornton, O F	not issued		38 28 50
Tarbell, F W	63		10 7 50
Thompson, Thomas	136		5 3 75
Thompson, Philip	90	89-5 ea	10 7 50
Wilson, Robt	141		10 7 50
Wilson, Robt	142		9 6 75
Weeks, A R	171 172 173 174		
	175 176 177 178	25 ea	200 150 00
Weeks, A R	179		50 37 50
Wernor, F	101		6 3 75

And in accordance with law, and an order of the Board of Trustees, made on the 10th day of July, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of Edwards, Olney & Co., 626 Montgomery street, San Francisco, on the 26th day of August, 1865, at the hour of 2 o'clock, P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. WARREN CLARK, Secretary.

Office, No. 410 Montgomery street, San Francisco.

Sierra Nevada Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 12th, 1865, at 2 P M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Santa Cruz Petroleum Oil Works Company—Location: Santa Cruz County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of August, 1865, an assessment (No. 13) of thirty (30) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, H. WEGENER, 415 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. WEGENER, Secretary.

Office, 415 Montgomery street, San Francisco, Cal. au19

Santa Cruz Petroleum Oil Works Company—Location: Santa Cruz county, California.

The third Annual Meeting of the stockholders of the above Company will be held at their office, 415 Montgomery street, San Francisco, California, on Tuesday, the 26th day of September, 1865, at 8 o'clock P. M., for the purpose of electing Trustees to serve for the ensuing year and such other business as may properly come before it.

LEANDER RANSOM, President.

R. WEGENER, Secretary.

N. B.—All stockholders who cannot be present are earnestly requested to file their proxies with the Secretary. au12

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander County Nevada.

NOTICE.—There are delinquent on the following described stock, on account of assessment (No. 6) of fifty cents per share, levied on the 15th of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Allen, H H	178	4 1-10	2 04
Cutter, H F	90	35	17 50
Fassett, N C	53	2	1 00
Greene, Saml H	29	2	1 00
Hardy, Jas H	Bal 51	1½	3 75
Titus, A E	156	7	3 50
Work, Geo	Bal 69	6½	3 25

And in accordance with law and an order of the Board of Trustees, made July 15th, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at the office of the Company, No. 228 Front street, San Francisco, Cal., by Jones & Bendixen, auctioneers, on Wednesday, September 6th, 1865, at 3 o'clock P. M., to pay the delinquent assessment, together with costs of advertising and expenses of the sale.

E. J. DRINKHOUSE, Secretary.

Office, No. 228 Front street, San Francisco, Cal. au12

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 8th day of July, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Denio, W S	no cert. issued	100	$60 00
Rand, C W	no cert. issued	100	60 00
I S Church	no cert. issued	100	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 8th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, Cal., on the 2d day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

T. B. CUNNINGHAM, Secretary.

Office, 55 Montgomery Block, San Francisco. au19-3w

Smoky Valley Gold and Silver Mining Company, Smoky Valley District, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 7, levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Joseph Rydberg,	108	2	$ 3 00
G H Mullen	111	10	15 00
G H Mullen	112	10	15 00
James D Sears	113	10	15 00
James D Sears	114	10	15 00
James D Sears	115	10	15 00
James D Sears	116	10	15 00
James D Sears	117	10	15 00
C A Waller	128	5	7 50
S S Phillips	161	10	15 00
S S Phillips	190	2	3 00
James Hawley	not issued	30	45 00

And in accordance with law, and an order of the Board of Trustees, made on the 10th day of July, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at Maurice Dore & Co.'s, No. 327 Montgomery street, San Francisco, on Wednesday, 30th day of August, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. W. KNIGHT, Secretary.

Office, No. 36 Exchange Building, San Francisco. au12

St. Clair Consolidated Mining Company, Smoky Valley District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 31st day of July, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

AUGUST KUNAST, Secretary.

Office, 540 Washington Street, au5

Silver Prize Gold and Silver Mining Company, Silver Mountain District, Alpine county, California

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Wednesday, September 20th, 1865, at 2 P. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Scott Mining and Exploring Company, Humboldt county, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of August, 1865, an assessment of eighty (80) cents per share was levied upon the capital stock of said company, payable immediately, in United States coin, to the Secretary, at the office of Irvine & Co., No. 224 Front street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 9th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

V. B. POST, Secretary.

Office, No. 224 Front street. au12

Tip Top Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Monday, September 18th, 1865, at 12 M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Office of the United States Gold and Silver Mining Company, San Francisco, Cal.—Location of Mines: In Santa Fe and Ravenswood Mining Districts, Lander county, Nevada.

Notice is hereby given, that in accordance with a resolution of the Board of Trustees of the above named Company, passed on Wednesday, the fifth day of July, 1865, and in accordance with the by-laws of said Company, a meeting of the stockholders of the above named Company will be held at the office of the Company, No. 605 Clay street, in this city, on Thursday, the tenth day of August next, at 7½ o'clock P. M., for the purpose of authorizing and empowering the Trustees of said Company to sell on or more of the mines belonging to the said United States Gold and Silver Mining Company, and for the purpose of changing the by-laws of the same, and for the transaction of any and all business that may legally come before the meeting. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

San Francisco, July 5, 1865. jy8 5w

The above meeting is hereby adjourned to the 24th inst., at the same hour and 540 Clay street. By order of the Board of Trustees.

au 12 J. T. PENNELL, Secretary pro tem.

This above meeting is hereby adjourned to the 4th day of September, at the same hour, and 540 Clay street. By order of the Board of Trustees.

au26 J. T. PENNELL, Secretary pro tem.

Union Copper Mining Co. No. 2, Ledge or Claim situated in Copper Canon District, county of Calaveras, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of August, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in gold coin of the United States of America, to the Secretary, at the office of the Company, California street, in the city of San Francisco.

Any stock upon which said assessment shall remain unpaid on the 5th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 23d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

OVE. TOUCHARD, Secretary.

Office, 416 California street.

San Francisco, August 3, 1865. au12

Vulcan Mining Company, Santa Fe Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of August, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner of Clay and Front street, San Francisco, Cal. au19

Wisconsin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on September 17th (Sunday)—changed to Monday, September 18th, 1865, at 10 A. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Whitton Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 5th, 1865, at 2 P. M of said day.

au12-4w J. WARREN CLARK, Secretary.

Wide West Gold and Silver Mining Company, Silver Mountain District Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tbursday, September 7th, 1865, at 2 P. M. of said day.

au12-4w I. S. BROWN, Secretary.

PERPETUITY OF THE AMERICAN GOVERNMENT.—The history of the other Republics bears no parallel with ours. Their destructive expansion gives no warning admonition in the American horoscope. Panting caravans and slow-marching columns are not here required for the government of distant provinces. as they were in the era of Cæsar, or even when Napoleon drew his maps of conquest in the shadows of the Pyramids. Steeds feeling no weariness leap along parallels of iron, and couriers animated by the lightning, have taken the place of the sweating "ships of the desert' and the swift runner who carried the proclamation of Alexander to Cyrus. A tumult in Athens or a conspiracy in Rome now disturbs a thousand iron nerves, and arms a continent.

MINING LAWS AND FORMS.

Third Edition revised and enlarged.

Compiled by H. B. CONGDON.

THIS Edition contains all the laws of the *STATE OF CALIFORNIA* and *NEVADA TERRITORY*, relative to Mining Corporations together with the Mining Ordinances of Mexico, complete; Digest of Decisions of the Supreme Court; Forms etc. 16 mo. flexible cloth, 192 pp. $2.50.

Published by H. H. BANCROFT & CO.

"Say, why should man for thirst be given
If not for wine bestowed by Heaven
To quench such drought as mine?
Without it, I'm a fish on land,
A barren heap of parching sand—
Then give me joyous wine."—*Trinklied.*

Delicacy of flavor, exhilaration without intoxication, and every other desirable property belonging to the rightly fermented Juice of the Grape, are to be found in the "Gerke Wine," from the celebrated Bosquejo Vineyard, Tehama county.

There is no wine produced in California that can bear comparison with this, and it would be difficult to find a European wine, of the same class, that can surpass it.

The vintage of 1862 is now offered for sale, in quantities to suit, by the Agent of the vineyard,

A. S. LOWNDES,

Basement of the New York Hotel, southwest corner Battery and Commercial streets, San Francisco. 20v10-qy

OIL WELL BORING.

J. SEVENOAKS,

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For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1229 San Francisco. 2v11

PARAGON PETROLEUM COMPANY.

Incorporated June 2, 1865,

Under the Laws of the State of California.

CAPITAL STOCK,

$600,000.

NO. SHARES.....6,000

Par Value.....$100

OFFICERS:

President.....ROBERT KIRK

Treasurer.....WM. H. TOBEY

Secretary.....D. S. CUTTER

TRUSTEES:

ROBERT KIRK, T. G. DUFF, WM. H. TOBEY.

OFFICE:

At WM. H. TOBEY & CO.'S Petroleum Agency, Room No. 28 Government House, corner of Sansome and Washington streets, SAN FRANCISCO.

The claims of this Company consist of ONE HUNDRED AND SIXTY (160) ACRES of oil land, favorably located on the North Fork of the Mattole river, adjoining the grounds of the Union Mattole Company, Mattole District, Humboldt county, California. The Company are now actively engaged in the development of the claims.

KELLOG CREEK PETROLEUM AND MINING COMPANY.

INCORPORATED JULY 11TH, 1865,

Under the Laws of the State of California.

NO. SHARES.....10,000

Par Value.....$50 00

W. F. BRANDRETH.....President

J. M. BUFFINGTON.....Secretary and Treasurer

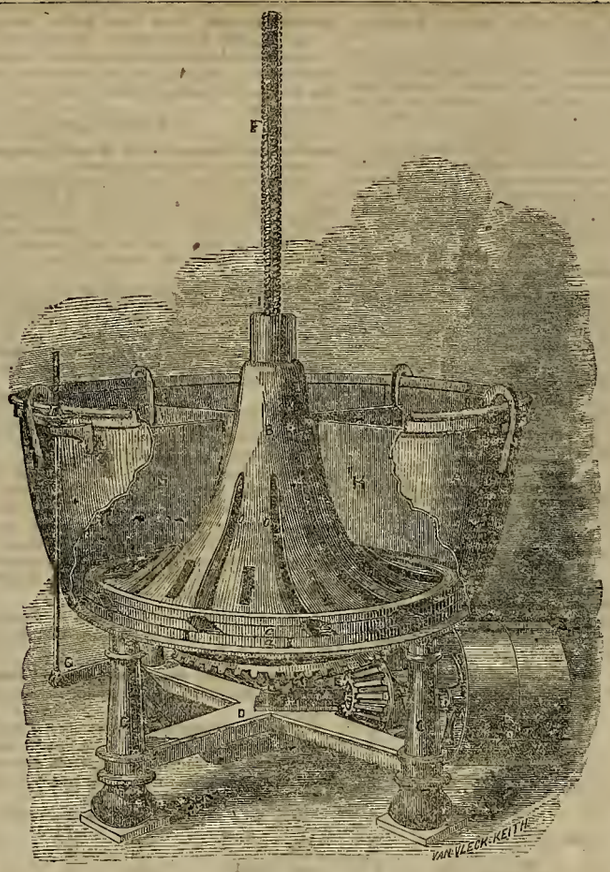
OFFICE—Room No. 10 Government House, corner of Sansome and Washington Sts., San Francisco.

The claims of this Company consists of SIX HUNDRED AND FORTY (640) ACRES, situated on Kellog Creek, in the Marsh Creek Mining District, Contra Costa county, Cal.

One thousand (1,000) shares of the contingent fund is offered at the low price of ONE ($1.00) DOLLAR per share, full paid, all the stock being unassessable. All who wish to purchase, or make any enquiry concerning the Company, will please call on the Secretary,

J. M. BUFFINGTON,

2v11 Corner of Sansome and Washington streets.



THE EXCELSIOR GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity, "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

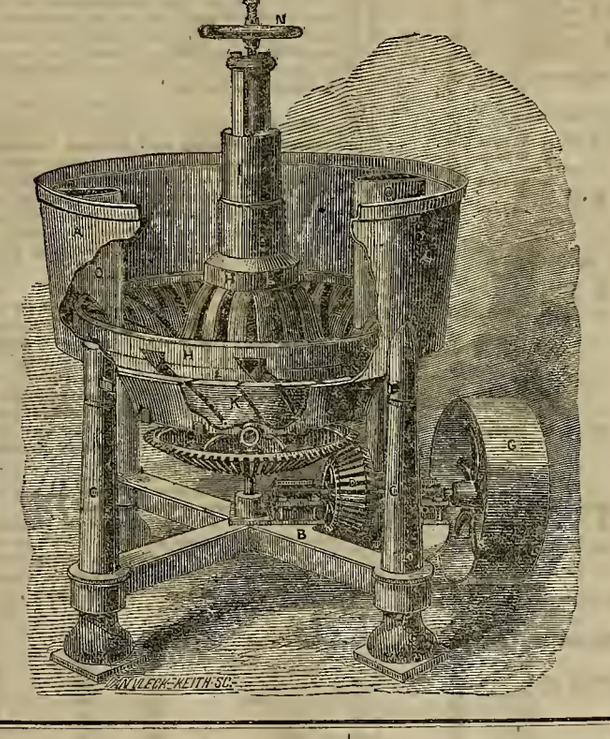
Union Iron Works and Golden State Iron Works.

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.



THE WHEELER & RANDALL Grinder and Amalgamator.

In the engraving herewith exhibited, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Plates.

The attention of the Public is respectfully called to these facts:

1st. That the Mechanical work accomplished by differently formed grinding plutes, having the same diameter, weight, hardness, and revolving at the same velocity, is as follows, to wit:

The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory-formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

2d. That as a whole, the Wheeler & Randall Grinder and Amalgamator is one of the most simple, compact, substantial, convenient and efficient pans in use.

☞ Patent applied for.

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UNION IRON WORKS..... "
MINERS' FOUNDRY..... "
SAN FRANCISCO FOUNDRY..... "
PRESCOTT & SCHEIDEL.....Marysville.
OREGON IRON WORKS.....Portland, Oregon.

WHEELER & RANDALL, Inventors.

SAN FRANCISCO, JUNE 13, 1865.

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San Francisco, March 16, 1865. 11v10-tf

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WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

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SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSIT ON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Componnd For Sale

That I have used with complete success in every instance, and without delaying the running of machinery, or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street, above First (opposite the Oriental Hotel), San Francisco.

23v10

Agent Wanted.

A good Canvassing Agent can secure permanent and remunerative employment by calling at the office of the MINING AND SCIENTIFIC PRESS, 505 Clay street.

DEWEY & CO.,
Publishers and Job Printers,
Office Mining and Scientific Press, San Francisco.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible

HATS, HATS.

The Largest Assortment
—OF—
HATS AND CAPS
—IS AT—
Meussdorffer's Hat Manufactory,
635 and 637 Commercial Street,
Between Montgomery and Kearny,
SAN FRANCISCO,
WHICH HE OFFERS FOR SALE
WHOLESALE AND RETAIL.

NEW DISCOVERY

FOR DESULPHURIZING AND DECOMPOSING
METALLIFEROUS ORES,
—SUCH AS—
Auriferous Sulphurets, Arsenites or Antimonial Telluric, Gold and Silver Ores.

By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using it now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by

DANIEL ROSS,

Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me

EDWARD ARNOLD,
Inventor and Patentee.

Monitor, Alpine county, Cal.
W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11

TEETH

Extracting Without Pain.

Drs. Whitcomb & Dyer,
DENTISTS,
[Successors to W. H. Irwin.]
No. 205 Third Street, near Howard,
SAN FRANCISCO.

A German Mining Engineer,

LATELY FROM THE EAST,

Desires a Place in a Mine, Assay Office, or Chemical Laboratory.

Address O. H., office of this paper. 4v11-1m

Machinery.

ATTENTION, MINERS!

LINSCOTT'S PATENT
CHAMBER DRILL.

Great Improving in Blasting.

W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.

D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ¾ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

HANSCOM'S CRUSHERS,

Made in sizes suitable for Breaking Quartz for Batteries; Rock for macadamizing or concrete; Copper Ore for sacking, sampling, or concentrating; also, for crushing Quartz for Arastras and Grinders. The small sizes make a most efficient Crusher for Prospectors, and are arranged to be run by Hand, Horse, Water or Steam Power. For further information address W. W. HANSCOM.

1 Golden State Iron Works, San Francisco.

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th. Illustrated in the Mining and Scientific Press, April 9th, 864.] HEPBURN & PETERSON.
nov8 3m*

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fancher's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Cascadile Quartz Crusher; his Pulverizer; and his Improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

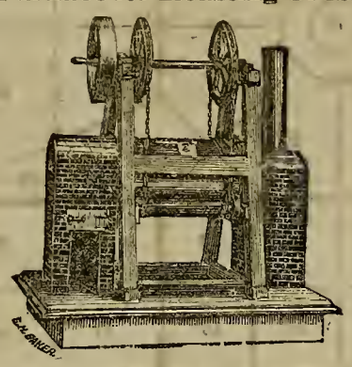
B. Fancher and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast, amalgamate, assort, calculate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works. No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. B. FANCHER, Engineer,

24v9

WM. BRUCKNER'S
Furnace for Roasting Ores.



Now in Operation at 416 Market street.

This Furnace, which is portable, and can be carried on muleback, underrakes to roast without employing any labor whatever for the operation of stirring, which is accomplished by machinery that may be driven by steam or any other motor. It consists of an iron cylinder, which, being suspended by chains, in rotating raises and stirs the ore, by an internal apparatus, quicker and more perfectly than can be done in any other furnace hitherto known in metallurgy. It can be applied to any kind of ore, and the rapidity and perfectedness of its operation, the great saving in fuel, and the entire saving of the labor usually required for stirring the ore, together with the small cost of constructing it, renders this furnace a most

Economical and Practical Invention.

The Furnace may be had of two sizes—one being nine feet in length and holding fourteen hundred pounds, and the other six feet in length, and holding eight hundred pounds. One horse power is required to drive the machinery of the larger sized furnace, and three-fourths of a horse-power for the smaller size. Parties wishing to erect such furnaces will please communicate to

W. BRUCKNER,
5v10 No. 416 Market street, San Francisco.

BLAKE'S
QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA,
WASHOE,
ENGLAND, FRANCE,
—AND—
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned.

Address,
BLAKE & TYLER,
Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.
4v10

VARNEY'S
PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setters made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setters for themselves, at the PACIFIC FOUNDRY,
1v1 San Francisco.

THE HAMMER QUARTZ MILL.

[PATENT APPLIED FOR.]

This Machine is now complete and ready for sale. In constructing it, our aim has been to produce a light, cheap and economical Crusher—one adapted to milling on a small as well as on a large scale.

The elementary principle on which it operates is that of the stamp—the only one really reliable and economical.

But the stamp has many serious disadvantages, among which are its great weight and small velocity; the great power required to run it; difficulty in feeding properly; imperfect discharge, and the necessity of crushing wet, or the annoyance from dust in crushing dry.

All these difficulties are obviated in our machine, and the percussive blow of the stamp retained, with the further advantage of its being a drawing or grinding one.

We give to our hammers such absolute or relative weight and velocity as we choose—just such as to effect their purpose and no more—thus securing the qualities of the natural hammer blow.

The feed is self-adjusting and uniform, and as fast as the ore reaches the required degree of fineness (which depends upon the fineness of the screen or sieve used), it is instantly discharged, so that there is no packing of the ore under the hammers.

The mill crushes dry, with no more dust than that incident to feeding, which is trifling.

As the only support of the mortar is a single post set into the ground, the machine can be put in place at slight expense.

The size now being built weighs about 1,800 pounds complete; the heaviest piece not weighing over 275 pounds. It is driven by half a horse-power, and crushes from three to ten tons per day of twenty-four hours per day, according to the character of the rock and the fineness to which it is reduced.

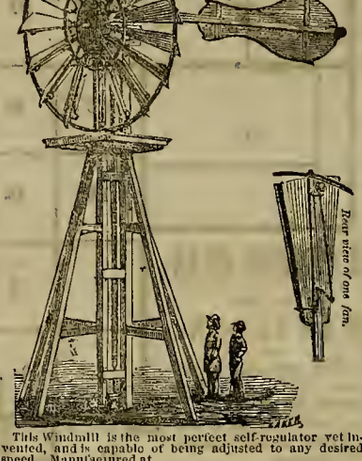
PRICE,.....$800.

Larger ones will be furnished if desired.

We invite an inspection of the Mill now in operation adjoining the Foundry of DEVOE, DINSMORE & CO., on Fremont street, between Market and Mission, San Francisco.

Office, No. 11 Court Block, San Francisco, Cal.
21v10 RIX & LOGAN.

ATWOOD'S
Self-Regulating Windmill.



Rear view of one fan.

This Windmill is the most perfect self-regulator yet invented, and is capable of being adjusted to any desired speed. Manufactured at

222 Mission Street, North side, below Beale,
SAN FRANCISCO.

N. B.—We also manufacture DICKERSON'S SELF-REGULATING MILLS; also, Rotary and Stationary Mills of different styles and prices, varying from $50 to $500 each; also round and square Water Tanks made to order.

222 Mission street, below Beale. 5

HUNT'S
IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN

HORSE POWER
For Sawing Wood,
ALSO, THE
Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,

No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

HUNT'S PATENT
Circular Sweep Horse-Powers,

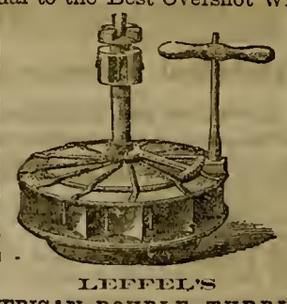
For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all completo to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,
7v10 28 Second street, San Francisco

Equal to the Best Overshot Wheel

POWER PLEDGED IN EXISTENCE.



LEFFEL'S
AMERICAN DOUBLE TURBINE.

The DOUBLE TURBINES, so long expected, have arrived at last, and orders can now be filled. We have a large supply of the different sizes, from 20 inches to 90¾. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

The above Wheel will be exhibited during the Fair of the Mechanics' Institute, where all may see it and hear its merits explained. This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 100 to 300 pounds will yield from 10 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to

LEFFEL & MYERS,
4v11-tf Care RICHARDS & MCCRORKEN, San Francisco.

TO QUARTZ MINERS.

Hinkle's Centrifugal Pulverizer and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUGAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steen, Nos. 37 & 39 Fremont street, between Market and Mission streets.

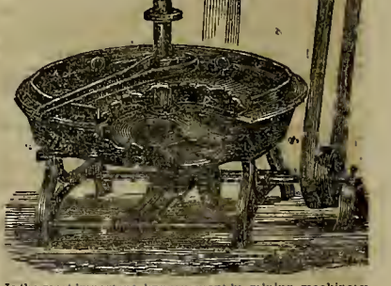
This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine, made entirely of Iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

Mr. Hanson, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 60 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to

PHILIP HINKLE,
At the Novelty Iron Works, Nos. 37 & 39 Fremont street.
15-1m

BAUX & GUIOD'S
Separator & Amalgamator



Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine Scientific Knowledge with Practical Experience, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jeffersonian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crall's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Heugh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,
Fremont street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8-3tf

McCOMB'S
CUMULATIVE POWER PRESS
AND
ARROW TIE.
E. C McCOMB, Agent.

No. 1 Government House, cor. Sansome and Washington sts.
23v10 3m

NOTICE.

The undersigned having purchased the EXCLUSIVE RIGHT in and for the State of California, for the

Manufacture and Sale of
WINHAM'S
PATENT HOSE COUPLING,

Hereby caution all parties against the manufacture or purchase of the above Hose Couplings, except through us, as any infringement will be prosecuted to the full extent the law.

PRESCOTT & SCHEIDEL,
Marysville Foundry
March 31st, 1865. 13v10-

☞Names of Exhibitors will be inserted in this column during the Fair, and in the Catalogue, for $1.50. Advertisiments or notices of those marked with an asterisk will be found in the DAILY FAIR PRESS.

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WITH THE LOCATION OF ARTICLES IN THE PAVILION.

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*Bigelow & Bro, General Insurance Agents, 505 Mont st	
*Butler & Bennett's Dental Chair, 653 Clay st	56
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China Ware, Fine Groceries, Plated Ware, Stoves, Tin Ware, Wire Work, etc	38, 44, 52, 53
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*California Homestead Association, J S Laux, Sec, 305 Mont.	
*California Powder Works, J F Lohse, Agt, 318 Cal st	
*Coffee, Risdon & Co, Gil Well Tools, Bush and Market st	
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*Field & Co, Wines, Brandies, etc, 422 California st	
*Firemans' Fund Ins Co, 236 Mont st	
*Gage & Bouton, Ladies Emporium of Fashion, 12 Mont st.	
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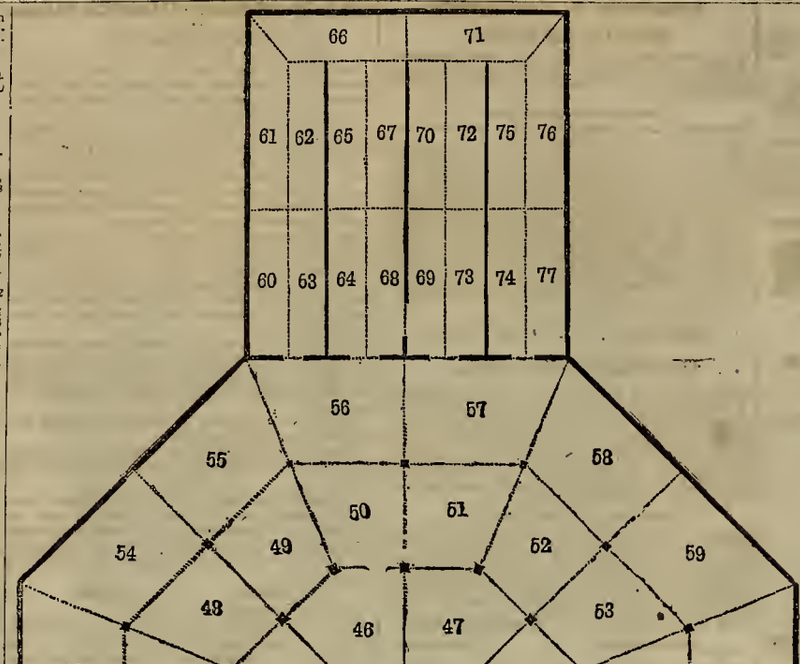
*Steen, E T, Novelty Iron Works, 39 and 40 Fremont, and 42 and 44 Beale sts	11
*Shuber, J. A., Furniture and Bedding, 850 Kearney st	
*Shew, Wm. Photographic Gallery, 421 and 423 Mont	60 61
*Sims, John R., Fire-Proof Doors and Shutters, Bank Vaults, etc., Oregon st, bet Front and Davis Wash and Jack	
*Sheffield & Patterson, Practical Saw Makers, cor Jackson and Battery	
Swain & Co, R A, Crockery and Glassware, San & Pine	53
*Schreiber, Furniture and Bedding, 406 Sansome st	
Telegraph Fire Alarm and Police	31
*Towne & Bacon, Excelsior Book and Job Printing Office, 536 Clay street	
*Tantlo & Co, Fancy and Dry Goods, 9 Mont st	2
*Tubbs & Co, S F, Cordage Manuf'y, 611 and 613 Front st	22
*Truworthy, F M, Stencil Plate Cutter, 321 Front st	74
*Thompson, I D, Wines and Liquors, 321 Mont st	21
*Traver & Bro., M. E Eureka Clothes Wringer	21
*Trumbull, Wm, Saddles, Harnesses, etc, NW cor Davis and Commercial sts	
*Trott, H J M, Carpets, Oil Cloths, etc, 618 Market st	
*Union Iron Works, H J Booth & Co, cor 1st and Mis st	25
*Van Vleck & Keith, Designers and Engravers, 611 Clay st.,	
*Vulcan Iron Works Co, Iron Founders, 1st, Nut and Fre	17
*Willis' Band (engaged for the season). Office, 131 Mont	28
*Whelan, Denis, Boots and Shoes, 17 Fourth st	
*Wolfe, James E, Architect, 409 Mont st	76
*Wilkins & Co, J M, Family Groceries, 23 and Natoma sts	
*Wood, Z, Architect, 410 Montgomery st	74
Weir, W G, Cabinet Furniture, 638 Market st	
*Ward & Son, S W H, Perfect Fitting Shirts, 323 Mont st	40
*Winter, Wm, Sign and Ornamental Painter, 805 Wash	69
*Winter, E, Artist, 605 Sacramento st	72
*Way, Daniel E, Pioneer Japanese Bazaar, 206 Montgomery	
*Whitcomb & Dyer, Dentists, 205 Third st	
*Wheeler & Wilson Sewing Machines, F L Tilliston, corner Montgomery and Sacramento sts	
*Wheeler & Randall, Excelsior Grinder and Amalgam'r	71



A GROUND PLAN

OF THE

PAVILION.

The engraving represents the space in the Grand Pavilion marked out and numbered into sections for conveuience of reference.

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I. A. WOODSON,

Attorney for P. WARNER, Adm'r of said Estate, 604 Merchant street.

San Francisco. Aug. 26, 1865. 8v11-4w

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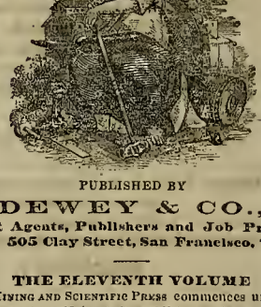

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Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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OBITUARY.—We are pained to announce the death of Mr. Edward Daniels, Impost Clerk in the Custom House, by the upsetting of the vehicle in which he was riding, about half a mile this side of the toll-gate on the Ocean House road, last Monday evening at about 7½ o'clock. Deceased was driving, accompanied by Mr. Weston, also a clerk in the Custom House, when they were precipitated down a bank about fifteen feet high, instantly causing his death by the breaking of his neck. Mr. Daniels was a native of Massachusetts, and leaves a wife and interesting little daughter in Northampton, with whom we sympathize, to mourn his loss. He has resided in this city about five years. He was a man of good business habits, and highly esteemed by those who knew him. His remains were followed to their resting-place from the house of Ira P. Rankin, Esq., of this city, by his friends and a large concourse of Master Masons, to which order he belonged and dearly loved, and we sincerely trust that he has gone to that place where all good Masons hope to at length arrive.

A NATION OF ALE DRINKERS.—Mr. Gladstone, the Chancellor of the Exchequer of England, in his late financial report, calculates that the regular weekly allowance of malt liquor to each adult male in that country is six hundred quarts—nearly two quarts a day. Two hundreds millions of dollars a year are expended for what Mr. Gladstone terms the "national drink;" and he adds with a sort of glowing satisfaction, that there are no signs of the taste for it dying out.

INGENIOUS WORKMANSHIP.—A child's dress is exhibited in the inclosure of the Florence Sewing Machine Company, at the Fair, which was made by a lady of this city on one of the Florence machines, entire. That is to say, no other needle but that employed by the machine, was used in making any of its stitches. It is a beautiful achievement of art and industry, which every lady should see.

ANOTHER WEEK OF THE FAIR.—We believe that it is now generally understood that the Fair will close on Saturday next.

THE BIG TREES OF CALAVERAS.

Among the curiosities at the Pavilion are several sections of the bark and wood of the big trees of Calaveras. The thickness of the bark in one of these sections is seventeen inches. In connection with the entry which contains these specimens are also exhibited some cones which have fallen from the tree, which are very small, not larger than a hen's egg; also, some of the seeds, a dried twig, and a small tree, some fifteen inches high, which has been produced from the seed.

It is now some twelve years since the attention of the scientific world was called to the existence of these mammoth productions of our California forests. This was the first cluster of large trees which was discovered. Since its discovery, the existence of several other groves of the same extraordinary growth have been made known to the world, which are said to rival in magnificence and grandeur even the Calaveras grove. We have at least four such groves, and it is thought that others may yet be discovered. It is said that a grove exists in Tuolumne county, at a locality very inconvenient of access, which is even finer than that of Calaveras; and it is quite a pleasant reflection to know that these wonders of the California mountains are not confined to any one spot, but that several grand companies of these forest giants exist, to neither of which the world has yet been able to furnish an equal.

According to Professor Brewer, of the Geological Survey, great numbers of these trees are found near the head of King's and Kern rivers, not in isolated groves, but scattered around promiscuously, at altitudes varying from 5,000 to 7,000 feet above the sea level. He found one tree, near Thomas' sawmill, forty feet in diameter—nearly twice that of the largest in the Calaveras grove, according to the measurement given below.

For several years after their discovery there was considerable difference of opinion among scientific men as to the true position which the tree occupies in the botanical system. Soon after its discovery, an English botanist, supposing it to be a new species, named it "*Wellingtonea Gigantea;*" which, however, a patriotic American proposed the more appropriate name, "*Washingtonea Gigantea.*" It was subsequently named "*Taxodium Gigantium,*" by Messrs. Kellogg & Behr, in a paper read before the California Academy of Natural Sciences, in May, 1855. In the succeeding August, Dr. Torrey, the distinguished American botanist, who recently paid a short visit to the Pacific coast, in a communication to *Silliman's American Journal of Science*, settled the matter to the satisfaction of the whole scientific world by placing it, where it undoubtedly belongs, in the same *genus* as the redwood—which was already known as the "*Sequoia*"—and this being a larger species than any previously known, was very properly called the "*Sequoia Gigantea.*"

The name having thus been definitely settled, it has fallen to the lot of our present scientific visitor, Dr. C. T. Jackson, of Boston, to furnish the first accurate and reliable measurements of the chief individuals of this gigantic collection of trees. The Doctor, it will be recollected, recently visited that vicinity in company with Joseph B. Meader, Esq., of Stockton. We now give, for the first time, to the public, the following extracts from his note-book, which were also read before the California Academy of Natural Sciences, in this city, on the 7th ultimo:

Measurements of the hight and circumference of the most noted of the "Big Trees" (Sequoia Gigantea), by Charles T. Jackson, M. D., and Mr. Joseph B. Meader, August 2d and 3d, 1865.

We were provided with a Sir H. Douglass reflecting semi-circle, a reflecting level, and a measuring tape, and by means of these instruments have made quite accurate measurements.

The horizontal point, or level, was first ascertained on each tree by means of the reflecting level, and the angle was measured to that point, and the difference of level was corrected for in each case. By means of the tape the base lines were determined, and the circumference of each tree at least six feet above the ground, or where the tree took its proper form, was measured. Sir H. Douglass' reflecting semi-circle is made so as to protract the angles, and it carries also a scale for measurement of the sides of the triangles protracted.

In several instances we repeated the measurements, with different bases, especially in those where too high an angle introduced the error of refraction of the glass of the mirrors.

Names of the Trees.	Hight in feet.	Circumf'e feet above the roots.
T. Starr King	363	50
General Scott	327	45
General Jackson	320	42
Two Sentinels (Front of hotel)	316	—
Salem Witch	310	—
Trinity	308	48
Mother of the Forest	305	63
Wm. C. Bryant	305	40
Henry W. Beecher	291	45
Granite State	286	50
General Washington	284	52
Abraham Lincoln	281	44
Bay State	280	48
Old Kentucky	277	45
Empire State	275	50
Andrew Johnson	273	32
Daniel Webster	270	40
Mother and Son	269	64
Edward Everett	265	46
Pride of the Forest	260	60
Vermont	259	41
John Torrey (nobis)	259	35
Arbor Vitæ Queen	258	31
Beauty of the Forest	258	—
Henry Clay	241	44

Asa Gray (nobis), nearly as high as the John Torrey.

We measured the following large pines near the hotel:

P. Englemanni, or yellow pine	232	27
Another	220	19
P. Lambertiana, or sugar pine	165	—

The big stump covered by the Stump House has a mean diameter of 23 feet 1½ inches, and its least possible age is 1,380 years, allowing only 10 annual rings per inch. The extremes are 10 and 60, and computing the mean 35 per inch, the tree will be 4,830 years old.

ORIGIN OF THE BONNET.—The first bonnet worn in England was brought from Italy in the reign of Queen Elizabeth, and its form was a compromise between the present Italian hat and French hood. The materials employed in constructing these head ornaments were crimson satin, elaborately embroidered, cloth of gold, and similar rich materials. The Leghorn hat, with perpendicular crown and wide brim standing out far around the face, was the first legitimate bonnet worn, and this appeared long after Queen Elizabeth's time. It was trimmed with artificial flowers and immense bows of ribbons. Our present neat and exquisitively delicate and tasteful head-covering is but a modification of this huge affair, which not very many years back was so universally worn and admired.

SINGULAR PETRIFACTION.

We have received from the editor of the Colusa *Sun*, a very singular petrifaction, recently found by Mr. Reed, in Bear Creek, Colusa county. The specimen is about the size of a man's clenched fist, and of very much such shape. At the extreme front thereof are the distinct remains of what were thought to have been iron nails, about six or eight penny in size. The petrifaction was once evidently a hard, close-grained piece of wood, and the question naturally asked, was, "Who drove those nails in that wood?"

Petrifaction itself is really but little understood. It is one of the secret, quiet operations of nature, that in the present state of human knowledge, can only be faintly explained. Its process is curious beyond parallel, and is of a nature similar to the physiological phenomena of the assimilation or conversion of nutriment into the fluid or solid substance of the animal body. It is universally conceded that the process of wood petrifaction is very slow; requiring ages for its consummation; yet authenticated cases of the total or partial petrifaction of the human body in a very short space of time, are quite common. Several occur to us as we write—one that of an elderly woman buried in Philadelphia in 1857. The grave was opened in May last, when her body was found completely petrified, and as perfect in form and appearance as when placed there, with the exception of the nose which, alone, was slightly decayed. It required the united strength of eight men to raise the body from the grave. When the grave was dug, a spring of water strongly impregnated with lime was struck, and flowed so freely that it was found necessary to bail it out before lowering the coffin. Hence the phenomena. The time which had elapsed had not been sufficient to at all affect the coffin. The body, however, from its more perishable nature, had yielded—as it is generally conceded that the tissue, whether wood or flesh, must decay to give place for the petrescent particles.

We have no doubt but that the petrifaction from Colusa, for such it really is, is of quite as ancient an origin as the numerous instances, and great masses of petrified wood so often found in nearly every portion of our mines. What appears to be nails is nothing but a deposition of iron, in the form of elongated crystals of sulphurets of iron. A close examination would appear to settle that matter beyond a doubt. We often hear of petrifactions being formed in a few weeks, or even days, in some springs of a peculiar mineral character containing large quantities of lime in solution. These petrifactions, however, are merely incrustations. The stoney matter having been newly formed over and around the wood, inclosing the same, as it were, in a closed case; but not displacing the woody fibre, as is done in a true petrifaction. Fleshy matter, under certain favorable circumstances, as in the instance above cited, may be petrified in a very short period of time, from the fact of its early decay, allowing a rapid displacement of its particles, and its entire conversion into calcareous matter, the only character which such rapid petrifactions assume.

Descriptive Catalogue

—OF THE—

INDUSTRIAL EXHIBITION

Of the Mechanics' Institute, 1865.

CONTINUED.

459 Mr. Bugbie, Folsom: three boxes Raisins, California growth.

These raisins are of Califoraia growth, and appear to be of a very excellent character. Mr. Bugbie is now making a business of putting up raisins. He considers the climate aad soil of California as well fitted for the production of the raisin grape as for those varieties best calculated for wine. In his laudable effort to introduce this important branch of domestic production, Mr. Bughie cannot fail to have the warmest sympathy of every Califoraian, and it is to be hoped that his efforts in this direction will be a pecuniary as well as physical success.

460 Baker & Hamilton, Sacramento: one Gang Plow, with seed sower and harrow attached; two steel Plows.

This machiae is a combination by which the ground is plowed, the grain sowed and subsequeatly covered, all at one operation, or by once passing the machine over the ground. The plows are three in number, aad so arranged as to be lowered or raised, or kept in any given position, by a conveaient cogwheel arrangement, directly under the control of the driver. It is said that over 100 of these machiaes are now is use in this State.

461 M. Price, San Francisco: one case Cutlery, California make.

462 Wilson & Evans, San Francisco: one case Guns and Sporting Articles.

463 A. J. Plate, San Francisco: one case Guns and Sporting Articles.

464 Charles Slotterbeck, San Francisco: one case, two Rifles and one Shot Gun.

465 Vallagia, San Francisco: one case containing six double barrel Shot Guns, one Rifle, and one pair extra Barrels.

466 B. Largoardi, San Francisco: one case Shot Guns and Sporting Articles.

467 A. Harrisou, San Francisco: one model Patent Chimney Top.

469 J. L. Chaee, San Francisco: one Straw and Hay Cutter.

The knives of this cutter are fixed longitudinally nround the circumference of solid cylinders—there being two of them—which are rotated by a crank and cog motiou, drawing the straw towards them, and cutting as fast as it draws.

470 Jacob Runyon, Sac. River: twelve varieties Pears; five varieties Apples.

473 C. C. Cooledge, San Francisco: twelve Ball and Socket Trusses, and two Washington Shoulder Braces.

The peculiarities of this truss consist in a hall and socket joint for supporting the pad, aud a movable arm, by which a single truss may be used as either a right or a left one. By a combination of the movements of the ball and socket and movable arm, any desirable angle may be obtained. These peculiarities will be fouad very important, and are well worth the attention of those interested in or conversant with such things. It is the invention of Bartlett & Butman, of Boston, patented about a year ago. They are being very generally introduced in the Eastern States. The shoulder braces are employed for strengthening and straightening the shoulders and keeping them in a proper position, at the same time answering the purpose of suspenders.

481 Samuel Brannan, San Francisco: five bottles Calistoga Wine.

482 Bath & Morrison, 118 Bush street, San Francisco: Butcher's Cart.

This is a neat and substantial piece of workmanship, executed by the exhibitor, in this city.

483 J. & C. Schrieber, San Francisco: Spring Mattrass; four Feather Pillows; two Pulu Pillows; one bale Pulu; one Bedstead.

These gentlemen have on exhibition a spiral spring bed, for which a patent was issned on the 25th of October, 1864. The peculiarity of the patent consists in the mode of tying the springs, the springs being tied near the centre downwards, making the bed firm and substantial, as well as elastic; from the centre up to the top of the spring, separately, ruas a cord which forms a brace to each spring, giving a softness which no other mode of adjusting can give. It is admitted by manufacturers and dealers, and others who have this new patent in use, to be superior to any spring-bed heretofore offered to the public. This exhibition is well worthy of examination by all those in want of a comfortable bed or other similar articles of furniture. The spring mattress mentioned above is a California invention, known as O. Fuller's improved method of bracing spiral springs. The exhibitor holds the right for this State.

485 Henry S. Smith, San Francisco: Dunbar's Steam Piston Packing.

This is a self-adjusting packing, so constructed as to require no springs or screws; is always steam-tight, acts with but little friction, and never becomes loose or leaky. It can be applied to any engine, old or new. This packing is now being extensively introduced on this coast. It is said that for cylinders which have become loose from wear, this packing is the best practical remedy.

486 Greenberg & Co., San Francisco: one bale white cotton Batting; one package white Cotton Waddling.

491 Brown & Batters, Oakland: nine Shoe Lasts, manufactured at the Pacific Last Factory.

These lasts were made at the Pacific Last Factory, at Oakland.

492 George W. Edwards, San Francisco: one Army Printing Press.

This is a small press, with a bed about six by eight inches in size, said to have been of the same pattern as those used by all our army corps commanders in their various campaigns during the late war of rebellion. The press is extremely simple and compact, requiring but very little weight of metal, and not at all liable to get out of order. The bed is made to move by a crank and cog-motion, forward and back, under a stationary cylinder, which revolves by its friction upon the frisket covering, giving an impression each time; the bed with the form passes under the cylinder, whether backward or forward. The tympan rises and falls automically, so that the pressman can turn the crank back and forth with one hand, and ink aud lay on and take off the sheets with the other.

493 Cameron, Whittier & Co., San Francisco: three boxes Glue; one bottle Neat's Foot Oil.

495 Union Carriage Factory, San Francisco: one Milk Wagon.

This wagon was built in San Francisco, by Messrs. Stein, Link & Schert, for the San Francisco Dairy. The body is beautifully finished, and the entire vehicle is a substantial piece of workmaaship.

496 J. E. Jorgensen, 28 Third street: one Air Tight Stove.

This stove, which is quite ornamental in its construction, was made at the manufactory of the exhibitor, No. 28 Third street, San Francisco.

497 Boyd, McAuliff & Co., 412 Pine street: two Parlor Doors, rosewood imitation and California laurel.

There are two parlor doors included in this entry. The one upon the left is made of common redwood, stained and grained to imitato rosewood. That upon the right is made of California laurel. The two panels are simply polished, without being stained or grained, showiag the natural grain and beauty of the wood. The frame work of the door is grained to imitate black walnut and mahogany. The mouldings are in imitation of rosewood. The beauty of the natural laurel cannot he excelled by any wood which grows. The imitatioas are almost faultless; the smoothness and polish of the whole is admirable, and reflects the highest credit upoa the artists.

500 Ben. E. Harris, 314 Jessie street, San Francisco: self-regulating Feed Box.

The self-regulating aad provender-saving feed box, for horses, it is claimed, produces a thorough mastication and digestion, resultiag in a saving of twenty-five per cent. in quantity of provender, with an increase in benefit of ten per cent. ia the condition of the system of the animal, when fed from this box.

501 Peter Lunay, San Francisco: one Steam Governor; one model Oscillating Engine.

503 W. H. Scoville & Co., San Francisco: four boxes Candles; one cake Acid Block.

One of the most important branches of domestic manufacture on the Pacific coast is the production of candles. Nearly one million of dollars are annually sent to the East for this indispensable article of consumption, which in most countries is confined to domestic use, but which here enters so largely into consumption for underground work in the mines. Nothing but the most indifferent article has hitherto been produced here, although several unsuccessful efforts have been made to produce a merchantable article of adamantine candles. It is believed, however, that Messrs. Scovillo & Co. have, at length succeeded in producing an article which fully comes up to the demand, and which can be manufactured at a price to compete successfully with the imported article. Adamantine candles are manufactured from tallow, first chemically prepared, and subsequently subjected to a powerful hydraulic pressure. In this condition the preparation is known as an "acid block," one of which is exhibited. These blocks are melted down and run into candles, to which the name adamantine is given from the peculiar hardness and ring, so different from the character and sound of ordinary tallow. The article now exhibited is pronounced, by judges, to be fully equal to the average, if not the best, of the imported article, and the enterprise should be met with the liberal encouragement which its importance demands. Dealers will do well to exame the samples on exhibition.

505 C. C. Keene, San Francisco: one case Musical Instruments.

508 H. J. Booth & Co., one Steam Engine, driving machinery at Mechanics' Fair.

Here we have the grandest and most magnificent piece of mechanism in the Exhibition—a 40-horse power engine with one cylinder, fourteen inches in diameter and 30-inch stroke, with Irving M. Scott and W. R. Eckart's self-adjusting cut-off regulator. The valves of the engine are worked from a drag crank shaft, instead of eccentrics, thereby allowing ease of access to all parts; simplicity of design; has less joints and less friction than eccentrics. The point of cut-off is variable from full to no steam, and is regulated according to the work the engine has to do, from the governor, thereby producing a great saving of fuel over other engines. In the construction of these engines *lightness* has been the thing aimed at, and strength has only been sought in the *design*, *construction* and *good* quality of the *material* used. The first engine of this kind was designed and constructed for driving the machinery of the Union Iron Works, which duty it has been performing with unlimited success for over a year, both as to expense of *repairs* and saving of *fuel*. This engine runs remarkably smooth, and attracts alike the admiration of the skilled engineer and the unpretending lover of science and art, by its powerful but silent and majestic movement.

511 Cameron, Kuenzle & Mills, San Francisco: one Album Stereoscope.

This is a new optical instrument, and is known as the "Mills' Album Stereoscope." It is a California invention, and one of much importance in connection with the elegant and useful art of photography. It is designed to accompany and render far more interesting and useful those elegant household treasures kaown as "Ladies' Photographic Albums." It consists of a plano-convex lens, a concave silver speculum, and a chromium; all arranged in a small box, turned out of solid rosewood or ivory, aad so combined as to neutralize the shadows cast by the rough surface of the card and give a flesh-like softness, tone and life appearance to the magnified picture, in place of the harsh, cadaverous and unnatural effect produced by the common magnifying lens or stereoscope. It is applicable equally to card pictures, ambrotypes and the new style of photographic miniatures on porcelain and ivory. In a *good picture*, the apparent transformation from a mere picture to the living person, with his full, clear, natural expressiou, is wonderful, and the effect is in exact proportion to the excellence of the original picture. It thus enables the owner to guard against accepting inferior likenesses from any class of operators.

513 N. S. Arnold, San Francisco: one Monitor Washing Machine.

This machine received a diploma at the last Fair of the Institute, as the best washing machiue on exhibition.

516 J. C. Trask: one Hay Press.

521 M. Keller, Los Angeles: four bales Tobacco; three Cotton Plants.

This tobacco was raised upon the ranch of Mr Keller, near Los Angeles, where he has a large crop growing. The cotton plants are from the same ranch. Mr. K. has 110 acres of cotton now growing, from which he expects to realize about 150 bales of 300 pounds each. The Legislature has offered a premium of $3,000 for the first 100 bales of cotton of 300 pounds each, which may be produced in this State. Several parties are competing for this premium, and among them is Mr. Keller.

524 Vulcan Foundry San Francisco: one Baux & Guiod's Separator and Amalgamator, California invention, manufactured at Vulcan Iron Works.

The chief merits of this pan consist in such an arrangemeut of the mullers as to cause the pulp to spread from the center to the outer rim of the pan, and with such velocity that the particles of metal are thereby injected into the column of mercury, distributed around the circumference of the pan, and which the motion of the mullers causes to rise several inches without coming in contact with the grinding surface of either muller or pan. By this arrangement the objection of grinding of the ore in coatact with the mercury is avoided. The discharge of the pan is from an aperture in the center and top of the lid, (for the pan is closely covered) while the motion of the grinders is at the bottom of the pan. This arrangement is designed to prevent such heavy substances as gold, silver, or mercury from floating off with the water.

525 Charles Biddleman, San Francisco: one tray and one box of Precious Stones.

526 Robert Caster: three Tea Economizers.

527 Gavin Cibb & Co., San Francisco: three barrels Paint; three half barrels Paint.

530 Caleb M. Sickler, Kearny street: Coal Hods, California make.

531 Theodore Severin, 522 Kearny street: two show-cases Pistols, Guns, etc.

The home-made rifle in this exhibition has not been sent to the Fair for elegance; but for solidity and correctness of workmanship. It was intended and manufactured not for show but for use; and in that view will be found superior in quality, as can at any time be proven by trial.

534 E. C. Mitchell, San Francisco: one combined Faucet and Measure.

535 J. E. Jorgensen, San Francisco: two Hendrickson's Chimney Tops.

541 Rix, Logan & Co., San Francisco: one Hammer Battery.

This is a new application of the principle of the well-known trip-hammer quartz mill, invented and exhibited by these gentlemen at the last Exhibition. That machine, it will be recollected, was designed for dry-crushing, and the hammers were made to strike down blows, as nearly as possible in imitation of a hammer blow given by the human hand and arm. That principle would be quite inapplicable to working in water; consequently an entire chaage in the mode of its application has been devised in the present machine. Space, at this time, will merely admit of our saying that it is founded upon correct scientific principles, which, so far as experimental trials show, are quite practicable in their application, and exceedingly effective in operation. The machine, although extremely simple when fully understood, is nevertheless very difficult of description without the aid of diagrams. With the exception of its octagonal shape, which is indispensable to the principle, it has every appearance of an ordinary pan; yet it is simply a "crusher," requiring a "cracker" similar to Blake's or Hanscom's, to precede it, and a triturating and amalgamating pan to follow it. There is perhaps no machine in the Pavilion which involves more scientific detail than this. The principles of its construction and the philosophy of its operation combine and unite all the advantages of both dry and wet crushing, with apparently none of the objections of either—the importance of which need only be mentioned to be fully appreciated by all quartz mill men. If it should succeed in actual practice, as well as it appears to do experimentally, there is much reason to believe that the inventor has hit upon a valuable as well as novel method of reducing quartz.

543 Gallagher, Weed & White, San Francisco: one Steamboat Gong Bell.

This gong-bell is from the Brass Foundry of Messrs. Gallagher & Weed, and is of fine workmanship and superior tone—equal to the best imported.

545 J. Strahle, San Francisco: one French Carom Billiard Table; one Centre Table.

The small French carom table which is included in the above entry, was manufactured in this city, by the exhibitor, who is the pioneer billiard table manufacturer on this coast. The one now exhibited is No. 1,879 of his make. The bed is of Vermont slate, which is considered by many superior to marble for such work, by reason of its greater strength. The cabinet work of this table is very superior. Mr. S. obtained the premium for cabinet work last year. A small drawer has been neatly placed in one end, for receiving the balls, chalk, etc., when not in use. Mr. S. makes numbers of tables for private houses in this city and vicinity. The top of the elegant centre-table, standing near, is of the same kind of slate as that used in his billiard tables, which is brought from the town of Hitewell, Vermont. It was polished and colored in imitation of marble, by Messrs. Hitewell & Co., of whom Mr. S. obtains his slate beds, ornamented in the centre with the likeness of Mr. Strahl, copied by traasfer from his diploma, and sent out as a present by his Green Mountain friends. The neat and highly finished base upon which it rests was made by Mr. S., at his manufactory, ia this city.

547 A. M. Stetson, San Francisco: one Self-Operating Amalgamator.

We have already described the principle upon which this amalgaaiator works in noticing the model, under aaother entry. This machiue is of working size, and visitors will have an opportunity of seeing it at work during the exhibition. It is self-operating, aad has proven very efficient as a gold-saver when placed after all other appliances.

549 J. & W. C. Salmon, S. F.: one Model of Settler.

This little machine is run every evening at the Pavilion, by gas generated in Frink's soda apparatus.

550 J. F. Dow, Russian River: sample of Corn.

These stalks of corn are thirteen feet high.

552 Goodwin & Co., San Francisco: one Parlor Set, in green and gold finish.

We have here a full parlor set of rosewood aad green and gold brocatelle, which shows off to great advantage, especially by gas-light. The ladies are particularly attracted to these elegant pieces of furniture. They also exhibit a red plush parlor set, a library set, a bedroom set, an elegant sideboard, and a splendid Turkish chair, made at their manufactory, in this city. This firm received the premium last year for the best exhibition of upholstery.

554 A. N. Rood & Co., San Francisco: one Job Press.

In this entry we have a new small size Degener Liberty Press, which works neat and rapid, throwing off cards to visitors. The proprietors are advertising agents, and circulate the cards free, in accordance with their contract with certain advertisers. Like their neighbors of the DAILY FAIR PRESS, they seem to be doing an active business.

555 Carlton Newman, San Francisco: one lot Fruit Jars.

556 Wm. H. Jessup, San Francisco: two lots Matches, in glass cases; one lot Matches, in boxes—California manufacture.

557 O. Irwin, Marin county: one specimen of White Red wood.

559 Charles A. James, San Francisco: samples of Eureka Patent Blasting Powder—California manufacture.

This powder is manufactured on the San Bruno road, in this city, and is now being quite extensively introduced into the mines for blasting purposes. Those who have used it generally pronounce it fully equal to the best of ordinary blasting powder, bulk for bulk; while a decided advantage is gained in transportation, by the decrease of weight. It is not permanently injured by wetting, but may be dried and rendered as effectual as ever. It also possesses the peculiar advantage of producing much less smoke than ordinary powder.

560 W. Bloom, San Francisco: one bundle Tanned Sheep Skin.

563 Z. Sykes, San Jose: one Seed Drill.

This machine is an Eastern patent, bnt is manufactured at the Golden State Foundry, in this city. The drills are made, the seed dropped and covered—all at one and the same time—as the machine moves over the ground.

568 Lewis Leland, Occidental Hotel, San Francisco: one case Specimens, and pieces of the Big Tree of Calaveras county.

574 M. McLaughlin, Foreman Broderick Engine Co., San Francisco: Gold Medal.

This beautiful work of art has been furnished by the members of Broderick Engine Co., of this city, to be presented by them to John Decker, Chief Engineer of the New York Fire Department. It is a truly elegant and appropriately designed testimonial, and exceeds in value $500. The design is a shield, surrounded with elegant scroll work, and surmounted with a spread eagle, ladder and fire-hook. The centre of the shield shows the coat of arms of California in *basso relievo*, with the word "Eureka," and thirteen stars. The whole is six inches in length by three wide, and every portion is finished in the highest style of art, by Messrs. Pohlmann & Bellemere, 516 Clay street, San Francisco. This splendid badge will doubtless be much admired and highly prized in the Atlantic metropolis. The whole is a neat affair on the part of the Broderick boys.

578 E. F. Mock, Petaluma: Model of Hay Press.

This is a new California invention, and is exhibited in model only. It works upon a principle entirely new. The hay is fed into the machine by a trough, and in the same manner that straw or other material is fed to the knife of a straw cutting machine. Instead of encountering a knife, however, it first meets and passes between rollers, which crush the hay, cotton, or whatever it may be desired to press, passing it through in the shape of thin sheets, and taking from it nearly all its elasticity; beneath the rollers is a vibrating carriage, which moves back and forth through a space equal to the width of the bale which it is intended to produce, and into which the stream of pressed material is made to pass. The backward and forward motion of this carriage or box causes the material to fall in folds. This is all accomplished by simply turning a crank. When the box is thus filled, by a slight change in the adjustment of the machinery, a still further turn of the crank forces down a follower, which presses the folded hay firmly into the box. Another slight adjustment carries the box with its load of pressed hay forward a few inches and automically deposits it, by the use of the same crank motion, in another box, open upon the two sides, the closed box being immediately withdrawn, to receive a new packing from the rollers. While that is being done, the tyers secure the first

bale and remove it preparatory to receiving the second. The whole operation is very simple, rapid and easy of execution; requiring apparently but little power. The invention is quite novel, and well worthy the attention of farmers and others interested in packing and pressing heavy goods. It was invented by Mr. W. B. Mock of Petaluma, who died a few weeks since, just after he had completed his machine. It is now in the possession of his brother, E. F. Mock, the exhibitor.

570 W. B. Lake, Agent, No. 20 Government House, San Francisco: Lincoln's Latest Chamber Drill—Godfrey & Shurwood, proprietors.

This drill is designed to form a chamber at the bottom of an ordinary drill hole, by the forcing outward of diamond cutters at the base of the drill on the descent of the blow. It is simple in construction, and works with apparent success. The enlargement of the hole at the bottom admits an increased charge of powder and gives the explosion an upward purchase, rendering the blast much more effectual in hard rock.

580 Wm. A. Wolfe: one bundle of "equisetum hyemale," commonly known as Horsetail or Dutch Rush.

These plants, which were produced upon the grounds of Dr. B. J. Smith, at the Health Institute, four miles from Oakland, are of extraordinary growth, measuring six feet six inches high. These plants are leafless, with hollow stems, and contain an extraordinary amount of silicious matter, to which is due their extremely firm texture or organization. They are used for scouring purposes, and for polishing wood and metals. They are extensively employed in some parts of Europe for putting the finishing touches upon manufactured articles of ivory.

581 Andrew Hunter, San Francisco: Sulphurets concentrated by Hunter's Concentrator.

582 Grover & Baker Sewing Machine Co., J. W. J. Pierson Agent, San Francisco: seventeen Sewing Machines; also, lot of Clothing and Articles made upon said machines. Entered for premium.

The following samples of work from this machine are on exhibition, and are well worthy of a careful examination: Blue silk opera cloak, embroidered, appliqued with white velvet, lined with white silk, quilted in flowers and diamonds; cloth smoking jacket, faced and lined with pink silk, quilted in diamonds and flowers; white muslin dress, made up of alternate rows of fine tucking and puffs—trimmed with insertion and edging; white lawn dress, with very fine tucks; white marseilles dress, braided with black; green poplin dress, appliqued with black velvet. This work was executed on the Grover & Baker Machine, by Mrs. I. Harding, formerly Mrs. P. E. Rogers.

It is claimed for this machine, that—

1. It is more simple, durable and less liable to derangement than others.

2. It sews from ordinary spools, and no re-winding of thread is necessary.

3. It sews with equal facility all fabrics, the most delicate and the heaviest, and with all kinds of thread, silk, cotton or linen.

4. Its seam is so strong and elastic that it never breaks, even on a bias.

5. It fastens *both* ends of the seam by its own *operation*.

6. Its seam, though cut at every sixth stitch, remains firm, and neither *runs* or *ravels* in wear.

7. Its seam is more plump and beautiful, and retains its plumpness and beauty, after washing, better than any other.

8. Its seam can be removed in altering garments, AFTER PROPER INSTRUCTION, without picking or cutting them.

9. Watching and varying the tensions upon the threads, necessary in other machines, is unnecessary in this. The tension being once adjusted on the Grover & Baker machine, any amount of sewing may be done without change.

10. It makes beautiful embroidery without any change of arrangement, simply by inserting threads of suitable sizes and colors for this purpose. It is the *only* machine that *both* embroiders and sews perfectly.

583 Goodwin & Co., San Francisco: Chamber Set, consisting of four pieces.

584 P. B. Comins, San Francisco: two bottles of Sauce.

585 Mizgill & Cooper, 810 Market street, San Francisco: one Shoeing Hammer.

586 Blake & Co., San Francisco: machine for Manufacturing Gas.

This is an automatic gas machine, designed for use in public buildings and private families. The machinery works by means of a weight, which has to be wound up, and commences making gas when the lamps are lighted, ceasing the operation when they are extinguished. The gas is manufactured from gasoline. By the use of this machine it is claimed that a single burner will consume only one gallon of gasoline in forty or forty-five hours. Gasoline is worth about fifty cents a gallon. From this one may easily calculate the approximate cost of lighting a building. The machine can be placed in the basement or any other convenient place about the house, requiring only about as much room as an ordinary bureau.

588 Phillip Hinkle, San Francisco: one Grinder and Amalgamator.

This is a grinder and amalgamator combined. The principle of its construction is quite novel, simple and apparently effective. The pan on exhibition is of model size, yet sufficiently large to do very effective work. Instead of the ordinary mullers, covering with their grinding surface the entire bottom of the pan, there is a set of small mullers revolving around the shaft and reaching about one-third the distance to the circumference. At the extremity of the arms is a hinged muller, hung on arms connected with a single bolt, and so arranged that when the arms revolve the faces of these mullers are pressed outward, by centrifugal action, against the inside surface of the rim of the pan; thus, instead of acting upon the bottom of the pan, as the ordinary mullers do, it forms a grinding surface with the side, and is so hung as to admit of the pulp being readily forced between the grinding surfaces thus formed. The centrifugal action of the whirl of the pulp in the pan naturally carries the coarser particles toward the circumference, just where they are wanted to be properly reduced. A copper cover, formed with an inverted cone shape, with an opening in the centre, and reaching nearly to the circumference of the pan, is so placed that the pulp is made to overflow at its outer rim, and run down upon its inclined surface, discharging at the centre. By this means a constant current is kept up from the centre to the circumference, and the cover being made of copper and coated with mercury, adds greatly to the amalgamation. The quicksilver is placed in a slight depression in the bottom of the pan, entirely removed from the action of the mullers. The rock only requires to be crushed to the size of peas for this pan, the pan generating its own heat by friction, requiring no steam for that purpose. This pan was manufactured at the Novelty Iron Works, in this city, and is the invention of the exhibitor, Phillip Hinckle.

609 Pacific Guano Company, San Francisco: one sample of Guano, from Johnston's Island.

604 G. W. Traver, San Francisco: four Minor's Patent Pocket Lanterns.

By an ingenious device of hinges, etc., this lantern, when not needed for immediate use, may be folded up so as to occupy no more space than a somewhat thick memorandum book. Isinglass is employed instead of common glass. Mr. Minor is the inventor.

— B. L. Perkins, Golden Gate Seed Gardens, Oakland: 22 varieties of Pears; 23 do. of Apples; 7 do. of Plums; 7 do. of Dried Fruits; 1 jar of Brandy Peaches; 108 varieties of Seeds, in bottles; 70 varieties of Garden Vegetables.

COLLECTION OF MINERALS, ETC.

—INCLUDING—

Minerals, Mineral Oil, Fossils, Curiosities, Models, Etc.

Contributed to the Exhibition of the Mechanics' Institute of 1865, through the care of Dewey & Co., proprietors of the MINING AND SCIENTIFIC PRESS.

21 E. Benoist, 643 Third street, San Francisco: three bottles Crude Oil; three do. Lubricating Oil; three do. Burning Oil; three do. Benzole Oil; one plan of Still, United States patent. Plan of Still invented by A. Millack, New York.

This is one of the most important and significant among the minor exhibitions in the pavilion. It consists of samples of crude oil from various sections of the State, exhibited by the side of the burning fluid, lubricating oil and benzole manufactured from those crude oils. This exhibition testifies most unmistakably to the fact that California can not only provide the raw material; but also the skill to transform that raw material into the several parts and conditions requisite for applying the same to the various commercial purposes for which each is suited. Mr. Benoist, the exhibitor, is prepared, whenever suitable encouragement is given, to undertake the refining of oil to any extent which the commercial wants of this city may require. He has fully proven, by practical experiment, that the oil of the California wells and springs is fully equal, and indeed generally superior to that obtained from the oil regions of the Atlantic States. A most favorable opportunity appears to be afforded at this time, and during the present high price of oil, to embark in the enterprise of refining. Where, as in all human probability will soon be the case in this city, oil will be brought directly to the refinery for manufacture, a very small capital only, will be required to initiate and carry on the business. Parties interested will do well to consult with Mr. Benoist upon this matter, who is probably better acquainted with the business than any other person on this coast.

62 Charles F. Boshew, San Francisco: twenty papers Warren's Lustrina; one specimen of Gold and Quartz from Isabella Mine; one specimen of Gold Quartz from Nimrod mine; one specimen Gold Quartz from Gold Point Mine; one Shell with Lord's Prayer written upon it.

The material from which this lustrina is manufactured appears to consist of finely pulverized silex in a soft cement of either a magnesian or calcareous character. The manufactured article is said to be a very valuable article for polishing tin and brass ware, cleaning glass, etc.

113 B. H. Ramsdell, San Francisco: one piece Coal from Black Diamond Coal Mine. [Described in 113 of the General Catalogue.]

116 California Borax Co., San Francisco: one case Borax. [Transferred to Art Gallery.]

121. Capt. J. M. Aiken, Coulterville, Mariposa county, Cal.: one case of California and Nevada Minerals, etc., containing upwards of four hundred specimens; one splendid Manzanita Cane.

The contents of this unique cabinet comprises 400 phials, containing 130 different kinds of minerals, including quartz and placer gold, argentiferous and auriferous sulphurets, coal, cinnabar, nickel, lead, copper, precious stones, petrifications, sands, several natural curiosities, etc. Capt. Aiken has devoted a large portion of his time for the last six or seven years in getting together this interesting and unique collection. Mr. Aiken has also, during the same time, collected a fine shelf cabinet of minerals, which, however, was too bulky to bring to this city for exhibition. The case itself is also a rare specimen and an elegant exemplar of the natural beauties of our California woods. It is made of seven different kinds of native wood, viz:—Manzanita, mountain mahogany, Indian arrow, granite wood (so called), live oak, red oak and sugar pine—each showing the natural grain of the wood, without paint or varnish; the surface being merely polished by a smooth instrument. This rare specimen of cabinet work is from the hands of Adolph Sinning, of Coulterville, who has thereby shown himself a most expert and tasteful artificer in wood.

This cane is manufactured from Manzanita and inlaid with Indian arrow wood. The head, eyes and ferrule, are of California gold; the former being set with an elegant specimen of gold-bearing quartz. The cane is made of manzanita, divided into six panels, bordered with Indian arrow wood. The first panel is inlaid with granite wood around the silver plate; the second and third, with mountain mahogany from Esmeralda. The silver is from Esmeralda. The whole is the workmanship of Adolph Sinning, and was executed on the North Fork of the Merced. The cane and case are valued at $150, at which price it will be sold after the Fair.

124 Arizona Consolidated Mining Company: one bar of Lead and Silver; one Specimen Silver and Lead Ore.

This magnificent specimen of argentiferous silver ore is from the Arizona Consolidated Mining Company's mine, on the Carmel lode, Eureka district, Arizona Territory. The assay value of 18 tons has been ascertained to be $130. An eleven pound bar of metal, accompanying this specimen, which was taken from twenty pounds of the ore, assays at the rate of $83 dollars in silver to the ton, and 60 per cent. of lead.

136 Lewis Leland & Co., Occidental Hotel, San Francisco: two cases Confectionery; one case Minerals.

This is an elegant assortment of specimens and curiosities, comprising a great variety of gold, silver, copper, cinnibar, and iron ores, etc. We have here a beautiful massive specimen of gold, in a dark colored quartz, from the Boise river. This specimen presents one of those rare forms of auriferous crystalization known as filiform; a rich specimen of gold ore from the famous Moss mine, near the Colorado, and other gold specimens from the Owyhee and several other important localities on the Pacific coast. There is also a very large and beautiful specimen of malachite (green carbonate of copper), from Australia; copper glance, (the richest of copper ores;) also a very fine specimen of azuline, (blue carbonate of copper.) Here may also be found two most elegant specimens of opalized wood (petrifactions) one of which is beautifully cut. We also notice a very finely polished specimen, labeled marble, but which, on examination through the glass without handling, we should judge to be steatite. The specimen is probably magnesian, and not calcareous. There is an elegant cabinet of lava and sulphur, collected at the sulphur banks and caves about the great volcano on the Sandwich Islands; also a piece of the coping of the famous Chinese porcelain tower which we read of as among the great curiosities of China. Mr. Leland also exhibits specimens of the bark and wood of the Big Tree of Calaveras county.

139 E. Rondal, San Francisco: six Specimens Copper Ore from La Victoire mine, Mariposa county.

This is considered one of the richest copper mines in the State. The largest specimen in the series exhibited represents the foot wall of the vein carrying yellow sulphurets, the second is a talcose ore of a peculiar character carrying a large amount of native copper; the other samples are made up of sulphurets and grey ore. A small seam of gold bearing quartz runs through the vein some specimens of which accompany the collection on exhibition.

213 V. M. Foucault, Washington Territory: one case Geological specimens.

This is a splendid display of some two or three hundred specimens of fossils, collected mostly in Washington Territory, and principally from the immediate vicinity of the Fuca Strait coal mine. It comprises shells, marine animals and plants, fossilized wood, bones, etc. These fossils are all from the tertiary formation, which immediately overlies the coal, and are mostly of species wholly unknown in any other portion of the world. The specimens exhibited, which are all of extinct varieties, comprise but a small portion of the entire number that has been collected by Mr. Foucault. That gentleman has devoted much time and expense in making these collections, and traveled many hundreds, if not thousands of miles, in search of them. Such collections, although they may seem to the casual observer of but little use, save as curiosities, are nevertheless of great practical value to the scientific man, in enabling him to determine the age of the various rocks, their relative position, and the probabilities of finding coal in their neighborhood. It is the intention of Mr. F. to devote all his leisure time for the next two years in making additions to his collection, after which time he will take it to Paris, where it will be submitted to the inspection of European *savans*, who, from the simple examination of these fossils, will be able to form almost as complete and correct an estimate of our geology, as they could from personal examination of the same.

214 H. M. McCormick, Tulare county: one lot Silver Ore, from Kearsarge district.

This ore is the only sample of ore on exhibition from this new and celebrated mining district. These samples are said to be characteristic of the general appearance and character of the ores of this district.

223 Mr. Layne, Placer County: specimens Silver Ore.

The peculiar interest attached to this rare exhibit is the rarity of silver ore on the west side of the Sierra. The mine is situated in Placer county, about four miles from Folsom, and is easy of access, having on this account a great advantage over the more distant and famous mines of Nevada. Mr. Layne exhibits a small brick of gold and silver bullion from this mine. It is claimed that one lot of 1,900 pounds of second-class ore from this mine, worked at the Pacific Metallurgical Works, in this city, gave $36 in silver and $16 in gold, while a lot of third-class ores, worked at the same establishment, gives as a result $20 per ton in silver and $10 in gold. One hundred pounds of first-class ore, worked at the San Francisco Foundry, yielded at the rate of $95 per ton in gold and silver, the latter predominating.

249 J. C. Gouldin, San Francisco: four specimens Argentiferous Galena.

253 L. P. Collins, San Francisco: seven specimens Copper Ore, from Taylorsville, Plumas Co.

These specimens indicate the presence of very rich deposits of copper ore, of the peacock variety. It is well known that, so far as the copper mines of this county have been opened, they equal, if not excel in richness, any mines of copper ore in the world. The cost of transportation as yet will not admit of their being very economically worked. Railroads, however, will soon bring the product of these mines into the market, when Plumas will ustonish the world with produce of copper

262 O. W. Euston, San Francisco: lot of Mineral Specimens.

An examination of this collection will give the visitor a very correct idea of several varieties of rock most frequently met with in the mining regions. We have a hornblende slate, from Amador; a talcose slate, carrying crystalized quartz, and a chloritic slate, from Campo Seco, Amador, and a clay slate from San Pablo. Of traps, we have greenstone trap from the hanging wall of the Union copper mine, and talcose amorphous trap from the Newton mine. A fine specimen of acicular hornblende from San Pablo. Two specimens of marble from the El Dorado quarry, and two from the El Dorado cave. A specimen of iron ore from a mountain mass of the same mineral near the Dana mine, Washoe, and a number of other interesting minerals, all of which, with these mentioned, are carefully labelled for identification.

291 Gus. Reis, San Francisco: samples of Silver Ore from Mexico.

These fine specimens of silver ore were taken from a mine located about 125 miles north of Mazatlan. It has been worked by Mexicans about thirty years, and is thoroughly opened. Some two years since it passed into the hands of its present proprietors; since which time a small mill has been built and the mine still further developed under the charge of Mr. W. C. Campbell. During the progress of this work, a small streak, which contained the chief pay rock, has widened out from a few inches to four feet in width, while the entire width of workable ore is as yet undetermined. The specimens exhibited were taken from this pay streak, about 1,000 pounds of which were brought up by Mr. Campbell, who recently arrived in this city. It will be observed that one of the large specimens exhibited contains a large quantity of native silver, while the others consist of an argentiferous galena. These two classes of ore appear to run side by side into the mountain, with every prospect of indefinite continuance. The company will send down heavy machinery in October next, and commence active operations at the mine. The working of the Mexicans has heretofore been confined exclusively to the argentiferous galena, of which almost the entire mountain seems to be pretty much composed. This ore has been worked in rude furnaces of their own construction, and pays from $50 to $150. The specimen on exhibition pays about $100 to the ton.

301 J. A. Bauer, San Francisco: one case Preparations—gold, silver and copper.

These preparations consist of a fine display of nitrate of silver, sulphate of copper and chloride of gold and sodium, all prepared by Mr. Bauer. The nitrate of silver is made by dissolving metalic silver in nitric acid. This preparation is used extensively in photography—about a ton of silver being thus required each year in the United States. We understand that Mr. B. obtains his sulphate of copper by a new process for which a patent has been solicited.

302 A. Hunter, San Francisco: one case Sulphurets.

These specimens consist of auriferous argentiferous and cupriferous sulphurets, also cinnabar, beach sands, etc. They have been concentrated by the use of Hunter's celebrated concentrator, the working of which has already been described under its appropriate head.

[To be Continued]

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, August 26.

4 shs Chollar at 485 per foot.
4 shs Gould & Curry at 1325 per foot.
75 shs Daney at 70@75 per share.
10 shs Daney at 75 per foot, b 3.
15 shs Daney at 74 per share, s 3.
5 shs Overman at 200 per foot, b 10.
5 shs Overman at 200 per foot.
6 shs Belcher at 870 per foot.
12 shs Crown Point at 1240@1215 per foot.
21 shs Yellow Jacket at 1505@1485 pr foot.
4 shs Yellow Jacket at 1475@1470 per ft, s 30.
2 shs Yellow Jacket at 1490 per foot, b 5
1 sh Yellow Jacket at 1510 per foot, b 30.
1 sh Yellow Jacket at 1485 per foot, s 3.
3 shs Yellow Jacket at 1495@1490, b 10.
1 sh Yellow Jacket at 1480 per foot, s 10.
2 shs Uncle Sam at 21 2½ per foot.
120 shs Ophir at 345 per foot, s 30.
72 shs Ophir at 350 per foot.
30 shs Burning Moscow at 50 per share.
240 shs Sierra Nevada at 24@34¾ per share.
80 shs Sierra Nevada at 24 per share, s 15.
100 shs Sierra Nevada at 24 per share, s 10.
10 shs Sierra Nevada at 25 per share, b 5.
20 shs Sierra Nevada at 25½ per share, s 3.
10 shs Sierra Nevada at 25 per share, b 3.
10 shs Caledonia Tunnel at 5¼ per share.
60 shs Chas Cany at 7¼@9 per share.
10 shs Charles Cany at 8 per share, s 3.
99 shs Imperial at 24@25 per share.
20 shs Imperial at 244½@246 per sh, s 3.
10 shs Bullion at 165 per share.
70 shs Lady Bryan at 6 per share.
10 shs Wide West at 7 per share.
50 shs Buckeye 8 per share.
65 shs Spring Valley W W Co at 51 per cent
200 shs Spring Valley W W at 51 per ct, s 3.
5 shs Pacific Insurance at 160 per cent.
150 shs Firem'ans' Ins Co, 11 2½ per cent.
Amount of sales.....$128,132 09

Monday, August 28.

7¼ shs Belcher at 880 per foot.
3 shs Belcher at 900 per foot, b 30.
6 shs Belcher at 885 per foot.
3 shs Belcher at 910 per foot, b 60.
18 shs Belcher at 915 per foot, b 30.
18 shs Belcher at 90 per foot.
2 shs Potosi at 440 per foot.
16 shs Potosi at 430 per foot.
2 shs Potosi at 432 per foot.
6 shs Yellow Jacket at 1500 per foot.
2 shs Yellow Jacket at 1500 per foot, r w.
3 shs Yellow Jacket at 1500 per foot, s 5.
1 sh Yellow Jacket at 1505 per foot, b 5.
2 shs Yellow Jacket at 1507½ per foot.
4 shs Yellow Jacket at 1495 per foot.
10 shs Hale & Norcross at 490 per foot.
2 shs Uncle Sam at 20 7½ per foot.
15 shs Uncle Sam at 205 per foot.
240 shs Ophir at 345 per foot.
60 shs Daney at 73 per foot.
20 shs Daney at 72 per foot.
12 shs Crown Point at 1220 per foot,
5 shs Imperial at 257½ per share.
20 shs Imperial at 260 per share.
15 shs Imperial at 262½ per share.
5 shs Imperial at 261 per share, b 3.
10 shs Imperial at 280 per share, b 3.
16 shs Sierra Nevada at 27 per share.
100 shs Sierra Nevada at 29 per share.
20 shs Sierra Nevada at 28½ per share.
30 shs Sierra Nevada at 30 per share.
20 shs Sierra Nevada at 30 per sh, s 3.
15 shs Sierra Nevada at 31 per share.
30 shs Sierra Nevada at 31 per share, s 10.
10 shs Sierra Nevada at 31½ per share.
10 shs Sierra Nevada at 32 per share.
40 shs Sierra Nevada at 31 per share, s 15.
30 shs Lady Bryan at 6¼ per share.
15 shs Bullion at 165 per share.
5 shs Bullion at 170 per share, b 30.
30 shs Caledonia Tunnel at 5 per share.
50 shs Spring Valley W Co at 51 per cent.
38 sh3 Pacific Ins Co at 160 per cent.
$ 5,000 Legal Tender Notes at 73¼, r w

AFTERNOON SESSION.

3 shs Belcher at 910 per foot.
6 shs Belcher at 920 per foot.
3 shs Belcher at 925 per foot.
5 shs Belcher at 935 per foot, s 5.
2 shs Savage at 1300 per foot, s 30.
1 sh Savage at 1310 per foot, s 30.
20 shs Daney at 73 per foot.
4 shs Daney at 70 per share.
40 shs Daney at 72 per foot.
20 shs Daney at 71 per foot.
40 shs Daney at 70 per foot.
80 shs Daney at 71 per foot, s 3.
2 shs Uncle Sam at 200 per foot.
10 shs Uncle Sam at 195 per foot.
2 shs Uncle Sam at 194 per foot, r w.
6 shs Uncle Sam at 193 per foot.
5 shs Yellow Jacket at 1520 per foot.
2 shs Yellow Jacket at 1515 per foot.
2 shs Yellow Jacket at 1515 per foot, r w.
2 shs Yellow Jacket at 1520 per foot. r w.
2 shs Potosi at 460 per foot.
4 shs Potosi at 455 per foot.
12 shs Potosi at 555 per foot, r w.
4 shs Chollar at 500 per foot, r w.
5 shs Bullion at 165 per share, b 5.
5 shs Bullion at 165 per share, s 3.
35 shs Bullion at 167½ per share.
5 shs Bullion, G H, at 167¼ per share, s 3.
15 shs Bullion at 170 per share.
25 shs Imperial at 264 per share.
35 shs Imperial at 259 per share.
5 shs Imperial at 260 per foot. r w.
10 shs Imperial at 260 per share, h 10.
35 shs Imperial at 260 per share. b 6.
5 shs Imperial at 259½ per share.
20 shs Caledonia Tunnel at 5¼ per share.
65 shs Sierra Nevada at 32 per share.
10 shs Sierra Nevada at 31 per share.
30 shs Sierra Nevada at 30½ per share.
100 shs Sierra Nevada at 30½ per share, s 3.
10 shs Sierra Nevada at 30 per share.
20 shs Sierra Nevada at 29 per share.
60 shs Sierra Nevada at 28 per share.
10 shs Sierra Nevada at 27½ per share.
45 shs Sierra Nevada at 27 per share.
1 sh Confidence at 121 per share.
10 shs Confidence at 120 per share.
Amount of sales.....$219,320 00

Tuesday, August 29.

2 shs Uncle Sam at 190 per foot.
5 shs Uncle Sam at 190 per foot, r w.
1 sh Uncle Sam at 192 per foot.
7 shs Uncle Sam at 195 per foot.
3 shs Uncle Sam at 197¼ per share.
20 shs Chollar at 500 per foot.
60 shs Daney at 71 per share.
20 shs Daney at 71 per share, b 5.
160 shs Daney at 70 per foot, s 3.
1 sh Overman at 190 per foot.
10 shs Overman at 190 per foot, b 10.
5 shs Overman at 195 per foot, h 10.
1 sh Crown Point at 1215 per foot.
1 shs Crown Point at 1190 per foot.
5 shs Crown Point at 1195 per foot.
1 shs Crown Point at 1205 per foot, s 30.
3 shs Crown Point at 1200 per foot.
2 shs Potosi at 461 per foot.
4 shs Potosi at 465 per foot.
12 shs Hale & Norcross at 500 per foot.
1 sh Yellow Jacket at 1540 per foot.
2 shs Yellow Jacket at 1545 per foot.
6 shs Belcher at 920 per foot.
3 shs Belcher at 930 per foot, s 3.
6 shs Belcher at 930 per foot.
24 shs Ophir at 335 per foot.
7 shs Imperial at 260 per share
20 shs Imperial at 268 per share.
18 shs Imperial at 257 per share.
6 shs Imperial at 256 per share.
3 shs Imperial at 255½ per share.
20 shs Sierra Nevada at 31 per share.
10 shs Sierra Nevada at 30 per share, s 30.
17 shs Sierra Nevada at 30½ per share.
20 shs Sierra Nevada at 30 per share.
20 shs Sierra Nevada at 28 per share, s 15.
10 shs Sierra Nevada at 28 per share, s 10.
40 shs Sierra Nevada at 29 per share.
10 shs Sierra Nevada at 29 per share, r w.
50 shs Sierra Nevada at 28 per share, s 15.
10 shs Sierra Nevada at 28½ per share.
10 shs Sierra Nevada at 28 per share.
10 shs Burning Moscow at 50 per share.
10 shs Wide West at 7 per share.
50 shs Lady Bryan at 6½ per share.
40 shs Lady Bryan at 6¾ per share.
120 shs Caledonia Tunnel at 6 per share.
100 shs Caledonia Tunnel at 6¾ per share.
20 shs Exchequer at 40 per share.
7 shs Confidence at 130 per share, b 3.
2 shs Confidence at 119 per share.
1 sh Confidence at 120 per share.
24 shs Confidence at 121 per share.
4 shs Confidence at 123 per share.
12 shs Confidence at 131 per share. s 3.
20 shs N. American, Ex Sam, at 25 per sh.
2 shs Cal. Steam Nav. Co. at 85 per ct, s 3.

AFTERNOON SESSION.

4 shs Crown Point at 1200 per foot.
4 shs Crown Point at 1210 per foot
4 shs Crown Point at 1205 per foot, b 3.
24 shs Ophir at 330 per foot.
24 shs Ophir at 325 per foot.
12 shs Ophir at 325 per foot, b 3.
132 shs Ophir at 320 per foot.
12 shs Ophir at 321 per foot, s 3.
60 shs Daney at 70 per foot.
3 shs Hale & Norcross at 500 per foot.
1 sh Overman at 192½ per foot.
2 shs Overman at 212 per foot.
5 shs Uncle Sam at 200 per foot.
6 shs Potosi at 455 per foot.
6 shs Yellow Jacket at 1525 per foot.
1 sh Yellow Jacket at 1525 per foot, b 3.
1 sh Yellow Jacket at 1525 per foot, s 3
1 sh Yellow Jacket at 1520 per foot, b 20.
6 shs Yellow Jacket at 1530 per foot.
1½ shs Belcher at 920 per foot.
3 shs Belcher at 930 per foot.
150 shs Exchequer at 40 per share.
80 shs N. American, Ex Sam, at 25 per sh.
5 sh Imperial at 255 per share.
20 shs Imperial at 253 per share.
6 shs Imperial at 252½ per share.
11 shs Imperial at 253 per share, h 5.
5 shs Confidence at 135 per share.
5 shs Confidence at 135 per share, s 3.
1 sh Confidence at 136 per share.
10 shs Sierra Nevada at 30½ per share.
50 shs Sierra Nevada at 32 per share, h 30.
10 shs Sierra Nevada at 30½ per share, r w
10 shs Sierra Nevada at 30 per share.
10 shs Caledonia Tunnel at 5½ per share.
50 shs Burning Moscow at 50 per share.
4 shs Lady Bryan at 6¾ per share.
Amount of sales.....$130,134 00

Wednesday, August 30.

18 shs Ophir at 315 per foot.
24 shs Ophir at 310 per foot.
60 shs Ophir at 305 per foot.
95 shs Ophir at 300 per foot.
60 shs Ophir at 300 per foot, b 3.
12 shs Ophir at 300 per foot, b 10.
55 shs Ophir at 290 per foot, r w.
24 shs Ophir at 290 per foot.
23 shs Uncle Sam at 195 per foot.
25 shs Uncle Sam at 192½ per foot.
1 sh Uncle Sam at 196 per foot, b 3.
6 shs Uncle Sam at 192 per foot.
5 shs Uncle Sam at 192½ per foot, s 3.
3 shs Uncle Sam at 194 per foot.
4 shs Hale & Norcross at 500 per foot
16 shs Daney at 67½ per foot.
100 shs Daney at 65 per foot.
40 shs Daney at 65 per foot, r w.
20 shs Daney at 63 per foot.
2 shs Yellow Jacket at 1525 per foot. s 3.
3 shs Yellow Jacket at 1520 per foot.
1 sh Yellow Jacket at 1515 per foot, b 3.
5 shs Overman at 192½ per foot, s 3.
2 shs Potosi at 455 per foot, r w.
8 shs Potosi at 454 per foot, r w.
10 shs Sierra Nevada at 30 per share.
10 shs Sierra Nevada at 29 per share.
10 shs Sierra Nevada at 28 per share.
10 shs Sierra Nevada at 26½ per share, s 15.
5 shs Burning Moscow at 26 per share.
10 shs Burning Moscow at 27 per share.
10 shs Caledonia Tunnel at 7 per share.
290 shs Exchequer at 40 per share.
20 shs Exchequer, at 40 per share, b 3
2 shs Confidence at 135 per share.
5 shs Confidence at 130 per share.
20 shs N. American, Ex Sam, at 25 per sh.
145 shs Lady Bryan at 7 per share.
10 shs Imperial at 251 per share.
10 shs Imperial at 253 per share.
20 shs Bullion at 165 per share.
10 shs Chas Cany at 7 per share.
30 shs Spring Valley W W at 51 per cent.
6 shs Cal. Steam Nav. Co. at 85 p ct, s 3.
2 shs Cal S Nav Co at 84 per cent.

AFTERNOON SESSION.

84 shs Ophir at 303 per foot.
24 shs Ophir at 310 per foot, b 5.
59 shs Ophir at 310 per foot.
1 sh Yellow Jacket at 1500 per foot.
8 shs Yellow Jacket at 1450 per foot.
1 sh Yellow Jacket at 1475 per foot.
4 shs Yellow Jacket at 1470 per foot.
4 shs Yellow Jacket at 1450 per foot, s 30.
2 shs Yellow Jacket at 1450 per foot.
1 sh Yellow Jacket at 1440 per foot. s 30.
1 sh Yellow Jacket at 1465 per foot.
2 shs Yellow Jacket at 1460 per foot,
5 shs Uncle Sam at 197½ per foot, s 3.
12 shs Uncle Sam at 195 per foot.
2 shs Uncle Sam at 187½ per foot. s 30.
5 shs Uncle Sam at 185 per foot, s 30.
40 shs Daney at 62½ per foot.
60 shs Daney at 62½ per foot, s 3.
1 sh Savage at 1310 per foot.
1 sh Savage at 1305 per foot, s 30.
20 shs Sierra Nevada at 30 per share.
10 shs Sierra Nevada at 28 per share.
6 shs Sierra Nevada at 28½ per share.
10 shs Sierra Nevada at 29 per share.
15 shs Lady Bryan at 7 per share.
10 shs Lady Bryan at 7¼ per share.
24 shs Confidence at 130 per share.
30 shs Exchequer at 40 per share.
20 shs Exchequer at 39 per share.
20 shs Bullion at 166 per share, h 10.
10 shs Bullion at 167½ per share.
5 shs Bullion at 167 per share, h 3.
20 shs Bullion at 165 per share, s 3
15 shs Bullion at 165 per share.
10 shs Bullion at 152½ per share, r w.
30 shs Bullion at 152½ per share.
10 shs Golden Rule at 8 per share.
10 shs Imperial at 253 per share.
5 shs Imperial at 253 per share, s 3.
1 sh Cal. Steam Nav. Co. at 84 per ct.
Amount of sales.....$145,613 00

Thursday, August 31.

12 shs Overman at 325 per share,
12 shs Ophir at 310 per foot.

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, September 2d, 1865.

The amount of capital offering for loan purposes shows no abatement, amply supplying the wants of all classes who can furnish the requisite security. A fair demand prevails in bank circles, and choice names are passing at 1@1¼ ₱ cent. per month, the latter being the current rate for the usual discounts made. In the open market, negotiations are effected at 1@2 ₱ cent. per month according to the character of the collateral offering.

Receipts of treasnre from the interior and uorth coast since Saturday last amounted to $800,000, making an aggregate of $4,800,000 for the month of August. The yield of Nevada for the months of July and August has been less than $2,000,000, as against $2,800,000 during the two previous months.

Bullion has been in rather light supply this week, and a good demand prevailed for to-day's steamer. Gold bars were sold yesterday at 845@850, and silver was quotable at about par for average lots.

The Mining Share Market has been somewhat apathetic since Monday last, and transactions at the Board were of less importance than for a month past. There is little or no improvement to note, and some stocks are lower than at the close of last week. Nevada advices have been devoid of special interest, but so far as we can learn, the work of development is progressing with the usual vigor, without disclosing anything new.

Gould & Curry declined to $1,100, and is now offered at $1,200. The receipts of Bullion for the month of August amounted to some $175,000—equal to those of the previous month—and the ore redneed has averaged about $45 per ton. There will probably be no dividend for the month of August, for the reason that large disbursements have been made during the past sixty days, and still are required to pay for supplies needed at the mine and mill the coming fall and winter. For wood and timber alone, an aggregate expenditure of at least $100,000 will be necessary, and other extraordinary outlays will perhaps exceed that amount. It is proper to state, however, that a large portion of this indebtedness has already been provided for out of the net earnings of the mine. The company have on their dump pile and at their mill more thau 3,000 tons of ore, and are hoistiug an average of 100 tons per day.

Alpha has met with uo sale during the week, but is well controlled, and firmly held at about $1,900 per foot. Recent developments are regarded with much favor, and the affairs of the company are thought to be in a promising condition.

Yellow Jacket has continued to be actively dealt in, and 150 feet were sold, opening at $1,505, dropping to $1,480, advancing to $1,545, receding to $1,440, rallying to $1,450, and selling yesterday at $1,440 @1,435. For the two weeks ending August 21st, 1,601 tons of ore were extracted from the mine, and 1,548 tons were reduced, producing an aggregate of $58,267, and averaging $37.50 per ton. The Morgan Mill is to be completed and in running order on the 10th iust. Since April 15th, when the mill came into the possession of the company, 2,803 tons of ore have been crnshed, at a cost of $28,506.16, or $10.17 per ton, including all expenses, hauling, etc. The central shaft is now in good working order, extracting abont 200 tons of ore per day. The new shaft is at present 300 feet in depth, and a contract has been made to sink it 80 feet deeper, to correspond with the 430-feet level in the central works. The body of metal recently found in the eastern air shaft—430 feet level—is said to look encouraging.

Savage was sold at $1,310@1,300 per foot, and closes at abont $1,300. The old officers of the company have been chosen to serve anotber year. The different levels in this mine show a decided improvement, and the product of ore will be materially increased this month.

Crown Point declined from $1,240 to $1,190, rose to $1,210, then fell to $1,145, rose to $1,200, and closes at $1,190@1,185. The Rhode Island and Crown Point Mills are now reducing some 45 tons of ore per day, mainly taken from the 230-feet level. The drift west from the shaft, at a depth of 300 feet, is now in some 40 feet. An assessment of $100 per foot was levied on Thursday last.

Belcher has been in rather better favor, advancing from $870 to $935, then selling at $855, and closing yesterday at $860 bid. About 100 tons of low-grade ore are now daily taken from the old works, and a small vein of good ore bas been found in the north end of the 300-feet level, within 40 feet of the Crown Point line.

Hale & Norcross has been dull and inactive, and small sales were made at $490@500, then at $480 and $490, closing at $480.

Ophir was actively dealt in, and 75 feet were sold, declining from $350 to $290, rallying to $325, dropping to $280, seller 30, and changing hands yesterday at $275@285. A meeting of the stockholders was held on Wednesday last to legalize the present debt, and to authorize additional expenditures if they may be found necessary in the prosecution of their suit with the Moscow company, and the more thorough development of the mine. An exhibit was made, showing the present cash liabilities of the Ophir Company to be $68,000 We are informed that this does not include a floating indebtedness due attorneys and others, which, however, will probably not exceed $15,000, and is not immediately payable. The condition of the company's affairs in December last was substantially as follows: In the treasury, $10,817.75; materials on band, such as salt, quicksilver, wood, chemicals, etc., at the two mills, worth $105,000; ores mined and at the mills ready for reduction, valued at $48,200 net, together with 4,000 tons of low-grade ore on the dump, valued at $10,000; in all, $174,017.75. The cash materials on hand and the ores mined at the present time are valued at about $60,000. Notwithstanding the receipts of bullion have amounted to some $350,000 since December 15th, the company have consumed materials worth $114,000, and are now in debt, say $83,000. In other words, to produce $350,000 bullion, to pay legal expenses and explore the mine for new bodies of ore, an absolute loss of $200,000 has been incurred in about nine months. An assessment of $100 per foot was levied yesterday.

Chollar rose from $485 to $500, fell to $490, and closed yesterday at $480. Potosi rose from $430 to $460, receded to $450, and sold at the close at $440@420. The joint product of these two mines now average some 125 tons of ore per day. Work upon the magnificent new shaft of the consolidated company is progressing vigorously, and a depth of nearly 300 feet has already been attained. The winze under the Bajazette chimney is looking better, and the fifth station of the Potosi, running north, producing splendid ore.

Imperial opened at $248 per share, fell to $245, rose to $262½, declined to $250, rallied to $256, and sold yesterday at $250@253. In all, some 810 shares were dealt in. At a depth of 600 feet, a drift some 120 feet distant from the shaft in the new or sixth level has met with ore similar to that found in the middle body of the fifth level, and the air shaft snuk from the latter level a distance of 65 feet, is also in gu good ore. These developments are thought to indicate, with some certainty, the existence of as valuable a lode of metal at a depth of 600 feet as has been met with in the different levels above. The middle body of ore in the 530-feet level now furnishes most of the ore hoisted to the surface, and still shows a pay vein some 50 feet in width. The southwest deposit, same depth, in the direction of the Bacon mine, has improved, and is now nine feet wide. The east body, in stopeing up at the south, is also looking better, and promises to extend across to the north liue again.

The crushing capacity of the Rock Point mill is to be increased this month to 70 tons per day. in lieu of 50 tons, as heretofore. This will enable the company to reduce some 3,000 tons of ore per month, at their two mills. A dividend will be declared next week for the month of August.

Uncle Sam receded from $212½ cash, to $185, seller 30, and sold yesterday at $190@189. Overman has been moderately dealt in at $200@192½, closing at $190.

Bullion rose to $170, buyer 30, fell to $155, rallied to 160, and closed yesterday at $160. Confidence is in better favor, rising from $120 to $136 per share, aud held at the close at $130.

Daney fell from $75 to 37, and sold yesterday at $41. Sierra Nevada has been quite active, and some 2300 shares were sold, rising from $24 to 32, dropping to 23, and closing at $19. Burning Moscow closes at $26; North America at $25; and Exchequer at $39.

The aggregate sales of Stocks, siuce Saturday last, amounted to $972,527.

36 shs Ophir at 310 per foot, r w.
12 shs Ophir at 305 per foot.
72 shs Ophir at 307½ per foot.
36 shs Ophir at 300 per share.
72 shs Ophir at 302½ per foot.
12 shs Ophir at 300 per foot.
96 shs Ophir at 300 per foot, s 3.
6 shs Savage at 1310 per foot.
5 shs Uncle Sam at 195 per foot.
1 sh Uncle Sam at 196 per foot, r w.
5 shs Uncle Sam at 192½ per foot.
3 shs Uncle Sam at 185 per foot, s 30.
6 shs Hale & Norcross at 480 per foot.
6 shs Hale & Norcross at 485 per foot.
20 shs Overman at 192½ per foot.
8 shs Daney at 63 per foot.
24 shs Daney at 62 per foot.
10 shs Daney at 59 per share.
20 shs Daney at 58 per foot.
9 shs Belcher at 500 per foot.
9 shs Yellow Jacket at 1440 per foot.
8 shs Yellow Jacket at 1425 per foot.
1 sh Yellow Jacket at 1430 per foot.
2 shs Yellow Jacket at 1440 per foot, s 30.
1 sh Yellow Jacket at 1450 per foot.
1 sh Yellow Jacket at 1445 per foot.
2 shs Yellow Jacket at 1445 per foot, b 5.
2 shs Yellow Jacket at 1430 per ft, s 30.
2 shs Yellow Jacket at 1450 per foot.
16 shs Gould & Curry at 1100 per foot.
4 shs Potosi at 457½ per foot.
6 shs Potosi at 450 per foot, s 3.
8 shs Crown Point at 1175 per foot.
8 shs Crown Point at 1160 per foot.
16 shs Crown Point at 1150 per foot.
4 shs Crown Point at 1150 per foot, r w.
4 shs Crown Point at 1145 per share, r W
4 shs Crown Point at 1145 per foot.
16 shs Chollar at 490 per foot.
10 shs Imperial at 253 per share.
5 shs Imperial at 252 per share.
15 shs Imperial at 245 per share, s 30.
10 shs Imperial at 250 per share.
10 shs Imperial at 250 per share, r w.
20 shs Sierra Nevada at 28 per share.
20 shs Sierra Nevada at 27 per share.
25 shs Sierra Nevada at 27½ at per share.
20 shs Sierra Nevada at 25 per share, s 16.
20 shs Sierra Nevada at 26½ per share.
5 shs Bullion at 165 per share.
10 shs Bullion, G H, at 155 per share, s 3.
6 shs Bullion at 157½ per share.
42 shs Confidence at 135 per share.
22 shs Confidence at 136½ per share.
20 shs Caledonia Tunnel at 7 per share.

AFTERNOON SESSION.

6 shs Savage at 1300 per foot, s 30.
4 shs Crown Point at 1160 per foot.
4 shs Crown Point at 1165 per foot.
8 shs Crown Point at 1175 per foot.
8 shs Crown Point at 1185 per foot.
24 shs Crown Point at 1190 per foot.
8 shs Crown Point at 1195 per foot.
16 shs Crown Point at 1200 per foot.
5 shs Yellow Jacket at 1440 per foot.
1 sh Yellow Jacket at 1450 per foot, s 10.
1 sh Yellow Jacket at 1445 per foot, s 3.
1 sh Yellow Jacket at 1450 per foot, s 3.
1 sh Yellow Jacket at 1460 per foot.
2 shs Yellow Jacket at 1455 per foot.
2 shs Yellow Jacket at 1450 per foot.

24 shs Ophir at 295 per foot.
60 shs Ophir at 290 per foot.
120 shs Ophir at 280 per foot, s 30.
24 shs Ophir at 29 per foot, r w.
100 shs Daney at 45 per foot.
160 shs Daney at 35 per foot.
100 shs Daney at 40 per foot.
60 shs Daney at 37½ per foot.
140 shs Daney at 36 per foot.
230 shs Daney at 37 per foot.
6 shs Belcher at 870 per foot.
6 shs Belcher at 855 per foot.
3 shs Uncle Sam at 190 per foot.
5 sh Uncle Sam at 189 per foot.
12 shs Imperial at 250 per share.
5 shs Imperial at 252 per share.
5 shs Imperial at 253 per share.
5 shs Imperial at 254 per share, r w.
5 shs Imperial at 255 per share.
5 shs Imperial at 255 per share, b 3.
15 shs Imperial at 255 per share.
10 shs Imperial at 255 per share.
10 shs Imperial at 254 per share, s 10.
10 shs Wide West at 7½ per share.
5 shs Bullion at 160 per share.
10 shs Bullion at 160 per share, r w.
5 shs Bullion at 156 per share, s 3.
20 shs Sierra Nevada at 24 per share.
20 shs Sierra Nevada at 23 per share.
10 shs Sierra Nevada at 25 per share, h 30.
10 shs Sierra Nevada at 25 per share.
5 shs Sierra Nevada ot at 26 per share.
10 shs Imperial at 7 per share.
20 shs Caledonia Tunnel at 6¾ per share.
10 shs Exchequer at 40per share, b 3.
20 shs Lady Bryan at 6 per share.
Amount of sales.....$217,163 00

Friday, September 1.

20 shs Ophir at 275@290 per foot.
116 shs Imperial at 250@255 per share.
31 shs Uncle Sam at 190@189 per share.
11 shs Yellow Jacket at 1435@1440 per foot.
44 shs Chollar at 485@480 per foot.
20 shs Crown Point at 1190 per foot.
26 shs Potosi at 440@442 per foot.
2 shs Hale & Norcross at 490 per foot.
64 shs Daney at 25@40 per foot.
120 shs Daney at 36@37½ per share.
10 shs Caledonia Tunnel at 6¼ per share.
400 shs Sierra Nevada at 20@30½ per share.
5 shs Lady Bryan at 6 per share.
18 shs Dorning Moscow at 27½@25 per sh.
20 shs S F Gas Co at 95 per cent.
$ 5,000 Legal Tender Notes at 73½ per cent.

AFTERNOON SESSION.

150 shs Sierra Nevada at 21@19 per share.
1 sh Uncle Sam at 190 per foot.
60 shs Bnckeye at 6 per share.
4 shs Hale & Norcross at 480 per foot.
60 shs Daney at 37@40 per foot.
10 shs Justis at 15 per foot.
4 shs Yellow Jacket at 1440@1435 per foot.
1 sh Savage at 1295 per foot, s 10.
25 shs Imperial at 256 per share, s 30.
10 shs Imperial at 253 per share.
4 shs Crown Point at 1190 per share.
10 shs Overman at 190 per foot.
35 shs Wide West at 7¾ per share.
Amount of sales.....$132,130 60

New Mining Advertisements.

Continued Mining Advertisements will be found on other pages.

Eagle Quartz Mining Company, Amador County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 29th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
J Arnold	91	5	$1 75
J P Bush	10	100	75 00
J P Bush	11	10	7 50
J P Bush	103	10	7 50
N Blackstone	22	50	37 50
F P Cutter	151	15	11 25
E L Goold	43	50	37 50
E L Goold	113	455	341 25
S P Harris	137	100	75 00
G S Haskell	30	10	7 50
C S Haskell	38	20	15 00
H S Haskell	61	10	7 50
S Henry	93	10	7 50
T E Jones	27	10	7 50
A Lull	124	50	37 50
T Pritchard	36	10	7 50
I Rowell	8	25	18 75
T F Rodley	22	10	7 50
P Robinson	107	84	63 00
F Schell	71	15	11 25
E D Waters	150	100	75 00
E D Waters	18	20	15 00
E D Waters	19	20	15 00
E D Waters	99	83	62 25

And in accordance with law, and an order of the Board of Trustees, made on the 29th day of July, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of Edwards, Olney & Co., 626 Montgomery street, San Francisco, on the 24th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

G. PARDOW, Secretary.

Office, 15 Montgomery Block, San Francisco. sep2 3w

Imperatrice Eugenie Gold and Silver Mining Company—Location of Works: Blue Mountain Mining District, county of Calaveras, State of California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the first day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Baudat, C	217	20	$5 00
Breed, F A	305	5	1 25
Bolcourleith, John	299	10	2 50
Bereon, Adolpho	323	100	25 00
Carnin, J	278	50	12 50
Chanvet, Justin	304	25	6 25
Clark, John	308	10	2 50
Day, T H, Miss	277	10	2 50
Dissit, Antoine	210 211 2 2	150	37 50
Guenette, Eug	294	5	1 25
Hartman, H	225 298 297	40	10 00
Hermster, Geo	310	10	2 50
Lawlor, Geo W	224	10	2 50
Marchand, E	295	35	8 75
Marchebout, A	226	25	6 25
Morrow, Geo	213	25	6 25
Piessala, Adele	34 35 36	75	18 75
Piessala, Henry	37 39 42 44 46 to 61	190	47 50
Pettersoo, John	311	10	2 50
Roth, Louise	292	5	1 25
Soocoberg, L B	258 300 306 309	100	25 00
Sajous, Mario	293	5	1 25
Termo, Louise	312	25	6 25

And in accordance with law, and an order of the Board of Trustees, made on the 1st day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on Tuesday, the 19th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

A. KOENIG, Secretary.

Office, 304 Montgomery street, San Francisco. sep2-3w

La Favorita Mining Company, Moctezuma District, Sonora, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 30th day of August 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 31st day of August, 1865, in United States gold coin, to the Secretary, 429 Sacramento street, San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 30th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 14th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

E. WASSERMAN, Secretary.

Office, 429 Sacramento street, San Francisco. se2

Porter Gold and Silver Mining Company, Virginia District, Nevada,

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of July, 1865, an assessment of five dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at 531 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 14th day of October, 1865, to pay the delinquent assessment thereon, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. W. WESTON, Secretary.

Office, 534 Clay street, San Francisco. jy22

This assessment is re-advertised on account of omission to advertise the delinquent list at the proper time. By order of the Board of Trustees.

C. W. WESTON, Secretary.

San Francisco, September 1, 1865. se2

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicant for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

St. Clair Consolidated Silver Mining Company, Smoky Valley District, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 31st day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares	Amount.
W Beck	39 40	200	$100 00
James Phelan	48	200	100 00
J D Boyd	45	200	100 00

And in accordance with law, and an order of the Board of Trustees, made on the 1st day of September, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction at the salesroom of Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, on the 16th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

AUG. KUNAST, Secretary.

Office, 540 Washington street, San Francisco. se2-3w

New Volume
— OF THE —
Mining and Scientific Press

Issued every Saturday. Each number contains 16 pages and 61 columns (size of Harper's Weekly).

PUBLISHED BY

DEWEY & CO.,

Patent Agents, Publishers and Job Printers, 505 Clay Street, San Francisco.

THE ELEVENTH VOLUME

Of the MINING AND SCIENTIFIC PRESS commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this journal may be anticipated by its numerous and rapidly increasing readers.

We shall continue to devote a large space in our columns to the various and best methods of treating ores and saving gold and other precious metals in every form, furnishing valuable hints to millmen, prospectors, oil-workers and miners generally, not to be found in any other publication.

New machinery, latest inventions and discoveries, and all matters pertaining to the mechanical, manufacturing and industrial resources of the Pacific States, will receive careful attention.

Stock market reports will be published as received from the official records. Our carefully compiled "Mining Shareholders' Directory" will prove a faithful monitor to parties holding stock, and a desirable record for reference to brokers.

Friends pleased with our efforts in the publication of the Press can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and Newsdealers, acting as our agents, will receive liberal commissions.

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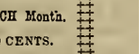
For Yourself and Friends.

Issued at the close of EACH Month.

PRICE..... 50 CENTS.

Pacific Mail Steamship Co.

The following Steamships will be dispatched on the following named days.



September 21—GOLDEN CITY.....Capt. W. F. Lapidge.
Sept. 18—COLORADO.....Captain J. T. Watkins.

From Folsom street Wharf

At 11 o'clock A. M., punctually to the hour,

For Panama.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company

A Baggage Master will be sent through each trip.

Cabin passengers will be berthed for Atlantic steamer.

OLIVER ELDRIDGE, Agent,

Corner Sacramento and Leidesdorff sts.

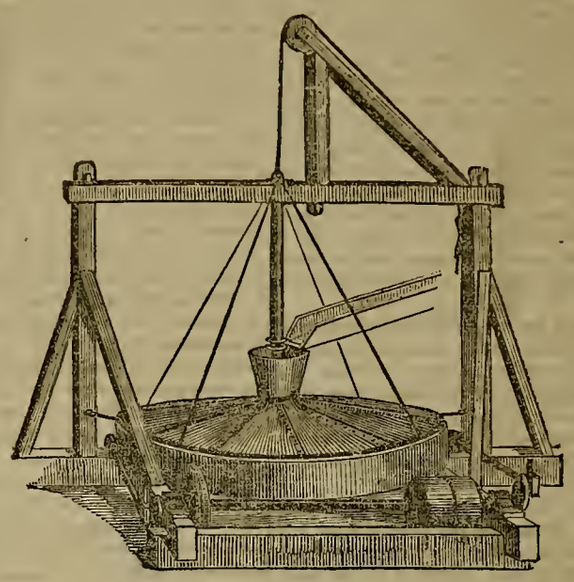
GOLD AND SILVER ORES.

UNDENIABLE FACTS FOR THE MINING PUBLIC.

At the Exhibition in the Fall of 1864, the Mechanics' Institute awarded a Premium to

E B. PRATER,

FOR THE BEST CONCENTRATOR.



The proprietors of this Concentrator feel satisfied that IT HAS NO EQUAL IN USE. Large numbers of these Machines are now in successful operation in all parts of this State, Arizona, Nevada, Colorado and Mexico. The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentroting and saving the sulphurets, and is to be placed behind all or any other machine in use.

One of these Concentrators can be seen in operation at Messrs. Kimble & Murphy's Metallurgical Works, Bryan street, between Third and Fourth, San Francisco.

Circulars sent free, giving description and reference as to working, etc., on application to

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2vll-1am **Express Building, Room No. 3 (fourth floor) San Francisco.**

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FIRE, MARINE AND LIFE INSURANCE,

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LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets	$1,500,000
HOME INSURANCE COMPANY, of New York, Assets	3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets	2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets	1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets	600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets	600,000

CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.

Policies issued on Freights, Cargoes, and Treasure, from and to All Parts of the World. Voyage War Risks taken on Hulls.

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We represent the Oldest and Best Companies in the United States, and offer as favorable terms as any agency on this Coast.

Losses paid immediately on adjustment.

BIGELOW & BROTHER,

17-6m **General Agents.**

From the Daily Fair Press, Saturday, August 25th.

FURNITURE HOUSE OF GOODWIN & CO.

A stranger, visiting San Francisco for the first time, and looking around the city, usually expresses surprise, mingled with admiration, that a community with so brief a history should have arisen to such vast importance in the commercial world. The extent of the city, with its boundaries reaching across from the bay to the sea; and from the promontory that forms its eastern limits, back to the cemetery; comprehending in its embrace thousands of square acres of territory, and over one-tenth of a million of population, is itself a marvel; but when the great amount of shipping in the harbor, the immense trade conducted by its merchants and the superior articles of goods demanded for the Pacific market, are all taken into consideration, the mind is staggered to understand by what process such splendid results are attained, and to dwell with rapture upon the praises of a people who could have accomplished so much in so remote a part of the world, under the numerous local afflictions with which they have from time to time been visited.

Some of our mercantile establishments conduct a business which demands the use of millions of capital annually. We have our extensive importers; our manufacturers in all departments of industry; our inventors; and have become a self-sustaining State, with many articles in excess of the demand, for exportation.

This is a subject that contains a volume of matter. At this time we propose to speak only of one house, which confines its operations to trading in furniture, to give our readers some idea of the enormous consumption in that branch of labor alone.

The furniture establishment of Goodwin & Co. was opened in this city May, 1851, in connection with Geo. O. Whitney & Co. The present firm dates from 1857, and is composed of two persons, to wit: J. P. Goodwin, of San Francisco, and P. B. Holmes, of New York. There are three leading branches to the establishment: one at Boston, another at New York, and the third in San Francisco. The Boston and New York houses do most of the manufacturing for the San Francisco branch; shipping their articles out in the piece, and devolving upon the partner here the duty of putting the goods together, and finishing them up ready for sale.

There are two main salesrooms to the San Francisco branch of the establisbment of Goodwin & Co. One is located on Washington street, at 528, and the other on Market street, 636. There is also a salesroom at Sacramento city, and another large branch at Portland, Oregon. In addition to these places of business, there is a manufacturing house at 508 and 510 on Washington street, with three stories; the rooms having each a frontage of 30 feet by a depth of the entire length through to Jackson street. Each room is subdivided into workshops, with 85 men employed to erect and finish off the furniture. Four or five ladies are employed in the sewing department. The first room in the order of subdivision is used entirely for setting up cabinet work; the second for making and stuffing mattresses, where there are piles of hair, pulu and moss; the third is occupied as a picking department, where, by the use of machinery, the material used for stuffing the mattresses is cleaned; the fourth is devoted exclusively to upholstery; the fifth is the upholstery manufacturing department; the sixth is the rubbing and polishing department; the seventh and eighth, the flowing and varnishing, or final finishing department. All the labor is performed with the regularity of clock-work. An order, no matter how extensive, can be filled in any given time, and the goods turned out in fine condition for shipment.

The extensive cellar of this building is completely packed with furniture in boxes, as they were received from the New York and Boston houses, ready to be finished when the demand renders that operation necessary.

The firm of Goodwin & Co. have also two capacious store-houses on Battery street. One of these (No. 615) contains four stories, including the cellar, all of which are so densely crammed, from floor to ceiling, with furniture, that only a narrow passage-way remains for the removal of the goods.

The second store-room on Battery street (No. 621) contains three stories, every room of which is similarly packed with furniture. It is estimated that these various store-houses contain, at the present time, not less than six hundred thousand dollars' worth of furniture.

The sales of the house of Goodwin & Co., including only the California branches, amount to between six and seven hundred thousand dollars per annum. For the city trade alone they keep six teams constantly running to deliver furniture.

Visitors at the Pavilion of the Fair, are lost in admiration at the beautiful display made by the firm of Goodwin & Co., but it forms a very meagre feature when compared with the elaborately carved, highly ornamented and elegantly finished cabinet-ware which may be seen on taking a walk through the capacious rooms of their splendid establishment.

The reputation of the Goodwin & Co. firm for liberality and honorable dealing, has become well established. Their immense trade is not merely the result of fortuitous circumstance or good luck; but has been built up by industry, close application, and a thorough knowledge of the furniture business in all its various departments. It is rarely that a house can succeed in the conduct of so many branches, with such a vast capital at stake, exposed, as all heavy business houses must necessarily be, to the contingencies of flood, fire, shipwreck and failure, which are daily liable to occur, not only to their patrons, but in a more direct manner, to themselves. Yet this firm has grown and expanded gradually, until its history is such as we have narrated; and has the proud satisfaction of finding itself at this time in the confidence of the people, and with a patronage as extensive as its immense capabilities can well supply.

Artificial Legs.—"Go it, ye cripples; wooden legs are cheap," was a cant phrase when the old style of artificial limb was in vogue, such as formed one of the pedal extremities of Mynheer Vonclam und Peter the Testy. Well they might be cheap, for any good mechanic, with a drawing-knife and handsaw, could make them. Not so with the beautiful artificial leg known as "Palmer's Patent," and for sale by James Jewett, 629 Washington street. A man who uses one was heard to say the other day, that the fit was so exact, the motive power so easy, and the symmetry of these legs so perfect, that if he should lose his remaining "peg," he could part with it with but little regret, knowing how easy it would be to get a better one!

Challenge Accepted.—The proprietors of the Excelsior Pump accepted the challenge issued by Mr. Thomas Hansbrow for a comparison of merits. A trial for supremacy between the pumps of the separate parties, on a wager, will take place as soon as preliminaries can be arranged.

Elegant Printing.—The Commercial Steam Printing House of Francis, Valentine & Co., turns out certainly some of the finest executed job work in the world. The art of printing could hardly be used in more forms of neatness or beauty. Their business cards, bill heads, mining certificates, and cards for commercial houses, exhibit all the rare taste and elegance of style peculiar to the highest perfection of the craft. They print in all colors and modifications of colors, according to the chromatic process and in alternate lines. But to be appreciated their work must be seen, at 517 Clay street. Entrance also at 510 Commercial street.

Family Groceries.—The "corner grocery" is an institution in these days, and in a large city, as necessary as any other comfort which belongs to the family. Every immediate want of the kitchen can be supplied at short notice by calling upon it, and the "pass book" takes the place of small change, in the absence of such currency. C. J. Hawley & Co., 42 Second street, corner of Jessie, advertise to deliver the best of groceries, at cheap rates, in all parts of the city.

[From the Daily Fair Press, Monday, August 28th.]

Elegant Goods.—The ladies must not fail to visit Kirby, Byrne & Co., 7 Montgomery street, if they wish to have their eyes and hearts delighted. The array of silks, satins, dress goods, shawls, cloaks and cloaking, sheetings, linens, and all other elegant fabrics in the dry goods line there to be found, cannot fail to elicit their admiration. Perhaps no finer assortment is to be found in the city, which abounds with the most costly and beautiful of foreign and domestic fabrics.

Photographs.—In the art gallery of the Pavilion, the large photographs of Mr. Wm. Shew attract a great deal of attention and admiration. The countenances which they delineate are natural as life. As parlor ornaments, in the elegant frames where they are set, they are equal to the finest steel plate engravings, while they have the superior advantages of possessing the features and expressions of those who are near and dear to us. The show window of Mr. Shew, on Montgomery street, is an art gallery in itself. His photographic establishment is quite extensive, and we are pleased to know, yields a handsome revenue to its proprietor.

Door and Sash Factory.—The rapidity with which San Francisco extends beyond the sand hills, shows that a vast number of buildings are constantly being erected. These are adorned with all the modern exterior and interior decorations of popular architecture. The doors, windows, sashes, architraves, casings, pilasters, columns, cornices, capitols, and other adjunctive features to the main edifice, in our times, are manufactured separately, and procured to order and pattern. Robinson & Chapman, 30 and 32 California street, are prepared to fill all such orders promptly and handsomely They should be encouraged as "home manufacturers."

In Style.—Passing along Kearny street last evening, we noticed a large crowd of people standing around McGann & Co's hat store, No. 645 Washington street, near Kearny; we rushed furiously to the spot, thinking we had some awful tragedy to record, but fortunately, on inquiring, we learned that McGann & Co. were about to issue their new style of fall hat, for which the excited crowd were leaving their orders. The style is faultless, and no man who cares for his personal appearance will do without one. We advise everybody to call and see for themselves. Don't forget the number, 654 Washington street.

A Rejected Picture.—One of our local artists put himself to some trouble in painting "Rubens' Wife," only to have it rejected, on account of the scant apparel with which he clothed her. Rubens, during his day, was fortunate enough to have had two wives, Isabella Brants and Helena Forment—the last a great beauty. It was Helena, no doubt, that our artist has personated in oil colors. His reading of history must be somewhat defective, if he supposes ladies in the beginning of the sixteenth century, like the Georgia Major, preferred ventilation to respectability, and received calls from their gentlemen friends attired only in spurs and shirt collars!

We would call the attention of our friends and the visitors to the Mechanics Fair to the advertisement of W. G. Weir, furniture manufacturer, in another column. Mr. Weir is one of our oldest furniture manufacturers on this coast; in fact, we may say with propriety the oldest, having commenced in 1858, and carried it on successfully ever since. It is with pleasure that we refer to his efforts in this branch of home industry,—for by his quiet unassuming business manners and practical mechanical skill, in getting up good substantial work, the most prudent consumers *now* give the preference to the home made furniture. Mr. Weir's principal workshop and warerooms are at No. 638 Market street, near Kearny.

Photographic.—A series of views of the interior of the Pavilion were taken this morning by Mr. N. M. Klein, to be photographed.

Gov. Perry, of South Carolina, says when Gen. Johnston surrendered his army he had on his muster roll seventy thousand men, but only fourteen thousand to be carried into battle.

[From the Daily Fair Press, Tuesday, August 29th.]

THE MACHINERY DEPARTMENT.

Heretofore our duties have been of such an incessantly routine character, that we were not enabled to give that attention to separate objects on exhibition at the Fair, that we should be pleased to have done. A mere superficial examination of the machinery department is liable to lead one into the grave error—as we confess it did us—of supposing this branch of industry but poorly represented. The contrary is true, as we have since ascertained, by devoting a couple of hours to the inspection and enumeration of useful inventions under cover of the Pavilion. Last year the heavy machinery was in the main hall of the Pavilion, occupying a conspicuous place; and from the immense bulk of a few of its articles, gave them the appearance of being greater in number than they actually proved to be. The present year the heavy machinery occupies a department specially erected for its accommodation; and although the additional building is spacious, it is found to be quite inadequate to the wants of exhibitors in the various branches of mechanical industry. Many useful inventions have been crowded out and must be sought for in the main Pavilion, where they are found scattered about, occupying such chance places as were assigned them under the pressure of circumstances.

A walk of an hour round the mechanical department, will afford the visitor opportunity to observe that there is a vast amount of machinery represented at the Fair. Practical miners will be pleased to notice the numerous improvements in quartz crushers and processes of amalgamating ores. He will have an opportunity to witness the performances of the various mills and pans, among which are Bargion & Johnson's Eureka Crusher, Hinkle's Amalgamator, Strong's Union Amalgamator, Baux & Guiod's Separator and Amalgamator, Hunter's Concentrator, Amalgamator and Separator, Brodie's Crusher, Rix, Logan & Co.'s Hammer Battery, Hauscom's Crusher (two models), Knox's Amalgamator and Separator, Varney's famous pans, Prater's Concentrator, Beach's Improved Quartz Grinder, Stetson's self-operating Amalgamator, the Excelsior Grinder and Amalgamator, and Bruckner's immense furnace for roasting ores. There are several splendid pumps to be seen—Hansbrow's celebrated Challenge Pumps (several patterns), Hooker's Patent Excelsior Pump, which he is willing to match against the Hansbrow invention; Harrison's Eccentric Pump, which throws a fearful stream of water; Stoddard's Steam Pump, P. Donahue's Safety Steam Pump, and Fire Engine and Paxon's Garden Pump. There may be found also, the Turbine Water Wheel (various sizes), Tyler's Improved Water Wheel, Low's Grain Separator, Hunter's Grain Separator, the splendid steam engine from the Union Foundry of Booth & Co., which propels the heavier machinery; a smaller sized double piston engine (beautiful model), from the Vulcan Iron Works, which assists in propelling the Fair machinery; Dougherty's saw for sawing soapstone; Doane's Improved Portable Hay Press, Mock's Rotary Folding Hay Press, Steen's Engine, on a new principle, from the Novelty Iron Works, White's patent Boot Blacker, Hecker's Lathe for turning iron and a turning machine to manufacture pins for ship carpentering.

In the main hall there are numerous ingenious inventions, smaller in bulk and more elegant in finish, than those we have named. Among these may be named Squarza's Improved Faucet, Squarza's Essential Oil Extractor, Frink's Improved Soda Fountain, several small models of steam engines, self-coupling cars, a life raft, a machine to peg boots with brass screws, etc., etc. There are four or five wine and cider presses, several washing machines, two or three patent clothes wringers, patent stoves, lamps, etc., etc., to say nothing of the sewing machines, which are always objects of interest.

Let no one who visits the Fair, and expects to be profited, fail to look around among the machinery. Other objects may be more beautiful, but these are of greater practical utility.

SIMPLE BUT EFFECTIVE.

At the present time when the whole mining interest of the State is suffering from the effects of a well founded complaint that the cost of extracting the metals from their ores leaves but a small margin for profits, in consequence of the insufficiency of the processes employed for their extraction, the discovery of any method or any machine that will remove the cause of this complaint, becomes a matter of great importance, not only to those directly concerned in mining operations, but to the people of the Pacific coast generally.

Baux's first premium Separator and Amalgamator is, by many, regarded as the nearest approach to perfection, in this requirement, yet introduced. Simple in its operation, constructed on principles the soundness of which are apparent to every one competent to compare the cause of an action with its effect, its results are demonstrative of its efficiency. Though but little more than a year since first introduced, it has been thoroughly tested in various parts of this State and Nevada, and with every description of ore—from adamantine quartz, containing coarse gold, to the difficultly managed tight sulphurets and chlorides and other complex ores of silver; and in every place where it has been used, we are told, it has given the fullest satisfaction—to the validity of this claim the increasing orders for these pans testify. We think nothing more conclusively demonstrates the correctness of the principle on which Baux's Separator and Amalgamator is constructed, than the fact, which is so very apparent at the present exhibition, that while all the best of the pans —those made by the most famous inventors— have been changed more or less to conform to the principles forming the chief characteristic of this invention, namely, to prevent the mercury being ground with the ores. Baux's Separator and Amalgamator remains unchanged in every essential particular.

It is claimed for Mr. Baux, who is a learned French mathematician and machinist, who first demonstrated the advantage of retaining the mercury on the outer edge of the pan— and by the centrifugal motion of the mullers to inject the particles of metal into it for amalgamation, a principle so correct and effective that the wonder is that it had never been discovered before.

We have made many inquirers in relation to these pans, from millmen and miners in various parts of the State in which they are in operation, and the general reply has been that they are what their inventor claims for them— one of the most simple and effective amalgamators ever introduced. In that section of Nevada County in which are located those rich deposits of hard cement containing gold, known as the blue gravel lead, many claims that could derive no profit by working this cement with ordinary mills and pans, are extracting large quantities of gold with Baux's Amalgamator.

At Maltman's celebrated chemical works, near Grass Valley—where hundreds of tons of sulphurets are annually operated upon to obtain their gold by the chloriation process—this pan has made the product of the operation considerably larger. At Gold Hill, Nevada, where a number of these pans have been used for months—on trial in every case the mill-owners have ordered sets of them—till at present the orders from Nevada alone reach nearly seventy. At a meeting of a number of mill-owners assembled for the purpose of testing the efficiency of the various pans at present in use, Baux's Amalgamator and Separator obtained two and one half ounces of amalgam from 400 pounds of pulp that had passed through a famous pan—which grinds the mercury with the ore! Comment on such a fact—which may at any time be tested—is quite unnecessary. We are not writing this article to extol Baux's Amalgamator and Separator beyond its merits, or to disparage any other pan, but to convey information to our readers on an important subject, and as an act of justice to the inventor of a really valuable machine.

EDITORIAL BANQUET.

The Executive Committee of the Fifth Fair of the Mechanics' Institute, anxious in some manner to testify their appreciation of the efforts made by the press of this city to advance the interests of the Fair, extended to its representatives, on Monday evening, at the Pavilion, a grand banquet. Some thirty or forty guests were present, exclusive of the Committee, and inclusive of the members of the editorial fraternity. Mr. Charles M. Plum, President of the Institute, presided at the head of the table. The *Bulletin* was represented by Messrs. Snow and Gross; the *American Flag* by Messrs. Bennett, Wilson, and L. P. McCarty; the *Call* by Mr. McGrow; the MINING AND SCIENTIFIC PRESS by Mr. Ewer; the press at large by Messrs. Campbell and Bausman.

At eleven o'clock, P. M., the guests were seated to as sumptuous and savory a repast, we venture to say, as has ever been served in this city on any occasion at all similar. The caterers were Messrs. Swain & Brown, of the branch restaurant of the Pavilion.

After the removal of the cloth, cigars, "champagne and cognac" were introduced. The genial influence of these inspiring liquids soon manifested itself. Gentlemen who professed not to be eloquent or gifted with vocal powers, discovered that they had somewhat underrated their own abilities. Sentiment, wit, eloquence, and song, were the consequence. Measured utterance and frigid courtesy were soon changed to convivial mirth and enjoyment; corks popped, glasses rattled, and the toast, the speech and the song, went round until an hour that might have been termed decidedly late, when the company reluctantly separated with expressions of mutual respect—protesting officially, individuality and collectively, that a more delightful occasion had never been experienced, than that to which the night and the generosity of the Executive Committee of the Fair had given birth.

CIDER VINEGAR.—Families who make their purchases indiscriminately, are subject to have impositions practised upon them of all kinds, and in nothing more than the article of vinegar, of which there are many spurious and poisonous brands in the market. Muriatic acid, combined with coloring barks, in numerous instances, form the base of these poisonous vinegars; and when they are consumed incautiously, produce nausea at the stomach, followed by vomiting, and it may be permanent sickness, if not death. The importance of procuring vinegar in its purity, it will thus be seen, cannot be overrated; and in that view, we cordially recommend an article manufactured by Mr. Wheeler Martin, southeast corner of Second and Howard streets, from pure cider, as not only entirely innocent in its effects, but nutritive, if vinegar in any form can be said to possess nutritive qualities.

THE RECEIPTS.—The gross receipts of the Fair, including Monday evening, amount to $21,890.40.

[From the DAILY FAIR PRESS, Thursday, August 31.]

DUNBAR'S SELF-ADJUSTING STEAM-PACKING. Samples of this valuable article will be found on exhibition near the large engine at the Pavilion. In fact it is used in the very cylinders of that grand motor. As we have before stated, this packing is not a new thing, it having been extensively used throughout the United States, and is generally acknowledged by engineers, who have the most practical information of its working, to be the best in use. It works well in the cylinder, with less friction than the old style of packing, never leaks, and is easier adjusted. It is fitted in so as to leave no ridges, each piece lapping over the other. The saving of fuel by the packing is great, and as an important auxiliary to steam engines has a renowned reputation. One of its superior points is the fact of its fitting itself by wire so completely to its position, notwithstanding any little deficiency which may exist in the smoothness of the piston to which it is applied. It is exhibited by Henry S. Smith, of the Golden State Iron Works, whose advertisement appears on our last page to-day.

HUNTER'S CONCENTRATOR, AMALGAMATOR AND SEPARATOR.

One among the first objects of interest that arrests the attention of the visitor to the pavilion of the Fair, in the department of machinery, is the above-named machine, invented by Mr. Andrew Hunter, of San Francisco. To miners and millmen, it possesses virtues which commend it in an especial degree, and it is more particularly to the attention of such that it addresses itself.

The advantages claimed for this machine over all others by its inventor are: simplicity of construction; adjustability for all the different kinds of metals, for fine or coarse sands or pulp; the complete separation of the sands from the free gold and the sulphurets, each being deposited in their proper place; and the small amount of power required to run them— one-sixth of a horse-power being sufficient for one machine.

The capacity of this machine is equal to the working of seven tons of crushed rock per day, being an amount equal to the working of a five-stamp battery. It saves all the sulphurets, free gold, and wasted amalgam, on its copper plates, without any appreciable waste. One cubic foot of tailings from the concentrator, carefully panned out by hand, gave one-fourth of an ounce of very fine sulphurets and sands, which amount was found, upon assay, to contain two-fifths of clean sulphurets; indicating that the loss of sulphurets per cubic foot of tailings from the concentrator was about one-tenth of an ounce.

This machine was patented May 23d, 1865, and has been thoroughly tested in the Princeton Mill, working the full amount of rock above mentioned, and furnishing in every particular the highest satisfaction. The public have a fair opportunity to examine the sulphurets extracted from the tailings at the pavilion. We have been shown zinc sulphurets from a hundred pounds of tailings sent from New York to be worked on this machine. The result was certainly all that could have been expected, and, as we are assured, met with the unqualified approbation of those who were having the test performed.

As Hunter's Concentrator, Amalgamator and Separator is now being built, the plates are two and a-half feet wide by five feet in length, giving twenty-five square feet of copper plate in front of each battery. Those who are familiar with the different processes of working mineral-bearing rock, and have witnessed the results obtained by this machine, have spoken of it in the highest of praise. Our innumerable mines of silver, gold and other valuable ores, can only be brought into the market and made to yield a profit by modes of working which will insure a saving of all, or nearly all, the mineral contained in the rock. There have been a large number of machines before the public professing to attain this end; but trial has proved that they were inadequate for the purposes intended, and they have been abandoned. In fact, the history of *failure* has so often been written that a piece of mechanism of real merit now finds difficulty in finding lodgment in the public favor. This is very natural; but the inventor of this machine speaks with such confidence of its abilities, and exhibits such incontestible proofs of its superiority, that we are bound to believe it all that it professes, and therefore hope that neither he nor we, nor the world at large, may be disappointed. An amalgamator that will save two-thirds of the gold or silver in rock, is a great benefit; but that which will save all that is otherwise wasted—as Mr. Hunter contends this machine will—is a positive blessing.

VISIT FROM THE SCHOOLS.—The pupils of several of the public schools made a visit to the Fair yesterday. Mr. Stratton, who commanded the brigade (which numbered several hundred children of both sexes), took occasion, after forming the scholars in line, to address them a few words of caution about handling the goods, and then led them to all parts of the spacious hall where objects of interest were to be seen. Aunt Susan, of the New England Kitchen, entertained a portion of the children at her tables, and had occasion to compliment them on their good behavior.

COTTON MANUFACTURING.—Speaking of this business, the Newburyport *Herald* says it has not been so good for a long time as now. There is not a spindle or loom in the country that would not be put in motion if skilled labor could be had for that purpose. Some of the mills in Lowell and other places are at a stand-still for want of help, and three hundred operatives are needed in this city to day. The help cannot be had, though the mills are sending runners all over the North and into the British Provinces to collect them, and weavers earn a dollar a day. Weavers are most in demand; other departments can more easily be supplied. It is calculated that one-third of all the weavers have died, been married, or otherwise passed out of the business since the war began, and the factories have ceased teaching others. Some have gone into the woolen mills, or learned to run sewing machines in the shoe, hat, and clothing factories, and others have been taken in other ways, so that not more than half a supply can be had. If the mills could have help as the business now is, they would soon make up for the losses of last Winter.

A LOOK INTO THE FUTURE.—In the debate in the House of Representatives on the Niagara Ship Canal, Mr. Littlejohn concluded his speech as follows: "Now, sir, twenty-five or fifty years hence, from the Atlantic to the Pacific, will be a continuous tier of States, members of the Union, and over those States will run the iron horse of the Pacific Railroad. Members who reside on the far western coast have also an interest, then, in this highway. The products of Asia, wafted over the Pacific ocean, and then by rail can be shipped upon the waters of Lake Michigan, and pass to the Atlantic by this great improvement, and the merchandise of Philadelphia, Baltimore, of New York, of Boston and of Portland, will be sent westward over these waters, and will find a way to the coast of the Pacific, and even to China and India, for sale and consumption. And not only that, sir; the time is coming, within the next half century, when this republic will dictate laws, not only in the arts and sciences, but in pecuniary matters, to the whole world. The moneyed center of the whole world is to be transferred from English to American soil, if we are but true to ourselves and use and develop the resources and advantages bountifully bestowed upon us by nature. England must abandon her lines of communication with her eastern possessions and become tributary to the lines we propose to construct between the Atlantic and Pacific. Her business men and emigrants seeking China and India must cross our continent and pay tribute to our enterprise and the genius of our institutions."—*Traveler.*

THE WINE BUSINESS.—The wine business of the State is rapidly on the increase. The grape crop, especially in the vicinity of Los Angeles, is said to be better than it was last year, yet so great is the demand for grapes for the purpose of making wine, that they are selling on the vines this season at $1 25 per hundred pounds, while last year the maximum price was only 50 cents per hundred. So far as this State is concerned, it is stated as a fact that the native wines have pretty near driven all the cheap foreign wines out of market. In addition, the demand for California wines in the Eastern States is said to be rapidly on the increase. If it were not for the high rates of money in this State, the production and export of our wines would be trebled in three years. As it is, the business shows a gratifying increase.

THE WEALTH OF TRINITY CHURCH.—Trinity Church, New York is about to come once more into possession of its landed property, and its rent will enable the society to get along quite comfortable. The land originally covered 2,098 city lots, of which, since 1848, 318 have been given away, 1,059 have been sold, 691 are still owned by the church. Most of these lots are leased to other parties, but the lease will soon expire, and Trinity will then have about $20,000,000 worth of real estate. John Jacob Astor was shrewd enough in 1776 to obtain leases of 336 of these lots for ninety-nine years at 75 cents a year for each lot. It has been a very pleasant amusement lately for Mr. William B. Astor to pay over annually $252 to Trinity and receive for the use of the property about $168,000. But Mr. Astor's leases will expire next year, and he will not be able to renew the leases on such favorable terms.—*Hartford Post.*

THE *Frontier Scout* is the title of a little newspaper just started at Fort Rice, Dacota Territory, by the officers of the garrison: Captain E. G. Adams, editor. It is the only paper published within thirteen hundred miles of that point.

THE operative carpenters and joiners in London are endeavoring to obtain an advance the present rate of wages—33s. per week, 7d. per hour.

During the Fair

We hope the readers of the MINING AND SCIENTIFIC PRESS will look with leniency upon any degression they may observe from the usual contents and make-up of our journal. Correspondents will also please bear patiently with the crowded state of our columns in giving full reports of the Exhibition.

OUR PAPER BY EXPRESS.—Owing to the fact of Wells Fargo & Co requiring publishers to pay 2½ cents per copy in advance on papers sent to subscribers in the interior we are obliged to make our subscription terms by express $6.50 per annum.

[From the Daily Fair Press of Wednesday, August 30.]

TRIAL TRIP OF THE FIRST HOME BUILT LOCOMOTIVE, "CALIFORNIA."

The trial trip of the splendid new locomotive, manufactured at the Union Foundry of Messrs. H. J. Booth & Co., made this morning on the route of the San Francisco and San Jose R. R., affords an opportunity, while noticing the excursion, to say a few words in relation to the establishment where it was fashioned, Of late years, such a degree of perfection has been arrived at on this coast, in the construction of all kinds of machinery, ponderous and otherwise, that we have not only ceased to look to the Eastern cities for our supplies, but to regard their manufactures of inferior quality, as compared with similar articles turned out from our own workshops. The extensive works of Messrs. Booth & Co., are located on First street. The buildings cover a large space of ground, in which their own castings are made, and their own work performed in all the departments necessary to build a steam engine, a quartz mill, a water-wheel, an amalgamator, a force pump, or any and all other kinds of iron, brass or copper mechanism from the crude material, and with a compactness of form, extent of power, durability of parts, and elegance of finish, nowhere to be surpassed.

The last, and perhaps the grandest, triumph of mechanical skill emanating from these works, is the immense locomotive, turned out a few weeks ago, and which to-day made its trial trip on the track of the San Jose Railroad.

The cylinders of this locomotive are 16 inches in diameter, with a 24 inch stroke ; the driving wheels 5 feet in diameter, length of locomotive 26½ feet over frame; diameter of boiler 44 inches, containing 141 two inch tubes, 11 feet in length ; total weight of locomotive 30 tons. The manner of fastening the cylinders to the frames is entirely new ; they being so placed that they can at any time be removed without interfering with other working parts of the machinery. The adoption of this plan is original with Messrs. Booth & Co. The locomotive is supplied with a cone grate, used to prevent the heated coals from scattering along the track. The best of material has been used in its manufacture, and great care has been exercised, that its workmanship and finish should be perfect in every respect. It is no egotism for the builders to claim for it superiority over the Eastern build of locomotives ; for our California mechanics rank among the best on the continent.

The train, comprising three fine passenger cars besides an elegantly arranged smoking car, dashed off in splendid style at half-past ten. The party invited consisted of between two and three hundred ladies and gentlemen among whom were Gov. Low, ex-Gov. Stanford, the President of the Central Pacific R. R., H. M. Newhall, President of the San Jose R. R., and other prominent guests. A fine band of music was also in attendance.

The train proceeded to the big trees, some 30 miles, where the liberality of Messrs. Booth & Co. prepared a fine banquet, with an abundance of creature comforts, well flanked with good cheer, to which, after a little exercise on the light, fantastic toe, the company sat down with a good appetite. After the wines were properly disposed of, the health of Mr. Booth was proposed by Dr. Isaac Rowell, who, after making a few appropriate remarks, introduced Gov. Low.

The Governor, in the course of his remarks, paid a deserved compliment to Messrs. Booth & Co., as the builders of the first locomotive proper, which has ever been constructed in California, and the performance of which today has most agreeably surprised every one of the large company who were witnesses of her trial trip, and among whom were some of the first mechanics in the State.

Gov. Low was followed by ex-Gov. Stanford, H. M. Newhall, Prest., and J. T. Doyle, Vice Prest. S. F. & S. J. R. R., I. M. Scott, under whose supervision this splendid specimen of mechanism has been built, Mr. Bishop, the mechanical superintendent of the road, and several other gentlemen. Gov. Stanford gave us much practical information about the progress of the Pacific R. R., and Mr. Scott concerning the building of locomotives in California, which we hope to present our readers at an other period.

The time was thus delightfully and profitably spent, until word was given that the train was ready for the return trip.

The engine was under the management of Mr. Bishop, than whom no better engineer or mechanic can be found in the State. During his speech he told us that on the return he should prove her capacity to drive the train at the rate of sixty miles an hour. He did better, and at one time drove it two miles in 108 seconds—a fraction over sixty-six miles an hour, making the best time yet accomplished this side of the Rocky Mountains. Thus happily our first locomotive proved perfect, and nothing occurred to mar the harmony or pleasure of the excursion.

Had not the necessities of the Company required that this engine should be placed immediately on the road, it would have been allowed to occupy a place in the Pavilion during the present Fair ; although that could not be, it is still none the less a portion of the mechanical exhibition of our State for the present year ; and as such shows a most notable degree of progress, and may be looked upon as the inauguration of a branch of business in that direction, which is soon destined to become second to no other on the Pacific coast.

We regret that time will not allow us to speak more at length on the occasion of this important era in the mechanical history of our State, but as it is we must be content to give thus briefly the first printed report of the trial trip of the first regularly built California locomotive.

THE Colfax party will carry home with them to the Atlantic States, specimens of those splendid mammoth blankets made at the San Francisco Mills, with cloth to make each a couple of suits of clothing beside. These mementoes of California skill, we are informed, were presented by Mr. McLennan, one of the proprietors of the mills, and a gentleman famous for his generosity. They will not suffer in comparison with similar fabrics manufactured in any other part of the known world.

THE FIRST CALIFORNIA MADE WATCH ON EXHIBITION.—We would call the attention of our readers to this exquisite piece of workmanship, consisting of a lever watch, made byMr. N. F. Mitchell, of this city. It is made from nickel ware, is full ruby jeweled, and may be found in the Art Gallery of the Pavilion. Mr. M. deserves great credit for this fine specimen of mechanism, and we trust that he will receive more than a passing notice at the hands of the committee.

ARRIVAL OF OIL FROM THE SOUTH.—Three hundred gallons of oil from the Minnie Lottie Petroleum Co'e springs, Los Angeles county, came upon the steamer Pacific last evening. This oil, it will be remembered, assays lubricating oil, 94.53—5.47 waste. This is the first shipment of oil from the south, and will, in all probability, somewhat divert public attention, which has heretofore been engrossed by Humboldt, in that direction.

LET US HAVE A TRIAL.—We have conversed with a number of the prominent pan and amalgamator proprietors, at the Pavilion, and all seem willing for a fair test of their machines. We hope the managers will take the matter in hand and immediately arrange for a general trial of mining machinery.

THOSE who talk most, generally talk to the least purpose. In society the greatest boree never strike oil.

From the DAILY FAIR PRESS, Friday, September 2.

HUNTER'S GRAIN SEPARATOR.

The importance to millmen, farmers and even dealers, in having the grain which they use or handle free from all kinds of foreign matter, is so self-apparent that no argument is required to establish the proposition. This cleansing process, which might, as a matter of necessity, be dispensed with in the mere handling of wheat, becomes indispensable when the wheat comes to be manufactured into breadstuffs. The question then arises as to the best, cheapest, and most convenient method of effecting this object of cleansing it. The many great improvements in all the other features of milling, renders it important that they also should be simplified, in order to dispense, as far as possible, the accumulated human labor. Several recent inventions have claimed to meet this object, without, as the inventor maintains, coming so fully up to the design as the machine of which we are speaking. Its capacity for cleaning is rapid, and can be regulated to suit the working results of the largest mills in use. Its simplicity of construction is such that it is impossible for it to get materially out of repair, and it requires no more power to work it than can be exercised by a boy of fifteen years of age. The power can be applied by hand, through the medium of the crank, or in any of the simplest modes usually adopted about the steam engine; several late improvements have been put upon the machine, by which its adjustment is greatly simplified.

Having been invited, by the inventor and proprietor, to witness the working of the machine, we speak from observation when we say that it operated to a charm. The wheat run through the machine—or rather, what seemed to be wheat—was about one proportion of wheat to three of barley, two of oats, and the balance in mustard seed and refuse. The separation was most complete. The whole grains of wheat fell into one compartment, arranged for its reception; the barley into another ; the oats into another ; the chess and imperfect grains of wheat into another, etc., illustrating in a positive manner, that the machine was what it professed to be—a Grain Separator. This result appeared the more remarkable from the fact that the material run through the hopper was a mass of *stuff*, rather than of grain ; and yet the wheat came out almost as completely distinct as though it had been picked out with the fingers.

The proprietor claims that it cleans more perfectly than any other machine on the Pacific Coast, while it sells for about one-half the price. A machine of his invention and manufacture, for a farmer's use, costs from $100 to $125, and for mill use, from $125 to $200 ; cleaning from one to two bushels of wheat per minute.

It will pay the visitor to the Pavilion of the Fair to examine this machine. It is of San Francisco origin, and must be admired for the facility and thoroughness with which it performs its work.

BRADLEY & RULOFSON'S PHOTOGRAPHIC DISPLAY.—Visitors at the Fair should not fail to examine the immense display of photographic pictures made by Bradley & Rulofson, the celebrated photographers. It is remarked that the collection of pictures exhibited by this well known firm is the largest and finest ever exhibited on the Pacific coast, and it is not only a credit to the enterprising artists whose handiwork they are, but an honor to our young and flourishing State. Many of the pictures are of distinguished citizens whose features are well known to the public. · Bradley & Rulofson invite the closest scrutiny and most critical inspection of their works of art, and well they may. Their productions do not appear to be the dull inanimate shadow, but the living person, and so perfect is the illusion that one instinctively leans forward to catch the words which apparently are about to be spoken. Every family should provide itself with a picture of each of its members, from the gallery of Bradley & Rulofson, which, as a constant reminder of the loved one, excels any other keepsake which can be devised. Their gallery is on the southwest corner of Montgomery and Sacramento streets, where visitors are always attended to personally by the renowned artists themselves, who guarantee in all cases to produce pictures,

"With skill so exquisitely wrought,"

as to give the most perfect satisfaction, and at such moderate prices as to bring them within the means of all.

FAILED TO AGREE.—At the meeting to-day, for arranging the preliminaries for a trial between the Hansbrow and Excelsior pumps, the proprietors failed to agree, the difference between the proprietors, we understand, being in regard to the kind of power to be employed—Mr. Hansbrow adhering to man power, and Capt. Cushing demanding steam, or other measurable power. We are sorry the trial was not arranged for. The public are anxious to see the power of these two rival pumps tested. Capt. Cushing now offers a challenge for any pump in the State of California, for the sum of $1,000.

AN ingenious pocket time-piece. "warranted to denote time correctly," is selling in Loudon for a penny.

LAWRENCE & HOUSEWORTH.—Of all our business houses, none has added more to the attractions at the Pavilion of the Fair than this. Their stereoscopic views have occupied a prominent position in the Art Gallery, and have never, from the time they were first introduced, remained five minutes of time without being occupied by visitors. Their other goods on exhibition have been equally objects of admiration. Notwithstanding the many beautiful and interesting articles they expose to view in their show-case, these form a very meager collection in comparison with what may be seen at their store, 317 and 319 Montgomery street. Optical instruments are their specialty; comprising spectacles, opera glasses, microscopes, magnifying glasses, surveyors' instruments, field glasses, etc., etc.; and then comes their stereoscopes of all sizes and descriptions, with thousands of views of the finest of California scenery, spirited caricatures, landscapes, historical personages, and incidents, groups, mountain lakes, views, and such other pictures and portraitsree as may possess a special or general interest to the public. Their extensive stock also includes engravings, photographs, cutlery, globes, and fancy goods of numerous kinds ; consisting, in the aggregate, a museum of elegant, useful, and ornamental goods, suitable to the California market and calculated, in some one or other particular, to please almost every taste, crude or cultivated. The visitor wishing to add to the ornaments of his center table or parlor ; the student seeking for information ; the surveyor or mariner in want of a superb sextant, compass, or telescope, the admirer of of the beautiful, and the professor of the useful, can each be suited, by calling at the establishment of this firm, if not in every case to purchase, in all at least to admire the many articles of skillful workmanship with which their shelves and show-cases are filled.

CORSICA.—A great portion of the immense quantity of honey consumed in France is supplied from Corsica and Brittainy. Corsica produced so much wax in ancient times that the Romans imposed on it an annual tribute of 100,000 pounds weight. Subsequently the inhabitants revolted, and they were punished by the tribute being raised to 200,000 pounds weight annually, which they were able to supply. Wax is to honey in Corsica as one to fifteen, so that the inhabitants must have gathered 3,000,000 kilogrammes of honey. When Corsica became a dependency of the papel court, it paid its taxes in wax, and the quantity was sufficient to supply the consumption not only of the churches in the city of Rome, but those in the papal States. Brittiany likewise supplies a great quantity of honey, but of an inferior quality to that of Corsica. The annual value of the honey and wax produced in that province is estimated at 5,000,000.

ITEMS WORTH COMMITTING TO MEMORY.—A bit of glue dissolved in skim-milk and water will restore old crape. Hull a cranberry bound on a corn will soon kill it. An inkstand was turned over upon a white table cloth ; a servant threw over it a mixture of salt and pepper plentifully, and all traces of it disappeared. Picture frames and glasses are preserved from flies by painting them with a brush dipped into a mixture made by boiling three or four onions in a pint of water. Bedbugs are kept away by washing the crevices with strong salt water, put on with a brush. Soft soap should be kept in a dry place in the cellar, and not be used until three months old.

NOT SO GOOD.—A young gentleman was paying special attention to a young lady, and one day a little girl, about five years old, slipped in and began a conversation with him : " I can always tell," said she, "when you are coming to our house." "You can!" he replied ; "and how do you tell it?" "Why, when you are going to be here sister begins to sing and get good ; and she gives me cake and anything I want, and she sings so sweetly—when I speak to her she smiles so pleasantly. I wish you would stay here all the while ; then I would have a nice time. But when you go off sister is not so good. She gets mad, and when I ask her for anything, she slaps and bangs me about." This was a poser to the young gentleman. "Fools and children tell the truth," quoth he ; and taking his hat he left and returned no more.

ZINC AND IRON.—A mixture of zinc and iron heated with ammonia and ammoniacal salt, rapidly disengages hydrogen, the reaction being tumultuous as the temperature rises. Nitrate of ammonia, however, in dilute solution, submitted to the same treatment, yields protoxide of nitrogen.

A GREAT flood in the district of Bertbier and Sorel, in Canada, recently, swept away houses, barns and stock, and drove the inhabitants into the tall trees. Many lives were lost.

San Francisco Stock and Exchange Board.

SAN FRANCISCO, September 21, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ 74	$ 75
Gov. Legal Tender Notes	73	73½
State Bonds, 7 ₱ cent	85	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	..	..
San Francisco Bonds, 1858, 6 ₱ cent	65	70
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	50	55
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	..
Butte County Bonds, 10 ₱ cent	78	..
California Navigation Co	81	84
State Telegraph Stock	30	35
San Francisco Gas Co	95	96½
Sacramento Gas Co	86	..
Spring Valley Water Co	51	51½
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	..	..
Central Railroad Co	..	..
North Beach and Mission	40	41
MINING STOCKS.		
Ophir	$ 280	$ 285
Gould & Curry	1150	1200
Empire M & M. Co	375	390
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	1275	1300
Chollar	480	485
Potosi	440	445
Hale & Norcross	480	482
White & Murphy	....	....
Sierra Nevada	20	21
Daney	....	....
Burning Moscow	26	27
Lady Bryan	6	7
Sacramento & Meredith	....	....
Burnside	....	5
Iowa	....	....
El Dorado	....	....
North American	20	25
Baltimore American	15	20
Yellow Jacket	1440	1450
Overman	190	195
Cedar Hill Tunnel	....	....
Wide West	6½	7
Crown Point	1190	1200
Antelope	....	....
Emeralda	....	10
Etna	....	....
Real del Monte	12	15
Silver Hill	....	....
Utah	....	....
Justis	15	25
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co	....	35
Mokelumne and Stanislaus	....	....
Shelta	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H.	155	160
Buckeye	....	....
Dick Sides	....	....
Imperial	255	257
Alpha	1800	1900
Bajazett	..	....

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	55@ 60
do pickled ₱ lb	40@ 50
do Oregon	30@ 35
do New York, ₱ lb	30@ 35½
Cheese, ₱ lb	20@ 22
Honey, ₱ lb	40@ 60
Eggs, ₱ doz	55@ 60
Lard, ₱ lb	25@
Hams and Bacon, ₱ lb	20@ 25
Cranberries, ₱ gal	75@
Potatoes, sweet, ₱ lb	3@ 5
do Irish, ₱ lb	2@ 4
Tomatoes, ₱ lb	5@ —
Onions, ₱ lb	6@ 6
Apples, No. 1, ₱ lb	3@ 6
Pears, table ₱ lb	3@ —
Plums, dried, ₱ lb	10@ 15
Peaches, dried, ₱ lb	10@ 15
Grapes, Foreign, ₱ lb	20@ 40
Oranges, ₱ 100	2 50@ 3 00
Lemons, ₱ 100	6 00@ 6 00
Chickens, apiece	75@ 1 12

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	5 50 @ 6 50
Do Superfine	5 00 @ 6 75
Corn Meal, ₱ 100 lb	@ 4 00
Wheat, ₱ 100 lb	1 80 @ 1 75
Oats, choice, ₱ 100 lb	1 50 @ 1 65
Barley, ₱ 100 lb	1 00 @ 1 05
Beans, ₱ lb	3 @ 4 00
Potatoes	85 @ 1 00
Hay, ₱ ton	10 00 @14 00
Live Oak Wood, ₱ cord	8 00 @10 00
Beef, on foot, ₱ lb	8 @ 10
Beef, extra, dressed, ₱ lb	16@ 22½
Sheep, on foot,	1 00@ 2 00
Hogs, on foot, ₱ lb	8 @ 12
Hogs, dressed, ₱ lb	12 @ 15
Groceries, Etc.	
Sugar, crushed, ₱ lb	18 @ 18½
Do China	10 @ 12½
Coffee, Costa Rica, ₱ lb	22 @ 23
Do Rio	22 @ 23
Tea, Japan, ₱ lb	85 @ 95
Do Green	70 @ 90
Hawaiian Rice, ₱ lb	@ 10
China do.	8 @ 10
Coal Oil, ₱ gal	1 25 @ 1 30
Candles, ₱ lb	20 @ —
Ranch Butter, ₱ lb	45 @ 55
Isthmus do	30 @ 33
Cheese, California, ₱ lb	20 @ 26
Eggs, ₱ doz	55 @ 60
Lard, ₱ lb	23 @ 25
Ham and Bacon, ₱ lb	23 @ 25
Shoulders	15 @ 18

DIET OF THE FRENCH WORKMAN.—He is up at dawn; in fact, everybody rises early in France. There is more business done before ten o'clock, in Paris, than there is in London before eleven. There are two places where breakfast may be had—the *cremerio* and the soup-shop. Some excellent coffee, with milk, costs less than one and a quarter pence; and the bread, with butter, one penny. For dinner, the soup will cost one and a half pence; the plate of meat, two pence; half a bottle of wholesome wine, four pence; or a quarter of a bottle, two pence; or a pint of beer or milk two pence—and all of a really good quality. In many places they give soup, a piece of mutton, or *boeuf a la mode*, bread and a half bottle of wine, for sixty centimes, or about eleven cents of our money.—*Traveler.*

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment, Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and all other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Alpha, Gold Hill	$90	Aug 26	Sept 27
Alpha, Gold Hill		Special Meeting	Sept 28
Arizona Copper, Arizona	10c	Sept 16	Sept 30
Arbutrios, Chihuahua, Mex.,	$1	Sept 30	Oct 12
Baltimore, Alpine co		Annual Meeting	Sept 16*
Bacon M. & M. Co.,	$10	Payable	May 10
Belcher, Baldwin & Abernethy		Dividend of $17,	June 3
Baltimore American, Storey co., Nev.,	$5	Sept 5	Sept 19
Boston, El Dorado co.,	50c	Sept 18	Sept 30
Bolinas, Marin co.,	50c	Sept 16	Oct 2*
Camargo (Eclipse), Lander co.	$5	Aug 19	Sept 6*
Chloride Ledge, Calaveras co.,	$1	Aug 19	Sept 2*
Confidence,		Dividend, $100 per foot	May 1
Chollar, Storey co., Nev.,	$85	Sept 18	Oct 2
Chiplonema, Sonora, Mex.,	$5	Aug 26	Sept 8
Cosala, Sinaloa, Mex.,	$1.50	Aug 28	Sept 9
Cole, Storey co., Nev.,	$1	Sept 4	Sept 19
Conbortita, Sinaloa, Mex.,	$5	Sept 1	Sept 12
Consolacion, Sinaloa, Mex.,	$2	Aug 30	Sept 11
Central, Storey co., Nevada,	$5	Sept 6	Sept 26
Cordillera, Chihuahua, Mex.,	$2	Sept 10	Sept 23
Coal Creek, Sonoma co.,	50c	Sept 4	Sept 16
Crown Point, Storey co., Nev.,	$25	Oct 4	Oct 20
Confidence		Annual Meeting	Sept 26
Capitola, Santa Clara co.,	15c	Sept 22	Oct 6
Dancy, Lyon co		Quarterly Meeting	Sept 4
Emilia, Guerrera, Mex.,	25c	Sept 16	Sept 30*
El Dorado, Alpine co		Annual Meeting	Sept 16*
Eagle Quartz, Amador co	75c	Sept 2	Sept 23*
El Tesoro, La Paz,	50c	Sept 19	Sept 30
Empire M. & M. Co		Dividend Payable	Aug 10
Evoca Cons		Meeting	Sept 6
Exchequer, Storey co., Nev.	$2	Oct 2	Oct 17
Franco Americana,	$1	Sept 12	Sept 25
Florida, Reese River, Nev.	$10	Oct 3	Oct 18
Globe, Alpine co.,	$2	Sept 23	Oct 12*
Governor Nye, Alpine co		Annual Meeting	Sept 7*
Geo. Washington		Annual Meeting	Sept 18*
Great Western, Aurora,	10c	Aug 26	Sept 9*
Golden Rule, Dividend		Payable	Aug 20
Gould & Curry,		Dividend,	$40 Aug 5
Great Consolidated, Boise River, Idaho,	50c	Aug 21	Sept 1
Gov. Nye, Devil's Gate, Nevada	$1	Sept 12	Sept 25
Guadalupe, Chihuahua, Mex.	$25	Oct 3	Oct 18
Garcia Petroleum,	15c	Sept 4	Sept 16
Germania, Mt. Diablo		Sale	Sept 6
Hanscom Copper, Del Norte co.,	15c	Aug 26	Sept 12*
Honest Miner, Lander co.,	50c	Aug 26	Sept 12*
Halleck, Alpine co.,	50c	Aug 26	Sept 9*
Illinois, Alpine co		Annual Meeting	Sept 19*
Imperatrice Eugenie, Calaveras co.,	25c	Sept 2	Sept 19*
Imperial		Dividend Payable	Aug 10
Jowett, Gold Hill, Nev.	$1	Aug 19	Sept 2*
Jura, Americana Flag dist., Nevada,	$1	Aug 28	Sept 9
Jefferson, Brown's Valley		Dividend $10 per share	Aug 23
Kimblin, Sierra co.,	$25	Sept 16	Oct 2*
Keystone, Calaveras co		Sale	Sept 12
Kentucky, Calaveras co		Annual Meeting	Sept 5
La Favorita, Sonora, Mex.	50c	Sept 30	Oct 14*
Leland, Arizona Territory,	25c	Sept 16	Oct 2*
Lady of the Lake, Arizona Territory	25c	Sept 16	Oct 2*
Lancha Plana, Calaveras co		Annual Meeting	Sept 6*
Lady Franklin, Alpine co.,	50c	Sept 16	Oct 6*
Lord Byron, Devil's Gate,	50c	Aug 26	Sept 11*
Lotus, Calaveras co.,	15 cts	Aug 15	Sept 2
La Blanca, Sonora, Mex.,	3.50	Aug 28	Sept 9
Lady Bell, Del Norte co.,	10c	Sept 4	Sept 15
Lady Bryan, Storey co., Nev.	$2.50	Sept 20	Oct 2
Mammoth, Alpine co		Annual Meeting	Sept 9*
Mosquito Quartz, Calaveras co.,	$5	Aug 26	Sept 15*
Maggie, Lander co., Nev.,	$3	Sept 23	Oct 5
Morning Star, Alpine co., Nev.	$1	Sept 21	Sept 30
Morning Star, Alpine co.,	$1	Sept 22	Oct 10
Napa, Alpine co		Annual Meeting	Sept 12*
Nuestra Sen. de Guadaloupe, Durango,	50c	Sept 11	Sept 22
New Hope, Lander co., Nev.	$1	Aug 14	Sept 2
Nonpareil, Tuolumne co.,	$2	Aug 31	Sept 16
Old Colony, Reese River,	$5	Aug 26	Sept 11*
Ontario, Lander co.,	$1	Sept 11	Sept 22
Ontario, Lander co		Annual Meeting	Sept 4
Overman		Meeting	Sept 14
Orion and Castle Dome		Election	Sept 4
Paragon, Petroleum		Annual Meeting	Sept 2*
Porter, Virginia, Nev.	$5	Sept 30	Oct 14*
Potosi, Storey co., Nev.,	$25	Sept 18	Oct 2
Patrocina & Dolores, Chihuahua, Mex.,	1.50	Sept 1	Sept 15
Petaluma M. & M. Co.,	Dividend of 5 ₱ cent		Aug 9
Peninsula, San Antonio, L. Cal.,	$10	Sept 5	Sept 16
Prima Dona, Devil's Gate, Nev		Annual Meeting	Sept 6
Pennsylvania, Alpine co.,	$2	Sept 9	Sept 28
Revenue, Lander co., Nev.,	$1	Aug 26	Sept 13
Rancherio, San Antonio, L. C.	40c	Sept 2	Sept 16
Refugio, Chihuahua, Mex.,	$2 50	Sept 9	Sept 23
Retugio		Meeting	Sept 14
Santa Anna Petroleum		Annual Meeting	Sept 4
Santa Cruz Petroleum, Santa Cruz,	30c	Sept 16	Sept 30*
Santa Cruz Petroleum		Annual Meeting	Sept 26*
Sierra Nevada, Alpine co		Annual Meeting	Sept 12*
Silver Prize, Alpine co		Annual Meeting	Sept 20*
Silver Creek, Alpine co		Annual Meeting	Sept 19*
St. Clair, Smoky Valley,	50c	Sept 2	Sept 16*
Sheba, Humboldt co., Nev.,	$25	Aug 19	Sept 2*
Southern Light, R. R.	50c	Aug 19	Sept 6*
Simpson M & M Co., Alpine co.,	60c	Aug 19	Sept 9*
Scott M & M Co., Humboldt co., Nev.,	80c	Sept 9	Sept 25*
Savage,		Dividend, of $75	May 5
Santiago		Dividend	May 17
Stephen A. Douglas, Lander co., Nev.	$5	Sept 18	Oct 3
San Francisco, Del Norte co.,	70cts	Sept 1	Sept 13
Sweet Vengeance, Yuba co.,	$1	Aug 19	Sept 4
Siempre Viva, Sinaloa, Mex.,	$2.50	Aug 29	Sept 9
Sierra, Douglas co., Nev.,	$2	Sept 8	Sept 29
Santa Rosa		Annual Meeting	Sept 7
Sophia Cons		Annual Meeting	Sept 4
Table Mountain, Calaveras co.,	50c	Sept 23	Oct 12*
Tip Top, Alpine co		Annual Meeting	Sept 18*
Tuolumne Mountain,	50c	Sept 18	Sept 23
Triunfo		Special Meeting	Sept 6
Tentonia, Mt. Diablo		Sale	Sept 5
United States, Lander co		Meeting	Sept 4*
Union No. 2, Calaveras co.,	$1	Sept 9	Sept 23*
Vulcan, Lander co.,	50c	Sept 16	Sept 30*
Wide West, Alpine co		Annual Meeting	Sept 7*
Whitton, Alpine co		Annual Meeting	Sept 5*
Wisconsin, Alpine co		Annual Meeting	Sept 18*
Wisconsin, Alpine co.	1	Aug 26	Sept 9*
Whitlach Yankee Blade, Lander co.,	$10	Aug 26	Sept 12*
White & Murphy, Storey co., Nev.		Annual Meeting	Sept 5
Yellow Jacket,		Dividend of $100	May

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	*Date of Levy.*	*Am't per foot*
Baltimore American	August 4	5 00
Brauch Mint	Aug 22	1 50
Bishop	Aug 18	1 00
Chrystal Peak Consol	July 30	2 00
Colo	August 6	1 00
Chollar	Aug 18	34 00
Central	August 6	60 00
California Consol M & M Co	Aug 23	1 00
Globe	Aug 17	1 00
Hamilton	August 12	40
Lincoln	August 5	1 00
Lady Bryan	Aug 22	2 50
Mount Blanc	Aug 23	1 50
North Comstock	August 2	25
Napoleon Consolbleted	August 16	25
North American	August 12	10 00
Orleans Flat	Aug 25	1 00
Peck	August 10	1 00
Plute Copper Co	August 11	1 00
Potosi	Aug 18	50 00
Siegel	Aug 3	50
Schiller	Aug 23	1 00

Delinquent Sales.

Name of Company.	*Date of Sale.*	*Place of Sale*
Alpha	Sept 27	Gold Hill
American Flat Nevada	Sept 28	Virginia
Allen	Sept 16	Virginia
Branch Mint	Sept 9	Virginia
Central Hawkeye	Sept 13	Gold Hill
Croesus	Sept 22	Gold Hill
Eastern Crown Point	Sept 9	Virginia
Globe	Sept 15	Virginia
Hamilton	Sept 12	Virginia
Independent	Sept 6	Virginia
Keystone	Sept 15	Virginia
Keystone	Sept 26	Gold Hill
Lincoln	Sept 6	Virginia
Napoleon Consolidated	Sept 25	Virginia
Nevada	Sept 25	Virginia
Opal	Sept 23	Virginia
Peck	Sept 9	Gold Hill
Sides	Sept 16	Virginia

North America

LIFE INSURANCE CO.,

No. 240 Montgomery Street,

SAN FRANCISCO.

The Most Liberal Company

IN THE UNITED STATES.

All Policies Non-forfeitable and Indisputable.

No Extra Charge for Residing in the Territories, or for Traveling to and from the Eastern States.

J. A. EATON & CO.,

Managers of the the Pacific Branch.

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our forme location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

1852. 1865.

Thirteenth Year of Publication.

THE GOLDEN ERA.

Founded in 1852.

The oldest Weekly Paper in the State, permanently established, and more widely circulated at home and abroad than any other on the Pacific Coast. In California, the Atlantic States, and throughout the entire field of its great and rapidly increasing circulation, THE GOLDEN ERA is universally regarded as a Literary and Family Journal of unequalled excellence. Among its contributors are all the best writers on this side of the Continent, and correspondents of distinguished ability in New York, Paris and London.

Liberal Terms to Clubs.

THE GOLDEN ERA is furnished to CLUBS at the following rates: Three Copies, one year, Ten Dollars; Five Copies, one year, Fifteen Dollars; Ten Copies, one year, Twenty Ove Dollars. An extra copy will be forwarded, free, for one year, to the person sending a club of five or ten subscribers.

THE GOLDEN ERA is now enlerged by the addition of eight columns to its pages—and presents fifty-six columns, containing the greatest possible variety of Valuable and Entertaining, Original and Selected Matter, all combining to render THE GOLDEN ERA a Literary and Family Journal of surpassing interest and attraction; a Welcome Guest in Cottage and Cabin; the favorite at the fireside in City and Country, the most useful, agreeable altogether desirable publication for California readers and their kindred and friends in the Atlantic States, Europe, and elsewhere. Every Household in the Mountains and Valleys, the Cities, Towns, and Mining Camps of California and throughout the Pacific States and Territories, should receive and welcome THE GOLDEN ERA as a regular weekly visitor.

Serial Romances in The Golden Era.

The most popular Novels of the present day published as Serials, from week to week, in the GOLDEN ERA, from advance sheets, simultaneously with their appearance in the English and Atlantic Periodicals.

Among the contributors to the GOLDEN ERA are all the prominent writers of Literary Repute in California and on the Pacific Coast, also correspondents and contributors of distinguished ability in the Atlantic States and Europe, comprising an array of Talent and Genius unapproached by any Literary Journal in California, the Atlantic States, or Europe.

IN THE GOLDEN ERA,

"THE FAIR LILIAS;"

Or, "LIFE IN DEATH,"

A New Story, by PIERCE EGAN, Author of "The Poor Girl," "The Flower of the Flock," "Lady Maud," "The Snake in the Grass," "Such is Life," Etc.

PIERCE EGAN is undoubtedly the most fascinating and attractive Novelist of the age. His stories are eagerly sought for, read and admired by hundreds of thousands in England and America. "THE FAIR LILIAS; or, Life in Death," surpasses, in exciting interest and thrilling situations, all of the productions of the celebrated author, and is Pierce Egan's masterpiece.

THE GREAT SERIAL,

"OUR MUTUAL FRIEND,".....By Charles Dickens.

"THOUGHTS AND THINGS"

APPEAR WEEKLY IN THE GOLDEN ERA.

Read "Thoughts and Things" in the GOLDEN ERA.

SUBSCRIBE FOR THE GOLDEN ERA.

One Year.....$4 00 Six Months.....$2 00

To Mail Subscribers.

THE GOLDEN ERA for One Year.....$4 00
THE GOLDEN ERA for Six Months.....$2 00
THE GOLDEN ERA for Three Months.....$1 00

Sent from the Office to any Address in California and Oregon—Nevada, Washington, Idaho, Utah and Colorado Territories—the Atlantic States, Europe, and all parts of the World.

Take care to write distinctly the name of the person, the name of the city, town or locality where the post office is situated, and the name of the County and State, in order that the paper may be fully and accurately directed to every address.

AGENTS in every part of the State receive subscriptions for the GOLDEN ERA.

POSTMASTERS in California, Oregon, and neighboring Territories obtaining subscriptions for the GOLDEN ERA and forwarding the same, with name and address of the subscriber, will be allowed a very liberal commission therefor.

Liberal Terms to Clubs.

Three copies, one year.....$10 00
Five copies, one year.....$15 00
Ten copies, one year.....$25 00

Now is the Time to Subscribe.

TO ADVERTISERS.

Best Advertising Medium.—The Golden Era is the oldest Weekly Journal in California, and indisputably enjoys by far the largest circulation in the city of San Francisco and in the interior of the State.

THE GOLDEN ERA

is universally read in every city, town, village and mining and agricultural precinct in California, and offers unusual and unequalled advantages to those who desire to bring their business prominently before the community. Only a limited space is devoted to advertising. All advertising pages are also largely occupied with fresh and interesting reading matter, and no advertisement can escape attention. The charges for advertising are not so large, proportioned to the benefits derived, as those of other papers. Liberal terms will be made with those who advertise for three or six months, or by the year.

BROOKS & LAWRENCE,

GOLDEN ERA BUILDING,

No. 543 Clay street, near Montgomery, San Francisco.

ANTIQUARIAN DISCOVERY.—The enormous gigantic pillar, standing on a sand hill in the outskirts of Alexandria, and commonly known as Pompey's Pillar, but recently regarded as the Pillar of Dioclesian, has long been a subject of interesting discussion to Egyptologists and historical students. Its appearance on a rude and very much broken foundation of many stones, was, to the eye, inseeure, and it looked much as if it would topple down. The period of its original hewing out of the Syrene quarry has been more uncertain than the date of its erection or inauguration in its present position. The foundation recently came to the notice of the Viceroy, and he ordered its repair. In doing this work it has been discovered that the visible foundation stones had really nothing to do with the support of the column, but were only the filling in around a cubic stone block on which the column rests its entire weight. On this block was found an inscription upside down, and investigation shows this to be an old capital from a column in one of the ancient temples in Upper Egypt. So that it is plain that those who erected the pillar of Dioclesian brought the capital to Alexandria for this purpose and the stone which was once honored as the crowning of a column in a temple of Sesostris on the Upper Nile, was degraded to be the hidden foundation of a column to the honor of a Roman despot. This stone bears the name of a king who lived about B. C. 1700, and the column has been standing on it fifteen centuries. The basement has been repaired, and there is now left a space so that visitors can walk around the old supporting stone and see the hieroglyphies on it.—*N. Y. Jour. Com.*

KEEP VALUABLE PAPERS IN PAPER.—At the burning of Barnum's Museum his iron safe fell in with the floors, and had to remain there in the fire a day or two. When taken out, everything covered with leather was destroyed! Everything covered with paper or linen was uninjured! The money in the leather wallet was burned up; that in a paper was safe. So with deeds, bonds, and other valuable papers.

WINE MAKING IN NAPA.—One cannot help noticing the constantly increasing extent of the vineyards in the county, and the large quantity of wine already produced. On a late visit to the cellars of Mr. Segrist, near town, we were astonished at the number of barrels now filled and ready for shipment. The wines made by Mr. Segrist are equal to the best we have as yet seen in this State, and the day is not far distant when Napa will rank as one of the leading wine-growing counties Mr. S. ships his wines direct to New York, where ready sale is found.—*Napa Register.*

REV. DR. BUSHNELL having expressed a very poor opinion of "that which claims to be a National hymn, entitled 'America,'" a friend of the author rejoins that he wrote the verses forty years ago for a Sunday school celebration, never claimed them to be a National hymn, and is not to blame because the nation will sing it.

REMOVAL!

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Accountant and Mining Secretary

Has removed to

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VERY FINE WATCHES FOR LADIES.

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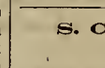

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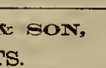

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Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

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WITH PALMER'S PATENT STEAM CHEST,
Superior for working either Gold or Silver Ores.
Genuine White Iron Stamp Shoes and Dies.

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

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And all kinds of Mining Machinery.

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STEAM ENGINE WORKS,
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Steam Engines of every description built to order—Marine, Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.
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Mission street, between Beale and Fremont streets, San Francisco. qy29-4

"She Has It Bad!"—At least a dozen different remarks, rich and ludicrous, were made by many of the Mormons and the Mormonesses while witnessing Mrs. Julia Dean Hayne in the character of *Camille*, the evening of her first appearance here. Unused to the simulations of the stage, and—with not a few—for the first time in a theater, the unlettered immigrants from the pauper preeints of the Old World, were no more endowed with thinking power than to absolutely believe that the said artiste's *coughing*, as the "consumptive Camille," was *constitutionally* and *strictly real*. Said one old Welch woman within hearing, "Praise the Lord! It's too bad the President (meaning Brigham) would allow the dear, good lady to play to night, with such a shocking cough!" And, another, with an old fashioned hair-pin holding together a hoary head of hair resembling tow, forced her way from the rear, on to the stage, inquiring of the property man to let her see "that poor sick lady," that she might give her a few sups of herb decoction which she held in a bottle, that she "*knew* would ease the creature's throat." "What a pity the poor thing's so short of breath," said one; and "Dear me but *she's got it bad*!" said another consumption sympathiser!—*Salt Lake Vedette.*

Sulphur Works.—T. M. Boarman, Esq., arrived a few days since from the mountains, says the Red Bluff *Independent*, bringing specimens of sulphur and brimstone from Lassen's Butte, where, in conjunction with other gentlemen of enterprise he has erected machinery for the manufacturing of sulphur. The supply is inexhaustible, and sufficient to furnish the whole nation with brimstone.

How to Get Rid of Ants.—A correspondent furnishes the San Jose *Mercury* the following receipt: Buy two bits worth of tartar emetic; mix it with sugar, either in powder or dissolved in water, and place it out of the reach of children, but where ants will be likely to find it; and in less than three day's they will all have left your premises.

A few weeks since, a returned soldier purchased a new pair of boots at a store in Buffalo, and left his old ones, but some time after returned and called for them. When they were brought to him he ripped open the lining and took from beneath $1,550 in greenbacks, in denominations of $50, $500, and $1,000, which he had placed there and forgotten.

About fifty thousand dollars' worth of worn-out fractional currency is destroyed each day, and its place is supplied with new. The entire amount in circulation is upward of $21,000,000. No more three cent notes are to be issued—the act of Congress prohibiting them—and the five cent notes will also be withdrawn.

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This article was more fully mentioned in the Press of April 15th, 1865. Since that time, however, Mr. Hendy has made a further improvement by attaching a rubber hose between the mouth-piece and the pipe, enabling the blower to change his position without disturbing the direction or constant accuracy of the current on the object upon which it is turned. The main portion of the blow-pipe is made with a joint, at which a valve is placed, which is opened when the operator blows and closed immediately when he ceases. By this arrangement the little bag or bladder is readily filled at a single breath, and with very little exertion. When so filled, a continuous current of air is forced from the nozzle of the pipe by the mere contractive force of the gutta percha. This force is uniform until the air is very nearly exhausted. The current may be easily varied or entirely cut off by gently pressing the fingers upon the neck of the bladder above the nipple to which it is attached.

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16v10-tf No 505 Clay street, San Francisco

Our Circulation.—The Mining and Scientific Press has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Progression in the Old World.—Gradually the nations of the old world are adopting the liberal views of the new, and it will not be long before many of the wholesome laws of the United States for the protection of the poor and the relief of the unfortunate, will find recognition and acceptance in Europe. In England, France and Ireland a feeling is rapidly growing in favor of abolishing imprisonment for debt, and another year, it is confidently asserted, will find laws in existence forever doing away with this barbarism. The Lord Chancellor of England prepared and submitted to the last session of Parliament a bill for the repeal of all laws for imprisonment for debt, and the Emperor of France has recommended the enactment of a similar measure. The proposed Act abolishes arrest for debt both on final judgment and *mesne process*, but while the person of the debtor will be free, the most stringent remedies are given to reach his property, no matter where or how circumstanced. It provides that a discharge shall not free the debtor's future acquired property, unless his estate pays five shillings in the pound, or unless *bona fide* creditors to the amount of three-fourths of his debts shall, by writing under their hands, consent to an absolute discharge by which he shall be released. This is a short step, but it is in the right direction, and will be followed by others in closer keeping with the progressive tendency of the times. The stocks, the whipping-post and imprisonment for debt, have given place to homestead and bankrupt laws in the United States, and enlightened Europe blushes at the barbarous laws upon its statute books which republican America has pronounced unjust and oppressive. The next popular movement in Europe, after the abolishment of imprisonment for debt, will be for the exemption of household furniture and homesteads from execution. Before this measure may become a law in France and England, however, new and startling innovations upon the legal practices of the Old World will be ventured in the United States—possibly, in many of the States, the abolition of all laws for the collection of debts ordinarily occurred. The world moves.

The restriction of twenty-five per cent, on cotton, west of the Mississippi, has just been removed. Thus all cotton is free with the exception of the internal revenue tax of two cents.

Rates of Advertising

— IN THE —

MINING AND SCIENTIFIC PRESS.

Mining Advertisements.

Notices of Meetings, per square, one week	$1 00
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Delinquent Sales, per square, two weeks	2 00
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Postponements, per square, one week	1 00
Slips of Advertisements, printed for meetings or assessments, per hundred	1 00
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One week, per square	$1 00
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☞ *Ten lines of solid advertising type constitutes a square.* ☜

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The Mining and Scientific Press is published every Saturday morning (containing sixteen pages—size of *Harper's Weekly*) at the following rates:

One copy, one year, by mail, in advance	$5 00
One copy, six months, by mail, in advance	3 00
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Five copies, one year, by mail, in advance	20 00
By city carriers, per month	50
Single copies	12½
Monthly Series (or parts), containing 4 Nos	50
Monthly Series, containing 5 Nos	62½

The Circulation of the Press, already extensive, is rapidly increasing, and substantial men who can profit by widely disseminating information of their business amongst the most intelligent, influential and industrial classes of the Pacific States and Territories will find no more effectual or economical medium for advertising.

DEWEY & CO., Proprietors.

Patent Agency and Job Printing Office, 505 Clay street, San Francisco. July 1 1865

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— OF THE —

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Vice President.....Josiah Moulton.
Recording Secretary.....P. B. Dexter.
Corresponding Secretary.....C. S. Higgins.
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Music—The Music at the Fair is furnished by Willis' Band, composed of thirteen pieces.

Mining Notices--Continued.

☞ *New Mining Advertisements to be found on another page.* ☜

Baltimore Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 16th, 1865, at 10 A. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Bollnas Petroleum Co., Bollnas Township, Marin county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of August, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the 16th day of August, 1865, in United States gold coin, to the Secretary, 611 Clay street, Room 8, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 2d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. L. KIRBY, Secretary.

Office, 611 Clay street, San Francisco. au19

Chloride Ledge Gold and Silver Mining Company. Location of Mine: Blue Mountain District, Calaveras county, California.

Notice.—There are delinquent, upon the following described stock, on account of assessment levied on the 11th day of July, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Boothby, W L	bal due on	2	40	$25 00
Crowell, G E		14	20	20 00
Hayden, John		7	20	20 00
Reynolds, R T	bal due on	3	30	15 00
Schultze, R	bal due on	9	50	20 00
Williams, Franklin		27	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 11th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the auction salesroom of Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on the 24 day of September, 1865, at the hour of 12 o'clock, M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

R. H. SMITH, Secretary.

Office, No. 606 Montgomery street, San Francisco. au19

Camargo (Eclipse) Gold and Silver Mining Company, Reese River Mining District, Lander county, Nevada.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 17th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allen, H H	46	9	$45 00
Bradley, H W	14	0	45 00
Cutter, H F	83	45	225 00
Chevers, W H	47	6	30 00
Camp, Jas	72	5	25 00
Drinkhouse, J A	4	6	30 00
Drinkhouse, J A	6	3	15 00
Dall, John H,	49	6	30 00
Dinkelspiel, L	51	3	15 00
Francis, D B	62	6	30 00
Greene, S H	59	0	45 00
Heath, R W	58	11	55 00
Leppien, F	17	3	15 00
Leppien, F	84	6	30 00
Lander, P C	18	6	30 00
Lander, P C	69	6	30 00
Landenberger, T E	21	3	15 00
Sharp, W H	61	6	30 00
Turner, A K	50	3	15 00
Williams, J J	40	3	15 00
Wightman, Jno	67	6	30 00

And in accordance with law and an order of the Board of Trustees, made on the 17th day of July, 1866, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 6th day of September, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSEIT Secretary.

Office, 402 Front street, San Francisco. au10-3w

Emilia Mining Company, State of Guerrero, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of August, 1865, an assessment of twenty-five cents per share was levied upon the assessable stock of said company, payable on the 17th day of August, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, No. 55 Montgomery Block, in the city and county of San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, southeast corner of Montgomery and Washington streets. Office hours, 10 A. M. to 3 P. M.

San Francisco, August 16, 1865. au19

El Dorado Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 16th, 1865, at 2 P. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on September 17th (Sunday)—changed to Monday, September 18th, 1865, at 2 P. M. of said day.

au12-4w W. D. ROOT, Secretary.

Globe Gold and Silver Mining Company, Monitor District, Alpine county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 23d day of August, 1865, an assessment of two dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, or to Isaac S. Powers, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 23d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Thursday, the 12th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

V. B. POST, Secretary.

Office, 1421 Taylor street, San Francisco, Cal. au26-5w

Governor Nye Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Thursday, September 7th, 1865, at 10 o'clock A. M. of said day.

au12-4w I. S. BROWN, Secretary.

George Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Notice.—There are delinquent, upon the following described Stock, on account of Assessment levied on the 10th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.

Honest Miner Gold and Silver Mining Company, Reese River Mining District, Lander County, Nevada.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 22d day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Allen, H H	bal	280	130	$50 60
Adams, Cyrus		162	5	2 50
Bradley, H W		41	11	6 50
Bradley, H W		207	5	2 50
Bradley, H W		218	6	2 50
Bertody, Chas		147	10	5 00
Cleary, F D		230	2	1 00
Cleary, F D		234	2	1 00
Drinkhouse, J A		241	104	62 00
Detrick, E R		273	2	1 00
Francis, D B		34	7	3 50
Francis, D B		240	10	5 00
Frank, J		165	22¼	11 25
Gayle, A B		149	4	2 00
Gayle, A B		157	2	1 00
German, Jno		237	1	60
Heath, R W		39	8	4 00
Hoffman, S		252	10	5 00
Leppien, Fred		38	3	1 50
Leppien, Fred		204	2	1 00
Ladd, W. Frank		213	3	1 50
Litchfield, W D		274	3	1 50
McDaniels, D		35	3	1 50
Nicol, W		211	1	50
Reed, J L		224	18	9 00
Reed, J L		232	2	1 00
Stoddard, S B		120	2	1 00
Shipley, A J		163	3	1 60
Shipley, A J		215	10	5 00
Shipley, A J		216	5	2 50
Shipley, A J		217	5	2 50
Turner, Anna K		47	5	2 50
Trask, Jno B		124	4	2 00
Tareman, C W		182	6	2 60
Upton, M		208	10	6 00
Williams, J J		31	3	1 50
Wightman, Jno		43	6	3 00
Whitlatch, J W		89	1	50
Whitlatch, J W		91	7	3 50
Woodleaf, H		173	5	2 60
Work, George		108	10	5 00
Work, Jno W		178	7	3 50
Work, Jno W		264	3	1 50

And in accordance with law, and an order of the Board of Trustees, made on the 22d day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold at public auction, by Jones & Bendixen, auctioneers, at the office of the Company, on the 12th day of September, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSEIT, Secretary.

Office, 402 Front street (up stairs). au26-3w

Illinois Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 19th, 1865, at 10 A. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Jewett Gold and Silver Mining Company, Gold Hill, Storey county, Nevada.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 19th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Wm Fishell	18	50	$50 00
Joseph Napthaly	74	25	25 00
Joseph Naptbaly	75	25	25 00
Joseph Naptbaly	76	50	50 00
Joseph Naptbaly	77	100	100 00
David Spence	94	2	2 00
J B Peirce	104	6	6 00

And in accordance with law, and an order of the Board of Trustees, made on the 19th day of July, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Maurice Dore & Co., at 627 Montgomery street, San Francisco, on Saturday, the 24 day of September, 1865, at the hour of 12 o'clock M of said day, to pay said delinquent assessment thereon together with costs of advertisiug and expenses of sale.

G. M. BURNHAM, Secretary pro tem.

Office, 509 Clay street, San Francisco. au19 3w

Leland Gold and Silver Mining Company.—Location of works: Mohave county, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 17th day of August, 1865, an assessment of 25 cents per share was levied upon the capital stock of said Company, payable on the 19th day of August, 1865, to the Secretary, at his office.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, October 2d, 1865, at 12 o'lock, M., to pay the delinquent assessment, together with costs of advertisment and expenses of the sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary.

Office, No. 302 Montgomery street, San Francisco. au19

nrd Byron Gold and Silver Mining Company—Location of Works: Devil's Gate District, Lyon county, Nevada.

Notice.—There are delinquent, upon the following described stock, on account of assessment levied on the th day of July, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Anderson	26	25	$12 50
W Berry	2	13	6 50
W Berry	61	30	15 00
W Berry	132	5	2 50
F Barge	35	25	12 50
D Dyer	131	43	21 50
G Elmore	145	10	5 00
D Graff	141	5	2 50
E Head	121 122 123		
	124 125 126 25 ea	150	75 00
E Head	127	14	7 00
M Huntoon	135 136 137		
	138 139 10 ea	50	25 00
M Huntoon	140	13	6 50
bn Kerlin	130	10	5 00
F Leonard	103	25	12 50
J Lansing	10	10	5 00
ranklin Morgan	76	10	5 00
ranklin Morgan	158	104	82 00
S McNamara	104	25	12 50
rnius Mickkelson	44	5	2 50
W McNutt	63	20	10 00
McMurray	80	100	50 00
McMurray	143	212	106 00
H Nason	23	10	5 00
H Nason	25	5	2 50
ary A Nichols	43	50	25 00
Olsen	61	10	5 00
S Rogers	3	12	6 00
S Rogers	22	25	12 50
Smith	133	15	7 50
aurice Shehan	38	50	25 00

And in accordance with law, and an order of the Board f Trustees, made on the 24th day of July, 1865, so many hares of each parcel of said stock as may be necessary ill be sold, at public auction, at the salesroom of dwards, Olney & Co., at No. 626 Montgomery street, San rancisco, on Monday, the 11th day of September, 1865, at he hour of 12 o'clock M. of said day, to pay said delin uent assessment thereon, together with costs of advertising and expenses of sale.

H. B. CONGDON, Secretary.

Office, 620 Washington street (room 5), San Francisco alifornia. au26 3w

Lady Franklin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Notice is hereby given, that at a meeting of the Board of rustees of said Company, held on the 15th day of August, 865, an assessment of fifty (50) cents per share was levied pon the capital stock of said Company, payable on the ist day of August, 1865, in United States gold and silver oin to the Secretary, at his office, 305 Montgomery street, an Francisco, or to Thomas Peters, at the mine, at Silver ountain, Cal

Any stock upon which said assessment shall remain unaid on Saturday, the 16th day of September, 1865, will be dvertised on that day as delinquent, and unless payment nall be made before, will be sold on Friday, the 6th day of ctober, 1865, at the office of the Company, to pay the deinquent assessment, together with costs of advertising nd expenses of sale. By order of the Board of Trustees.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, Rooms 5 and 6, San Franisco. nal9

Lady of the Lake Gold and Silver Mining Company—Location of Works: Mohave county, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of rustees of said Company, held on the 17th day of August, 865, an Assessment of 25 cents per share was levied upon he Capital Stock of said Company, payable August 19th, 865, to the Secretary, at his office.

Any stock upon which said Assessment shall remain unpaid n Saturday, the 16th day of September, 1865, will be adverised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 2d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary.

Office, 302 Montgomery street, San Francisco. nal9

Lancha Plana Copper Mining Company,

Campo Seco District, Calaveras county, California.

The Anoual Mooting of the stockholders of the above ompany will be held on Wednesday, the 6th day of Sepember, 1865, at 10 o'clock A. M., at the office of the ompany, No. 326 Clay street, San Francisco.

au12 J. FULLER, Secretary.

Mosquito Quartz Mining Company, Calaveras County, California.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 22d day of July, 1865, the several amounts set opposite the ames of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
B rnard	55	2	$16 60
Davidson	117	5	25 00
Godchaux	107	12	60 00
L Goold	170	10	50 00
H Hill	71	1	5 60
H Hill	159	1	5 00
Levy	75	½	10 00
Mabo	164	1	5 60
Percy	136	5	25 06
Pariiller	133	1	5 00
Rollett	192	2	10 60
Schmitt	78	5	25 06
Schmitt	194¼	5	25 00
Tepicro	219	50	250 06
M Wellhoff	106	2	10 00

And in accordance with law and an order of the Board f Trustees, made on the 22d day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction at the salesroom of Messrs. Edwards, Olney & Co., No. 825 Montgomery street, on the 15th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses f sale.

G. PARDOW, Secretary.

Office, 15 Montgomery Block, San Francisco. au26-5w

Mammoth Gold and Silver Mining Company, Silver Mountain District, Alpine county. Cal.

The Annual Meeting of the stockholders will be held at he office of the Company, No. 410 Montgomery street, an Francisco, on Saturday, September 9th, 1865, at 2 P. . of said day.

au12-4w J. WARREN CLARK, Secretary

Kimball Ravine Company, Sierra County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of August, 1865, an assessment of twenty-five dollars ($25) per share was levied upon the capital stock of said Company, payable on the 19th day of August, 1865, in United States gold and silver coin, to the Secretary, H. Nielsen, 219 Front street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 2d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

H. NIELSEN, Secretary.

Office, 219 Front street, San Francisco. au19

Napa Gold and Silver Mining Company,

Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 12th, 1865, at 10 A M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Nevada Gold and Silver Mining Company,

Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of August, 1865, an assessment of fifty cents per share, was levied upon the capital stock of said Company, payable on the 19th day of August, 1865, in United States gold and silver coin, to the Secretary, 402 Front street, San Francisco

Any stock upon which said Assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 6th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street (up stairs), San Francisco. au19

Paragon Petroleum Company, Mattole District, Humboldt county, State of California.

Notice is hereby given, that the Annual Meeting of the stockholders of the Paragon Petroleum company will be held at the office of the company, San Francisco, northwest corner of Washington and Sansome streets, on Saturday, September 2d, 1865, at 3½ o'clock, for the election of Trustees to serve during the ensuing year, and for the transaction of any other business which may properly come before the meeting.

au12 D. S. CUTTER, Secretary.

Silver Creek Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 19th, 1865, at 2 P. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Sierra Nevada Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 12th, 1865, at 2 P. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Santa Cruz Petroleum Oil Works Company—Location: Santa Cruz County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of August, 1865, an assessment (No. 13) of thirty (30) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, R. Wegener, 415 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. WEGENER, Secretary.

Office, 415 Montgomery street, San Francisco, Cal. au19

Santa Cruz Petroleum Oil Works Company—Location: Santa Cruz county, California.

The third Aannal Meeting of the stockholders of the above Compaay will be held at their office, 415 Montgomery street, San Francisco, California, on Tuesday, the 25th day of September, 1865, at 8 o'clock P. M., for the purpose of electing Trustees to serve for the ensuing year and such other business as may properly come before it.

LEANDER RANSOM, President.

R. Wegener, Secretary.

N. B.—All stockholders who cannot be present are earnestly requested to file their proxies with the Secretary. au12

Silver Prize Gold and Silver Mining Company, Silver Mountain District, Alpine county, California

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Wednesday, September 20th, 1865, at 2 P. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Scott Mining and Exploring Company, Humboldt county, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of August, 1865, an assessment of eighty (80) cents per share was levied upon the capital stock of said company, payable immediately, in United States coin, to the Secretary, at the office of Irvine & Co., No. 224 Front street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 9th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

V. B. POST, Secretary.

Office, No. 224 Front street. au12

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander County Nevada.

Notice.—There are delinquent on the following described stock, on account of assessment (No. 6) of fifty cents per share, levied on the 15th of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Allen, H H	178	4 1 16	2 64
Cutter, H F	90	35	17 50
Fassett, N C	53	2	1 00
Greene, Saml H	29	2	1 00
Hardy, Jas H	Bal 51	7½	3 75
Titus, A F.	156	7	3 50
Work, Geo	Bal 69	6½	3 25

And in accordance with law and an order of the Board of Trustees, made July 15th, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at the office of the Company, No. 228 Front street, San Francisco, Cal., by Jones & Bonstead, auctioneers, on Wednesday, September 6th, 1865, at 3 o'clock P. M., to pay the delinquent assessment, together with costs of advertising and expenses of the sale.

E. J. DRINKHOUSE, Secretary.

Office, No. 228 Front street, San Francisco, Cal. au12

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine county, Cal.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 8th day of July, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Deuse, W S	no cert. issued	100	$60 06
Rand, C W	no cert. issued	100	60 00
S Church	no cert. issued	106	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 8th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, Cal., on the 2d day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

T. B. CUNNINGHAM, Secretary.

Office, 65 Montgomery Block, San Francisco. au19-2w

Postponement.—The above sale is hereby postponed until Saturday, September 9th, 1865, at the same hour and place. By order of the Board of Trustees.

sep9 T. B. CUNNINGHAM, Secretary.

Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22d day of August, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, in San Francisco, or to J. M. Pike, Superintendent, at Copperopolis.

Any stock upon which said assessment shall remain unpaid on Saturday, the 23d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Thursday, the 12th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco, Cal. au26

Tip Top Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Monday, September 18th, 1865, at 12 M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Office of the United States Gold and Silver Mining Company, San Francisco, Cal.—Location of Mines: in Santa Fe and Ravenswood Mining Districts, Lander county, Nevada.

Notice is hereby given, that in accordance with a resolution of the Board of Trustees of the above named Company, passed on Wednesday, the fifth day of July, 1865, and in accordance with the by laws of said Company, a meeting of the stockholders of the above named Company will be held at the office of the Company, No. 605 Clay street, in this city, on Thursday, the tenth day of August next, at 7½ o'clock P. M., for the purpose of authorizing and empowering the Trustees of said Company to sell or more of the mines belonging to the said United States Gold and Silver Mining Company, and for the purpose of changing the by-laws of the same, and for the transaction of any and all business that may legally come before the meeting. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

San Francisco, July 5, 1865. jy8-5w

The above meetiag is hereby adjourned to the 24th inst., at the same hour and 540 Clay street. By order of the Board of Trustees.

au 12 J. T. PENNELL, Secretary pro tem.

The above meeting is hereby adjourned to the 4th day of September, at the same hour, and 540 Clay street. By order of the Board of Trustees.

au26 J. T. PENNELL, Secretary pro tem.

Union Copper Mining Co. No. 2, Ledge or Claim situated in Copper Canon District, county of Calaveras, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of August, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in gold coin of the United States of America, to the Secretary, at the office of the Company, California street, in the city of San Francisco.

Any stock upon which said assessment shall remain unpaid on the 9th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 23d day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

GVE. TOUCHARD, Secretary.

Office, 415 California street.
San Francisco, August 3, 1865. au12

Volcan Mining Company, Santa Fe Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of August, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner of Clay and Front street, San Francisco, Cal. au19

Wisconsin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 12th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Amundson, Thomas	43 44 45-10 ea	30	$26 80
Amundson, Thomas	46 47-5 ea	10	10 00
Berry, Geo E	49	78½	65 00
Bross, Jacob	39	5	5 00
Brown, Thomas	60	10	10 00
Brown, Thomas	61	7	7 00
Christianson, O & B	164	9	6 00
Christianson, O & B	165	5	5 00
Christianson, O & B	not issued	41	41 00
Eckel, A W	73	8	8 00
Edson, Albert	154 155-10 ea	20	17 50
Elde, Nells	159	5	5 00
Gullickson, L	116	3	2 90
Halverson, Ole	5	15	15 00
Halverson, Ole	84 104 105		
	106 107 108-10 ea	60	60 00
Halverson, Olo	not issued	180	150 00
Helgerson, John	17	15	15 00
Helgerson, John	18	25	25 00
Helgerson, John	19 22-10 ea	20	20 00
Helgerson, John	35	20	19 50
Helgerson, John	not issued	55	55 00
Hawkins, H J	110 111-16 ea	20	20 00
Hawkins, H J	113 114-25 ea	50	50 00
Hawkins, H J	169	5	5 00
Harprave, E J	36	5	5 00
Hessler, Chas	115	10	10 00
Harris & Co	137	5	5 00
Holderige, W	174	25	25 00
Johnson, John	26 26 27 27-25 ea	100	100 00
Johnson, John	29 30 31 32 33-10 ea	50	50 00
Johnson, Andrew	101	5	5 00
Johnson, Andrew	95 97 98-10 ea	30	30 00
Johnson, Andrew	99 100-20 ea	40	40 00
Johnson, J A	80	21	21 00
Johnson, J A	84	10	2 00
Jones, J M	153	12½	12 50
Kirk, Chas	6 9 16 11-20 ea	80	80 00
Kirk, Chas	8	25	13 40
Kirk, Chas	12 13 15-16 ea	30	30 00
Kirk, Chas	not issued	95	95 00
Kirby, Z C	150	12½	10 00
Kleuizer, Herman	151	5	5 00
Knutson, Iver	188	5	5 00
Levy, G N	54	5	2 50
Lee, O N	78	10	4 00
Lee, O N	79	13	13 00
Lee, O N	not issued	52	52 00
Lindau, Arnold	56	10	8 20
Luce, J B	149	10	10 00
Mellu, C	57	20	8 00
Murks, M	139	10	10 20
Nelson, Nells	82	10	10 00
Nelson, Christopher	88	16	3 44
Nelson, Christopher	89 90 91 92		
	93 94 95-25 ea	175	175 00
Nelson, Christopher	1 8	5	5 00
Ogden, Thomas	62 63 64-20 ea	60	60 00
Ogden, Thomas	65 67 98 69-10 ea	40	40 00
Ogden, Thomas	138	5	5 00
Ogden, Thomas	not issued	60	60 00
Olson, Hulver	120 121 122 123		
	124 125 126-26 ea	140	140 00
Olson, Thomas	71	16	2 00
Olson, Thomas	72	13	13 00
Olson, Peter	76	21	21 00
Olson, Peter	77	10	10 00
Owens, P A	135	20	20 00
Peterson, E H	38 40 41 42-5 ea	20	17 50
Rhodes, Alonzo	131	8	5 40
Rhodes, Alonzo	133	9	9 00
Ross, Louisa	134	10	16 00
Sutherland, J	53	10	9 20
Safford, H F	102 103-5 ea	10	9 00
Sorenson, O W	135	10	9 00
Severson, T	160	11	11 00
Severson, T	161 162-16 ea	20	20 00
Senter, Riley	166	8	8 00
Tanner, O	2	15	13 80
Thompson, P	130	10	8 20
Vanborn, S	169	5	5 00
Werner, F	152	12½	12 50

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Messrs. Edwards, Olney & Co., 826 Montgomery street, San Francisco, on the 21 day of September, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. WARREN CLARK, Secretary.

Office, 410 Montgomery street, San Francisco. au26-3w

Wisconsin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on September 17th (Sunday)—changed to Monday, September 18th, 1865, at 10 A. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Whitton Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 5th, 1865, at 2 P. M of said day.

au12-4w J. WARREN CLARK, Secretary.

Wide West Gold and Silver Mining Company, Silver Mountain District Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Thursday, September 7th, 1865, at 2 P. M. of said day.

au12-4w I. S. BROWN, Secretary.

Canvassing Agents.

We would call attention to the following named agents of the Mining and Scientific Press as gentleman worthy of the countenance of any community which they may visit and assistance rendered them in their efforts, by friends and old patrons, or our brethren of the Press, will be acknowledged as a personal favor to us:—

Mr. Robert Lattimore—Amador and Alpine counties and the State of Nevada.

Thos. Poyzer, of Grass Valley, for Nevada, Yuba and Sierra counties.

TOPOGRAPHY AND HISTORY OF AUSTIN.—Gov. Bross in his letter to the Chicago *Tribune* says: "Austin, a city of three thousand inhabitants, is situated in a valley running out at right angles into the Toiyape mountains that bound the valley of Reese River on the east. The mines were discovered in the Spring of 1862, by a driver of the Pony Express by the name of Talcott. He came up the valley to get some wood for the station of the Express Company, located in the valley below. The city was not fairly commenced till the Spring of 1863, and to build up such a town with mills and stores and dwellings, and to develop the mines as we have seen them, seems more like some strange fable than an absolute reality. In no other country are such miracles of enterprise and industry performed."

MINING LAWS AND FORMS.

Third Edition revised and enlarged.

Compiled by H. B. CONGDON.

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"Say, why should man for thirst be given
If not for wine bestowed by Heaven
To quench such drought as mine?
Without it, I'm a fish on land,
A barren heap of parching sand—
Then give me joyous wine."—*Trimmed.*

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There is no wine produced in California that can bear comparison with this, and it would be difficult to find a European wine, of the same class, that can surpass it.

The vintage of 1862 is now offered for sale, in quantities to suit, by the Agent of the vineyard,

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PARAGON PETROLEUM COMPANY.

Incorporated June 2, 1865,

Under the Laws of the State of California.

CAPITAL STOCK,

$600,000.

NO. SHARES.....6,000

Par Value.....$100

OFFICERS:

President.....ROBERT KIRK

Treasurer.....WM. H. TOBEY

Secretary.....D. S. CUTTER

TRUSTEES:

ROBERT KIRK, T. G. DUFF, WM. H. TOBEY.

OFFICE:

t WM. H. TOBEY & CO.'S Petroleum Agency, Room No. 28 Government House, corner of Sansome and Washington streets, SAN FRANCISCO.

The claims of this Company consist of ONE HUNDRED AND SIXTY (160) ACRES of oil land, favorably located on the North Fork of the Mattole river, adjoining the grounds of the Union Mattole Company, Mattole District, Humboldt county, California. The Company are now actively engaged in the development of the claims.

KELLOG CREEK PETROLEUM AND MINING COMPANY.

INCORPORATED JULY 11TH, 1865,

Under the Laws of the State of California.

NO. SHARES.....10,000

Par Value.....$50 00

W. F. BRANDRETH.....President

J. M. BUFFINGTON.....Secretary and Treasurer

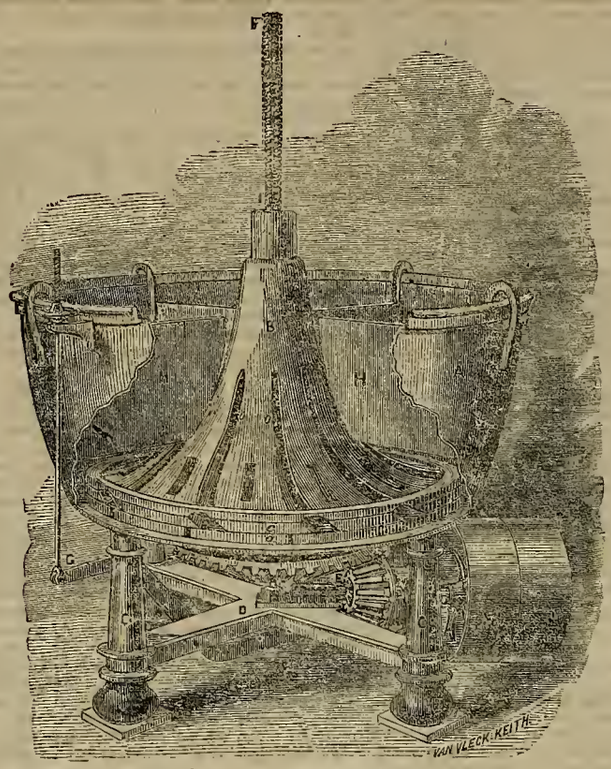
OFFICE—Room No. 10 Government House, corner of Sansome and Washington Sts., San Francisco.

The claims of this Company consists of SIX HUNDRED AND FORTY (640) ACRES, situated on Kellog Creek, in the Marsh Creek Mining District, Contra Costa county, Cal.

One thousand (1,000) shares of the contingent fund is offered at the low price of ONE ($1.00) DOLLAR per share, full paid, all the stock being unassessable. All who wish to purchase, or make any enquiry concerning the Company, will please call on the Secretary,

J. M. BUFFINGTON,

2v11 Corner of Sansome and Washington streets.



THE EXCELSIOR GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and o, Openings.

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity, "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

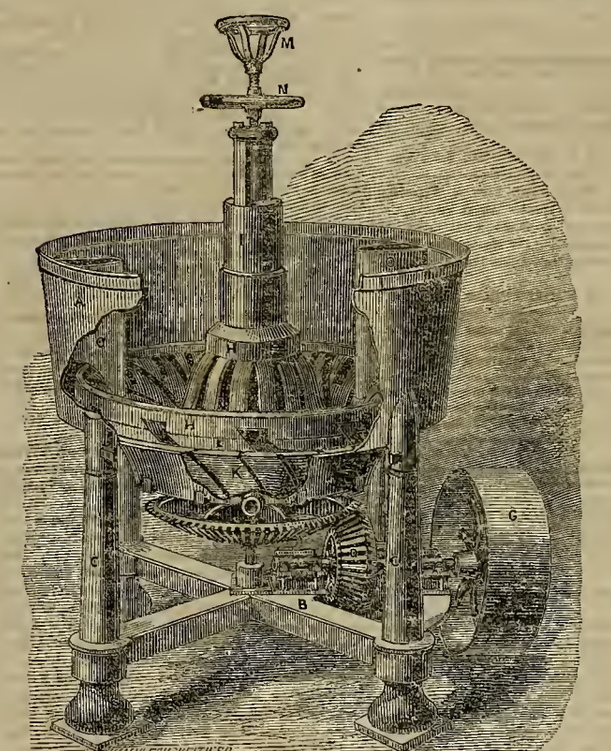
Union Iron Works and Golden State Iron Works,

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.



THE WHEELER & RANDALL Grinder and Amalgamator.

In the engraving herewith exhibited, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Plates.

The attention of the Public is respectfully called to these facts:

1st. That the Mechanical work accomplished by differently formed grinding plates, having the same diameter, weight, hardness, and revolving at the same velocity, is as follows, to wit:

The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

2d. That as a whole, the Wheeler & Randall Grinder and Amalgamator is one of the most simple, compact, substantial, convenient and efficient pans in use.

☞ Patent applied for.

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PRESCOTT & SCHEIDEL.....Marysville.
OREGON IRON WORKS.....Portland, Oregon.

WHEELER & RANDALL, Inventors.

SAN FRANCISCO, JUNE 13, 1865.

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San Francisco, March 16, 1865. 11v10-tf

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FOR DESULPHURIZING AND DECOMPOSING
METALLIFEROUS ORES,
—SUCH AS—
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By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Moultor, Alpine county, Cal., or by

DANIEL ROSS,

Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me.

EDWARD ARNOLD,
Inventor and Patentee.

Moultor, Alpine county, Cal.

W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11

TEETH

☞ Extracting Without Pain. ☜
Drs. Whitcomb & Dyer,
DENTISTS,
[Successors to W. H. Irwin.]
No. 205 Third Street, near Howard,
v9 SAN FRANCISCO.

A German Mining Engineer,

LATELY FROM THE EAST,

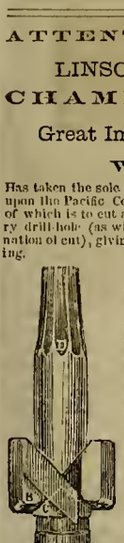
Desires a Place in a Mine, Assay Office, or Chemical Laboratory.

Address O. H., office of this paper. 4v11-1m

Machinery.

ATTENTION, MINERS!
LINSCOTT'S PATENT
CHAMBER DRILL.
Great Improving in Blasting.
W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.



D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ¾ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

HANSCOM'S CRUSHERS,

Made in sizes suitable for Breaking Quartz for Batteries; Rock for macadamizing or concrete; Copper Ore for sacking, sampling, or concentrating; also, for crushing Quartz for Arastras and Grinders. The small sizes make a most efficient Crusher for Prospectors, and are arranged to be run by Hand, Horse, Water or Steam Power. For further information address W. W. HANSCOM.

1 Golden State Iron Works, San Francisco.

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th. (Illustrated in the Mining and Scientific Press, April 9th, 1864.)

HEPBURN & PETERSON.

nov8 3m*

NOTICE TO MINERS.
NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Funchery's survivalled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1863; his Crocodile Quartz Crusher; his Pulverizer; and his Improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

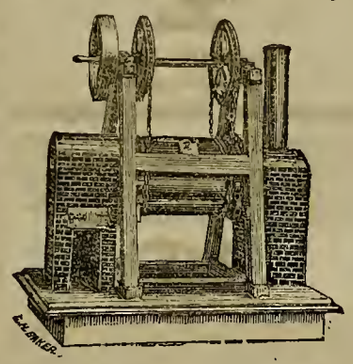
B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast, amalgamate, assort, concentrate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. B. FAUCHERY, Engineer,

24v9

W. BRUCKNER,
MINING ENGINEER,



Begs leave to call the attention of the mining public to his apparatus for ROASTING SULPHURETS, one of which is now being exhibited at the Mechanics' Fair. Parties wishing to test their ores by this roasting process are requested to leave their orders at the MECHANICS' FAIR DAILY PRESS office. 7df

BLAKE'S
QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA,
WASHOE,
ENGLAND, FRANCE,
—AND—
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,

Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.

4v10

VARNEY'S
PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the apertures and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setters made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setters for themselves, at the PACIFIC FOUNDRY,

1v1 San Francisco.

VALUABLE
PATENT RIGHT
FOR SALE.

The patent right for the United States of a valuable invention can be secured at a bargain by applying at this office. The article is one of general application throughout civilization.

DEWEY & CO., Publishers.

THE HAMMER QUARTZ MILL.

[PATENT APPLIED FOR.]

This Machine is now complete and ready for sale. In constructing it, our aim has been to produce a light, cheap and economical Crusher—one adapted to mining on a small as well as on a large scale.

The elementary principle on which it operates is that of the stamp—the only one really reliable and economical.

But the stamp has many serious disadvantages, among which are its great weight and small velocity; the great power required to run it; difficulty in feeding properly; imperfect discharge, and the necessity of crushing wet, or the annoyance from dust in crushing dry.

All these difficulties are obviated in our machine, and the percussive blow of the stamp retained, with the further advantage of its being a drawing or grinding one.

We give to our hammers such absolute or relative weight and velocity as we choose—just such as to effect their purpose and no more—thus securing the qualities of the natural hammer blow.

The feed is self-adjusting and uniform, and as fast as the ore reaches the required degree of fineness (which depends upon the fineness of the screen or sieve used), it is instantly discharged, so that there is no packing of the ore under the hammers.

The mill crushes dry, with no more dust than that incident to feeding, which is trifling.

As the only support of the mortar is a single post set into the ground, the machine can be put in place at slight expense.

The size now being built weighs about 1,800 pounds complete; the heaviest piece not weighing over 275 pounds. It is driven by half a horse-power, and crushes from three to ten tons per day of twenty-four hours per day, according to the character of the rock and the fineness to which it is reduced.

PRICE,.....$800.

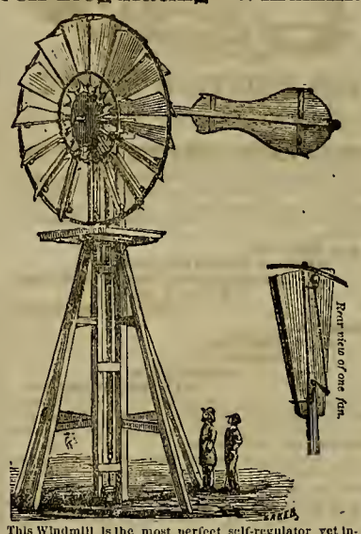
Larger ones will be furnished if desired.

We invite an inspection of the Mill now in operation adjoining the Foundry of DEVOE, DINSMORE & CO., on Fremont street, between Market and Mission, San Francisco.

Office, No. 11 Court Block, San Francisco, Cal.

21v10 RIX & LOGAN.

ATWOOD'S
Self-Regulating Windmill.



This Windmill is the most perfect self-regulator yet invented, and is capable of being adjusted to any desired speed. Manufactured at

222 Mission Street, North side, below Beale,
SAN FRANCISCO.

N. B.—We also manufacture DICKERSON'S SELF-REGULATING MILLS; also, Rotary and Stationary Mills of different styles and prices, varying from $50 to $500 each; also round and square Water Tanks made to order.

222 Mission street, below Beale. 5

HUNT'S
IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in orderly almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN
HORSE POWER
For Sawing Wood.
ALSO, THE
Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,

No. 23 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

HUNT'S PATENT
Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT.

7v10 23 Second street, San Francisco

Equal to the Best Overshot Wheel

POWER PLEDGED

IN EXISTENCE.

LEFFEL'S
AMERICAN DOUBLE TURBINE.

The DOUBLE TURBINES, so long expected, have arrived at last, and orders can now be filled. We have a large supply of the different sizes, from 20 inches to 30¾. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

The above Wheel will be exhibited during the Fair of the Mechanics' Institute, where all may see it and hear its merits explained. This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 100 to 300 pounds will yield from 10 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to

LEFFEL & MYERS.

4v11-tf Care RICHARDS & MCGNOGHEN, San Francisco.

TO QUARTZ MINERS.
Hinkle's Centrifugal Pulverizer and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUGAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steen, Nos. 37 & 39 Fremont street, between Market and Mission streets.

This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine, made entirely of Iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

Mr. Hanson, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 60 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to

PHILIP HINKLE,

At the Novelty Iron Works, Nos. 37 & 39 Fremont street. 15-1m

BAUX & GUIOD'S
Separator & Amalgamator

Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jefferson-lan Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crail's Gravel Cement Works, Nevada county; Waitman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Hough & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,

Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8-6df

McCOMB'S
CUMULATIVE POWER PRESS
AND
ARROW TIE.

E. C McCOMB, Agent.

No. 1 Government House, cor. Sansome and Washington sts. 23v10 3m

NOTICE.

The undersigned having purchased the EXCLUSIVE RIGHT in and for the State of California, for the

Manufacture and Sale of
WINHAM'S
PATENT HOSE COUPLING,

Hereby caution all parties against the manufacture or purchase of the above Hose Couplings, except through us, as any infringement will be prosecuted to the full extent the law.

PRESCOTT & SCHEIDEL,
Marysville Foundry

March 31st, 1865. 13v10.

MINING AND SCIENTIFIC PRESS

PATENT AGENCY.

For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 4th, 1861, and March 3d, 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honest and competent, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against the subjects of governments that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected therewith it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues. If the application is rejected we a cause thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the nventor should be engraved or painted on it cousplenously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first instalment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 yrs and 6 mos...	$10
On every application for a design, for seven years.....	15
On every application for a design, for fourteen years.....	30
On every application for a patent, for seventeen years...	15
On every caveat.....	10
On issuing each original patent.....	20
On filing a disclaimer.....	10
On every application for a re-issue.....	30
On every additional patent granted on a re-issue.....	30
On every application for an extension.....	50
On the grant of every extension.....	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C....	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

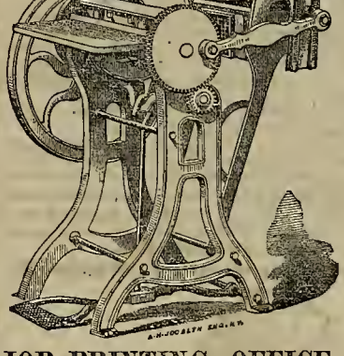
Mining and Scientific Press Office, No. 505 Clay street, corner of Sansome, San Francisco.

STILL PROGRESSING!

THE OFFICE OF THE

Mining and Scientific Press

was removed, April 8, to the old printing stand lately known as Waters Bros. & Co.'s, southwest corner of Clay and Sansome streets (one block south of our former location), where we have consolidated with a



JOB PRINTING OFFICE,

One of the oldest and best appointed establishments in the city for

CHEAP, RAPID AND FINE PRINTING.

We are well prepared to do good work, and as cheap as any prompt and reliable firm in San Francisco, and will guarantee entire satisfaction to every reasonable individual who may be kind enough to bestow upon us his patronage.

LAW BRIEFS,
MINING CERTIFICATES,
PETROLEUM CERTIFICATES,
BLANK BOOKS,
MINING BLANKS,
BOOKS,
PAMPHLETS,
CARDS,
CIRCULARS,
MINING REPORTS.

Orders from the Interior will receive prompt attention. We shall take care to secure correctness in all work executed for parties out of town. Small packages will be forwarded by mail at our expense.

City customers, or persons visiting San Francisco, are invited to call and examine our specimens, when they will be politely informed of our prices by the Proprietors.

E. D. WATERS, JR., / C. W. M. SMITH, } Proprietors. { W. B. EWER, / A. T. DEWEY,

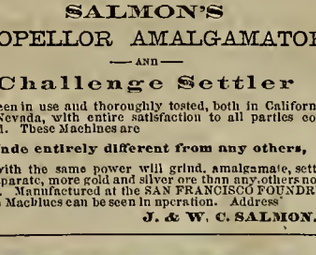
SALMON'S
PROPELLOR AMALGAMATOR
—AND—
Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

9v11 **J. & W. C. SALMON.**



In Local Affections no words can give a just idea of the comfort one of these plasters impart. They are the plaster of the day, and a fit type of our present advancement in science and art. In Asthma Cough, Kidney Affections, and local deep-seated pains in permanent relief.

TRY ONE, and be convinced

PRINCIPAL OFFICE

T. ALLCOCK & CO.,
Brandreth's Building,
New York.

W. F. BRANDRETH,
OFFICE AT
Crane & Brigham's.
SAN FRANCISCO.

☞ **FOR SALE BY ALL DRUGGISTS.** ☜
9v25

BACK VOLUMES.

Back files of the MINING AND SCIENTIFIC PRESS, from January 1st, 1864, to the present time, will be furnished at $3 per volume of six months; bound in cloth, $5.

HELMBOLD'S
FLUID EXTRACT BUCHU

For Non-Retention or Incontinence of Urine, Inflammation or Ulceration of the Bladder or Kidneys, Diseases of the Prostrate Gland, Gravel, Brick Dust Deposits, Dropsical Swellings, Orgauic Weakness, Debility, Female Complaints, Etc

H

HELMBOLD'S
FLUID EXTRACT BUCHU
—AND—
Improved Rose Wash

Will radically exterminate from the system Diseases arising from Habits of Dissipation, *at little expense, little or no change of diet, no inconvenience or exposure*; completely superseding those *unpleasant and dangerous remedies, Copaiba and Mercury*, in curing these diseases.

E

USE HEMBOLD'S
FLUID EXTRACT BUCHU

In all Diseases of the Urinary Organs, whether existing in MALE OR FEMALE, *from whatever cause originating, and no matter of how long standing*. It is pleasant in its taste and odor IMMEDIATE in action, and more strengthening than any of the preparations of *Bark or Iron*.

Those suffering from *Broken Down or Delicate Constitutions, procure the Remedy at once.*

The reader must be aware that however slight may be the attack of the above diseases, it is certain to affect his *Bodily Health, Mental Powers and Happiness*. If no treatment is submitted to, Consumption or Insanity may ensue.

All the above diseases require the aid of a diuretic.

Hembold's Extract Buchu
IS THE GREAT DIURETIC.

L

HELMBOLD'S
HIGHLY CONCENTRATED
Compound Fluid Extract Sarsaparilla,

For purifying the Blood, removing all diseases arising from excess and imprudence in life, chronic constitutional diseases arising from an impure state of the blood, and the only reliable and effectual known remedy for the cure of Scrofula, Scald Head, Salt Rheum, Pains and Swelling of the Bones, Ulcerations of the Throat and Legs, Blotches, Pimples on the Face, Tetter, Erysipelas, and all scaly eruptions of the skin, and beautifying the COMPLEXION.

M

NOT A FEW

Of the worst disorders that afflict mankind arise from the corruption that accumulates in the Blood. Of all the discoveries that have been made to purge it out, none can equal in effect HELMBOLD'S CONCENTRATED EXTRACT OF SARSAPARILLA. It cleanses and renovates the Blood, instills the vigor of health into the system, and purges out the humors which make disease. It stimulates the healthy functions of the body, and expels the disorders that grow and rankle in the Blood. Such a remedy, that could be relied on, has long been sought for, and now, for the first time, the public have one on which they can depend. Our space here does not admit of certificates to show its effects, but the trial of a single bottle will show to the sick that it has virtues surpassing anything they have ever taken.

B

Two tablespoonsful of the Extract of Sarsaparilla, added to a pint of water, is equal to the Lisbon Diet Drink, and one bottle is equal to a gallon of the Syrup of Sarsaparilla, or the decoction as usually made.

The above Extracts are prepared on purely scientific principles—in *Vacuo*—and embody the full strength of the ingredients entering into their composition. A ready and conclusive test will be a comparison of their properties with those set forth in the U. S. Dispensatory.

O

HOW TO USE THE REMEDIES.

In Diseases of the Blood, Humors on the Face, or any and every part of the body, use Extract of Sarsaparilla, applying to Pimples and all external Humors or Eruptions the Improved Rose Wash.

Use the Extract Buchu for all diseases requiring the aid of a diuretic, except those of the Urinary Organs, such as Gonorrhœa and Gleet; in these use the Extract Buchu, and inject with the Improved Rose Wash.

L

☞ THESE EXTRACTS HAVE BEEN ADMITTED TO USE IN THE UNITED STATES ARMY, and also are in very general use in all the STATE HOSPITALS AND PUBLIC INSTITUTIONS throughout the land, as well as in private practice, and are considered as invaluable remedies.

MEDICINE DELIVERED TO ANY ADDRESS.

Direct letters to—

HEMBOLD'S DRUG AND CHEMICAL WAREHOUSE,
594 Broadway, Now York, next Metropolitan Hotel,

—OR TO—

HEMBOLD'S MEDICAL DEPOT,
104 South Tenth street, Assembly Buildings, Philadelphia.

D

Describe Symptoms in all Communications.

SOLD BY ALL DRUGGISTS EVERYWHERE.

Beware of Counterfeits!

ASK FOR HELMBOLD'S.

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HOSTETTER, SMITH & DEAN,

Sole Agents for the Pacific Coast,
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Principal office, Brandreth Building, New York.

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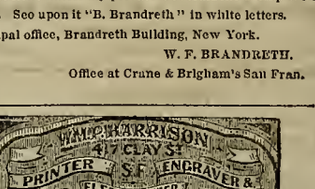

IN THE PROBATE COURT, CITY AND COUNTY OF San Francisco, California. In the matter of the Estate of J. W. WREY alias J. H. CHURCHILL, deceased. Notice to Creditors—All persons are hereby notified, who have claims against the said deceased, or this estate, to present the same, with necessary vouchers, to the undersigned, at No. 504 Merchant street, San Francisco, within four months after the first publication of this notice (a summary administration of this estate having been ordered), else the same will be forever barred.

J. A. WOODSON,
Attorney for P. WARNER, Adm'r of said Estate,
604 Merchant street.
San Francisco Aug. 26, 1865. 8v11-4w

COUNTY COURT, CITY AND COUNTY OF SAN FRANcisco.—In the matter of the application of the Palmyra Mill and Mining Company for an order of dissolution.

Notice is hereby given to all persons interested that the Palmyra Mill and Mining Company have this day filed their petition in the County Clerk's office of said City and County, praying for an order of dissolution, and in pursuance of an order of the Hon. Samuel Cowles, this day made, all persons interested are hereby notified to be and appear before the Hon. Samuel Cowles, County Judge of said city and county, at his chambers, in the City Hall, on MONDAY, the 2d day of October, 1865, at 9 o'clock, A. M., of that day, to show cause, if any they have, why the prayers of said petitioners should not be granted.

Witness my hand and seal of said Court, the {L.S.} 30th day of August, 1865.

WM. LOEWY, Clerk,
By WM. HARNEX, Dep. Clerk.

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Ward's Perfect Fitting Shirts.

These Shirts are too well known to need any comment, both for perfect fit and quality. A large supply always on hand. Also, the largest stock of Gents' Fine Furnishing Goods on the Pacific Coast. Try one of his Shirts, and you will never wear any others.

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Mining and Scientific Press.

A Journal of Useful Arts, Science, and Mining and Mechanical Progress.

DEWEY & CO., PUBLISHERS, And Patent Solicitors. | SAN FRANCISCO, SATURDAY, SEPTEMBER 9, 1865. | VOLUME XI. Number 10.

OUR NEW YORK AGENCY.

Mr. Geo. M Newton is our authorized agent in New York City, and will receive advertisements and subscriptions for the Mining and Scientific Press at regular rates. Sample copies of our weekly and monthly issues can be procured by calling upon him, at the office of the "Stockholder," No. 72 William street.

Our Paper by Express.—Owing to the fact of Wells Fargo & Co requiring publishers to pay 2½ cents per copy in advance on papers sent to subscribers in the interior we are obliged to make our subscription terms by express $3.50 per annum.

[From the Daily Fair Press.]

THE TURBINE SCREW PADDLE WHEEL.

This new and important California invention begins to attract considerable interest and attention, both here, at the East, and in Europe; and should its performance on a large scale realize results foreshadowed by the tests and experiments hitherto made, we may confidently anticipate a speedy revolution in the steam navigation of the world. Probably none of the wants of civilization has received more earnest study and attention, or enlisted a greater amount of genius than this subject of the paddle wheel, and perhaps nothing has been so little improved.

When we reflect that the present method of propelling vessels by the use of paddle wheels is six hundred years old, without a single successful effort to displace it, notwithstanding its acknowledged imperfections, we may well entertain an honest pride if it has been reserved to California to discover the desideratum of a propelling instrument that works and harmonizes with the laws of nature.

We have been familiar with the theory of this invention for several months, and are entirely convinced that it embodies a great truth, and is destined to accomplish a revolution in favor of speed, with a great economy of power: and at least one strong moral argument in its favor is that the absence in this wheel of all the formidable impediments of the present theory, were incidental to the construction of this instrument upon principles that it was believed would envoke a new element of power, and the various experiments and tests to which the turbine screw has been subjected have fully vindicated the theory, and realized the expectations of its friends.

The exceeding simplicity of the invention renders its application easy and inexpensive, and may well have excited doubts as to its novelty; but we understand that a year's investigation and correspondence has failed to discover anything like it, or even attempting the acquisition of the great central element of this invention, which would seem to hold within its orbit a solution of all the difficulties hitherto encountered in attempts to improve an instrument that (if the new theory be correct) was wrong in principle, and hence no amount of treatment could reach its chronic defects. The peculiar angular and curved form of the floats or buckets of the new wheel, appear to hold in combination a remedy for the violence of the present wheel, while the soft and noiseless angular action on the water develops a latteral pressure that is ever present, no matter what the speed, securing to the new wheel a resistant, after all pressure is lost in the vertical action.

A moment's reflection must convince the most sceptical, that if it be possible to substitute constant pressure for the violent percussion, lift, and consequent vibration of the present method, a great point will have been gained; as it must be apparent that concussion retards momentum, and all power thus consumed is worse than wasted, saying nothing of the disastrous effects upon the duration of the vessel.

In the angular or turbine wheel, we find gentleness combined with power, and while the floats or buckets enter and leave the water without violence and without disturbing the water next the hull of the vessel, discharge the displaced water to the outside, at an angle avoiding back water. Experiments have proved that the effectual propelling power exerted is much greater than is obtained from the present method, while the slip of the wheel is greatly diminished and power economized.

All the experiments made have indicated a difference in favor of the turbine screw of fully fifty per cent., with an actual increase of speed at the same revolution, of over twenty-five per cent., as will be seen by the subjoined statement of the comparative results:

Distance 855 feet.

Two Old Style Wheels, two men.....	54 seconds.
Two Turbine Wheels, two men.....	37 "
One Turbine Wheel, two men	54 "

Tests were also made between the power of the turbine wheels and that of the oar. Boats lashed stern to stern, one man on the crank and two men with four oars, when the wheels towed the row boats ashore easily.

The new wheels, we trust, will be tried shortly on a large scale, when we shall look for results that will secure their immediate adoption.

A patent has been applied for by the proprietors of the wheel, Messrs. E. Jones & E. C. McComb; Mr. Jones being the inventor. Its model is among the latest entries made at the Fair. It is located in our department of models, and attracts much attention.

A Profitable Gold Saver.—It is not the amount of money made that renders the individual wealthy, but rather the sum which he saves. So in quartz mining, the mills which reduce the most rich rock are not always the ones which prove most profitable. Usually, the most clearly productive machinery is that which is so simple in construction and working as to require but a small outlay of capital and a limited amount of power and attention. As a sample of this latter class of machinery, we would mention Hungerford & Hendy's Prater Concentrator, of which we have before had occasion to speak in terms of recommendation. These concentrators are placed as gleaners after batteries of various construction and are apparently steadily gaining favor, some fifty of them having already been put in use in various localities. Most of our prominent foundries and machine shops have engaged to construct them, and the following list are now in the process of manufacture: Three for Mexico, at the Union Foundry; four at the Fulton Foundry—two being for the Union mill, in El Dorado County; six at the San Francisco Foundry, two being ordered for the Buell mill, Austin, Nevada, by J. R. Murphy, an experienced metallurgist who has had the concentrators in practical use for the last twelve months. The machine is constantly in operation at the Pavilion, where we would invite millmen to examine it and obtain further information from the attendant proprietor Mr. J. Hendy.

Gunpowder.—"In time of peace prepare for war," and "be sure and keep your powder dry," are injunctions which have passed into proverbs. The California Powder Works, for which John F. Lohse is acting agent, are now manufacturing extensively. These works are located at Santa Cruz. They turn out sporting, mining and blasting powders, in quantities to supply a large demand; and on account of the peculiar claims they have upon the people of this coast, ought to be liberally patronized.

[Written for the Daily Fair Press.]

The Absence of Color in Leaves of Plants.

On a recent visit to the Pavilion, my attention was called by Mr. Bloomer, who has charge of the Botanical department, to a specimen of the red wood (*Sequoia Sempervirens*) of this State.

This specimen is peculiar in having one part of its foliage perfectly white, while the balance is of the usual vivid green. This is a condition which we often see in other plants, especially of the geranium family; yet not in so marked a manner. The question arises, what causes this departure from a regular law of nature?

We all know, if a plant is deprived of its proper supply of light, it will grow up pale and sickly, passing through all grades of color, from its normal green to a perfect white. Yet here is a plant which has not been subjected to this deprivation; growing out in the common light and air of heaven, exposed to all the usual conditions of plants, with one part of it green while the other is white. What is the cause of this? In no work have I seen an explanation offered, yet there must be some cause for it; nothing in this world is left to chance.

I propose not to give a theory, but rather to call attention to this phenomena, and offer a few points for the consideration of those who study natural history. The sap of a plant is blood, as the blood of animals is the sap of their organizations. The two fluids play the same economy in the law of nature. The blood of man, we know, has in it two kinds of cells, or corpuscles, the red and white. It is upon the proper adjustment of these cells that health in a great measure depends; if we have an over abundance of the red cells, the condition of plethora or hyperæmia is produced; and this gives us a standard, as it were, above health. If, on the other hand, the white cells predominate, there is a state of anæmia or paleness, being below the standard of health. In one case there is an over development of the circulating fluid; in the other an arrest of development.

Now, may not the same law influence the sap of plants? We know that the color of the leaves of plants depends on a principle called *chlorophyl*, as the blood depends on hæmatin for its color. That the leaves act as the lungs of the plant, that unless the sap has been exposed to the influence of the light and air, it is not suitable for the nourishment of the plant. Just as the blood is not capable of sustaining life until it has been ærated in the lungs. Now taking up the example of the blood and following it still farther, may not the sap have two kinds of cells, and that in a healthy condition of the plant the one proper to it predominates, and so the green color is produced. If now we have an unhealthy condition of a plant, or part of it, may not the other cells (being of a lower grade) be arrested in their development, and taking the ascendency, produce in the plant (as the underdevelopment does in the blood cells), an anæmic state; hence the white color.

My opinion then is that this phenomena is caused by an arrested development in the sap cells of the plants. Whether that arrestment is caused by external or internal influences, we cannot determine.

This is but a crude idea of what is in my mind in regard to this subject, and my only intention in this article is to direct thought to a thing we see every day, and yet for which we have no satisfactory explanation.

C. A. S.

San Francisco, Aug. 24, 1865.

THE EUREKA MATCH MANUFACTORY.

One of the most unassuming, but by no means least valuable, of the classes of manufactures which have lately grown up in our midst, is the manufacture of lucifer matches. Until quite recently the inhabitants of the Pacific coast have been supplied with this indispensable article wholly from the East, and the public were therefore oftentimes placed under a heavy contribution by speculators who managed to get control of the market. The introduction of their manufacture has not only removed this evil, but has also furnished us with an article altogether superior to the generality of matches brought from the East, and the market has been kept constantly and uniformly supplied. It is our purpose, in a future article, to give a succinct history of the match manufacture, the discovery of phosphorus, its application to the manufacture of matches, etc. For the present we have merely space to state that the application of phosphorus to the old sulphur match has entirely changed the character of that useful article, and introduced it at once into manufacture as a science, as well as an art.

The first application of chemistry to the discovery of a substitute for the tinder box of our fathers, was made in 1820, since which time there has been a continual progress in this art. In 1836 the lucifer match was first introduced, and these explosive matches were soon followed by non-explosive ones, and various improvements have been made in this direction, by different chemists, for the past twenty years; but no greater improvement has ever been made than that recently introduced by Dr. Lanszewcert, of this city, and for which he holds a patent. The match manufactured under this patent is called the "Pacific Safety Match or Light," in which for the first time in the history of this manufacture, *no sulphur nor ordinary or amorphous phosphorus is used, not even on the surface of the box.* The advantages of these matches cannot be overrated; for children can eat them with impunity, as they are harmless in their compounds. They are sufficiently combustible for all practical purposes, yet not so much so as to render them as liable as most other matches to accidental ignition; and last, though by no means least in their advantage, is their freedom from all source of injury to the health of those employed in their manufacture. These matches are on exhibition at the Pavilion, in the cases of Jessup & Co., of the Eureka Manufacturing Company. As a California invention, we would call the especial attention of the public to its novelty and utility; and we presume Dr. Lanszweert will be found entitled to the highest consideration of the examining Committee of the Institute for the same. Among other samples in the exhibition of Jessup & Co., we notice the California Ladies' Parlor Match, the Challenge Match, and imitations of every other description of valuable matches; all of which have been manufactured under the supervision of Dr. L., as the chemist of the Eureka Match Co.

California Straw Works.—Since the days of mother Eve, to the present time, there never was a greater variety of jaunty hats, caps, bonnets, and other decorative head pieces worn by the *gals*. To keep pace with their singular caprices in this matter, establishments have been erected to manufacture, remodel and amend for them. The Straw Works of T. Gill & Co., on Third street, is such a concern, where the darlings can have their bonnets, hats and caps pressed into any shape they may desire.

Descriptive Catalogue

—OF THE—

INDUSTRIAL EXHIBITION

Of the Mechanics' Institute, 1865,

COLLECTION OF MINERALS, ETC.

—INCLUDING—

Minerals, Mineral Oil, Fossils, Curiosities, Models, Etc.

Contributed to the Exhibition of the Mechanics' Institute of 1865, through the care of Dewey & Co., proprietors of the Mining and Scientific Press.

CONTINUED.

306 A. Graham, Puca Straits, W. T.: one piece Coal.

307 W. R. Frick, San Francisco: lot of Mineral Specimens.

This entry consists chiefly of different varieties of silver ore from Washoe; also, a specimen of lava and one of coral from the Sandwich Islands.

324 Thos. H. Morrow, San Francisco: one case Gravel Specimens, from the American North San Juan Co. Nevada Co., Cal.

This sample of specimens shows the character of what is called the cement gavel, which is found in such immense quantity through the larger portion of the deep hydraulic diggings of Nevada and Placer counties, and in other sections of the State where deep diggings occur. The samples exhibited are from the claims of the American Company, at North San Juan, Nevada county. They are kept in water to prevent them from slacking and falling to pieces by the action of the atmoshere.

426 F. Morris & Co., San Francisco: large specimen gold and silver bearing Quartz,

This massive specimen of gold bearing sulphurets is from Sandy Gulch, Calaveras county. It is indicative of a very valuable mine; but we have no farther particclas witb regard to its location und condition tban that which is giveu above.

484 Henry Ross, San Francisco: one specimen Silver Ore; one specimen Plumbago, from the Silver Era mine, Summit City, Alpine Co.

489 T. B. Cunningham, Secretary, San Francisco: two specimens Argentiferous Galena, from Emilia Mining Co., Mexico.

These blocks, one of about fifty and the other of five pounds weight, are beautiful specimens of bright argentiferous galena, from the Emelia mine, located in Guerrera, Mexico.

490 A. Layrus, Placerville: specimens gold bearing Quartz.

These specimens of rock. altbough tbey show but little gold to the uuked eye, are nevertheless said to he very rich. Tbe company owning tho ledge is incorporated under tbe name of the "Blue Ledge Quartz Mining Company," and is quite distinct from the Blue Ledge G. and S. M. Co. of this city. The richness of the rock warrants the expense of hauling it quite a distance for erushing. It is generally of a peculiar blue cast—hence the name of the ledge.

494 E. Wasserman, San Francisco: lot specimens of Ore.

498 Mrs. B. R. Blake, San Francisco: specimens of Stalactites.

These elegant specimens of stnlactites are formed in very much the same manner as icicles from dripping water in cold weather. The water in this case is charged with particles of lime, beld in solution; this water, as it trickles down from tbe walls or roof of the eave, gradually deposits its particles of lime, leaving them hanging in the form of stalactites from the rock. The water, thus dripping, sometimes also builds up a pyramid of lime from the surface upon wbicb it commences to drop.

514 C. T. Meader, Stockton: rich samples Copper Ore, from Calaveras and Amador Counties.

The above entry contains the finest samples of native copper and copper ore which has ever been seen in this city. They are from the "Union," Newton aud Cosumnes mines, in Tuolumne and Amador counties, the chief portions of which are owned by Mr. Meader, the exhibitor. Mr. M. has taken much pains to send them to this city as contributions to the mineral display at tbe pavilion. They are from his office collections at Stockton, whither they will be returned after the close of the exhibition. The cabinet specimens in the show-case are really elegant. Tho two samples of filiform crystalization, with their soft, massive and moss like aggregations, are perfectly *unique*. The samples of variegated ores in the same case afford a beautiful illustration of some of the processes of furnace crystalization, which take place under the action of the heat required to raise the per centage of the lower grade of ores to that represented by what is known as copper 'matte." Included in this collection is a large mass of very rich yellow sulphurets of copper, from the Union mine, a fair average of that class of ore, which weighs 1,205 pounds. This is, beyond doubt. the richest mine of copper in the world. There is also a massive specimen of the same class of ore, coated with black oxide, or perhaps a thin film of blue sulphuret, which must weigh nearly a thousand pounds. A very fine brick of smelted copper is also exhibited, from the Meader smelting works connected with this mine.

518 O. W. Easton, San Francisco: one Shell Fossil; one sample Coal, from near Mayfield, Santa Clara Co.

This coal is claimed by the exhibitor to be of true bituminous character, and being found in near proximity to the accompanying fossil, that fact is thought to be a strong indication of the presence near by of a genuine deposit of hard cannel coal.

519 E. D. Waters, San Francisco: specimens Gold Quartz, from Eagle Company, Amador Co.

525 Charles Beiderman, San Francisco: one tray and one box of Precious Stones.

Tbis collection is very interesting and attractive. It shows tho precious stones; first, as they are found imbedded in the containing earth, which is a trachyte of sedimentary deposition; second, the stone, liberated from the surround ng earthy matter, und then the same after it has passed through the lapidary's hand. and been cut and polished. The opal is a variety of quartz, being composed of from 88 to 91 per cent. of silex, and from 7 to 9 per eent. of water, with a trace of foreign matter, from which it chiefly derives its color. The color of the opal is white, yellow, red, brown, green or gray The dark colors are derived from foreign substances, such as iron, alumina, manganese, nickel, etc. It often exhibits a play of rich colors. The fine opal, the most precious variety, presents bright hyucinth, red and yellow reflections. The less common varieties are distinguished and valued by their degrees of transparency and lustre. The pure opal, when large, and exhibiting its peculiar play of colors, in perfection, is a gem of high value. It is cut with a convex surface. The largest opal known. is in the Imperial cabinet at Vienna, and weighs seventeen ounces. It is as large as a man's fist; it is quite imperfect, however, and is prized more for its massiveness than intrinsic value. The best pure opals are brought chiefly from Zimapan, Mexico, and from the Faroe Islands.

The opals now on exhibition represent several of the numerous phases which this variety of precious stone assumes under its different modifications. They are found on a mountain called Stockton Ridge, about a mile distant from Mokelumne Hill, and in a trachyte strata, deposited by running water, and overlying deep placer gold deposits, such as are usually known as "hydraulic diggings." in various parts of the State. They were first observed in the earth thrown up while sinking a deep shaft, and the strata in which they occurred was subsequently traced to its outcrop at the surface, a short distance from tho sbaft. Here tunnel operations were commenced, and it is found that the character of the stones improve in quality as depth is gained by going into the hill. They are found in three separate strata, about two und a balf feet tbick, altogether, but separated from each other by a small space of earth barren of precious stones. The most of the opals exhibited are found near the surface. There are several stones in this collection, however, apparently of the emerald variety. having a blue and greenish tint. These probably contain a noticeablo quantity of aluminum, and glucinum. The composition of this variety of precious stones, when approaching to their most perfect state, is about 67 per cent. of silex, 17 of aluminum, and 16 of glucinum. These stones are found at a much greater depth than the opals—at about 200 feet from the surface, and imbedded in a coarse gravel, cemented with blue clay. The proprietors of this claim are steadily at work developing the same by further explorations. They have much encouragement to do so from reports which they have received from a small sample of specimens which were sent to Paris, a few months since, and there submitted to the examination of European experts. The exhibitor, Mr. Charles Beiderman, corner of Howard and Third streets, is one of the proprietors of the claim, and bas done much in carrying forward the work of adding this new source to the already extended list of California's mineral productions. He intends soon to have his collection carefully examined by competent parties, and the various stones properly classified. This exhibition may be elassed as one of the most interesting in the Pavilion.

533 W. H. Martin, San Francisco: one barrel Benicia Cement; one box Cement Rock.

The operations of this company have fully proven that large deposits of genuine hydraulic cement exist on this coast, and that California need be no longer dependent upon the Rosendale cement for hydraulic mortar. No better "Roman cement" can be produced in the world than is being exhibited by the Benecia Cement Company; and it may be a matter of public interest to know that the company is now able to supply the fullest wants of tbe Pacific coast for this important article.

538 W. P. Patton: samples Copper Ore.

540 C. L. Taylor, San Francisco: specimen Crystalized Quartz, from Mexico.

A very fino crystaline deposit of sulphate of lime upon a base of metamorphosed trap rock.

544 F. R. Anthony, San Francisco: two specimens Copper Ore, from Campo Seco Mining Co.

These are very fine massive specimens of yellow sulphurets of copper; and give most unmistakable evidence of a heavy concentration of a most reliable vein of copper ore.

558 Sullivan & Cashman, San Francisco: twelve bars of Copper.

These bars of copper were smelted by N. Haskell & Co., of Mariposa county. Mr. Haskell claims to have produced the first bar of copper ever smelted in California. This is a portion of a lot of 138 bars (five tons weight), from ore from the Lone Tree and Dogier mine, in Hamilton district, Mariposa county. Messrs H. & Co. are now prepared to turn out from ten to twelve tons per week of copper bars of ordinary commercial fineness. These bars were from ores of carbonates and oxides, and were smelted at one operation. They possess the malleability, toughness and color of the ordinary imported article, and are about 96 per cent. pure. Tbis production. in connection with that turned out by Meader & Co., at Copperopolis, forms an important epoch in the progress of the metallurgical industry of California.

561 A. M. Ebbets, San Francisco: specimen Fuel Coal.

This specimen of coal, which weighs 150 pounds, and the one adjoining it, are both from the same locality. A close examination of these specimens will show the intelligent observer that they are quite superior to the common lignites. The proprietors are quite sanguine of eventually attaining, as depth is obtained, a very fair specimen of bituminous coal.

564 J. W. Reed, Simmons Springs, Colusa county: Remarkable Petrification, and specimens of Fossils.

The specimen marked A is a terebratella Whitneyi, Gabb, from the miocene tertiary formation.

B is an inoceramus piochi, Gabb. a fossil bivalve shell, from a cretaceous formation, and occurs in immense mountain masses.

C is an inoceramus cast occurring in a cretaceous formation. These inoceramı are of unusually large size for this species, larger than any ever beretofore found.

D is a specie of ammouite, from the limestone of Colusi county.

E is a very perfect specimen of the inoceramus, indicative of the cretaceous formation.

F Volcanic glass or "pitch stone" enclosed in trachyte.

565 O. Butterfield, Ashton, Colusa county: specimens of Native Copper; one Petrifaction.

The specimens of native copper and copper ore indicate a mine of extraordinary richness. This mine is located about twenty-five miles north of the Bear Valley oil district, has been opened at five different points, from ten to fifty feet deep, und shows a width of five feet at the latter point. The ore occurs mostly in bunches, no well defined vein having yet been discovered. Abont fifty tons of thirty to forty per cent. ore has been received from this mine. There are quite a number of other promising mines in the same neighborhood. The accompanying specimen in this entry is a calcareous concretion, formed in all probability over projecting roots or twigs, which have parted with their organic structure and themselves become changed to lime. From their separate crystalization they have to a great extent separated and fallen from their calcareous covering. It was obtained from Simmons' Springs, near Bear Creek.

566 Prof. W. M. Gabb, San Francisco: three Fossil's.

These beautiful and interesting fossils were found in Sbasta county, and are known, one as a Beterie, quite perfect, and a large fragment of the same; the other is a Ramosa. Two of them are curiously worked with, as it were, beautiful arborescent sculpture, which, however, is the work of nature, that has been accomplished in the long ages during which the shell, and the fish which once inhabited it, has been gradually transformed into silicious and calcareous matter.

569 Henry S. Macomber: specimens of Plumbago, from Eureka Plumbago Mining Co., Sonora, Tuolumne co.

These samples of plumbago appear to be of a very exeellent quality, and the mine is said to surpass in extent any similar mine in the world. Large quantities are now being shipped to the East, where the mine is obtaining much notoriety for its superior character and extent. The proprietors are thus opening up another important branch of our mineral resources, and adding still further to the wealth and commerce of the Golden State.

570 Flora Company, Florence ledge, Alpine county: lot of specimens.

These specimens are from the Flora company's claim, Florence Ledge, Alpine county, California. They eonsist principally of sulphurets of silver, with probably some chlorides. This ledge is offered for sale, through the exhibitor, who may be addressed at Placerville.

571 I. N. Thorne, Secretary of the North American Tin Company: samples of Stream Tin Ore, from Durango, Mexico.

This sample of tin ore, with the exception of the two large, angular fragments, is what is known as stream tin, and is washed from the river beds, being separated from the mass of earth and rocks by its specific gravity. This sample is variously made up of oxides, sulphurets, tin pyrites, etc. It is all very rich in tin.

572 A. Habich: Silver Ore from Columbus district, Nev.

This lot of ore is from the newly discovered mining region known as the Columbia district, situated about sixty miles east of Aurora, Esmeralda. The finer specimens of this ore are what is known as copper and silver glance, and are very rich in the latter metal.

573 Gold Point Ledge Mining Company: Samples of Ore.

These ores are from ledges located in Reese River, in Summit and Amador districts; several specimens of ores from the newly discovered Kearsarge district, to the west and south of Esmeralda, are also included in this exhibition.

575 A. S. Hallidie & Co., San Francisco: specimen of Atlantic Cable.

These sections show the manner in which the new Atlantic telegraph cable is made, and the manner in which the shore ends of the same are protected by an extra covering of stout iron wire. Sections are also exhibited showing the manner in which the coatings are built up in deep sea cables.

576 Dewey & Co., Mining and Scientific Press, San Francisco: lot of Specimens, Ores and Curiosities.

This entry consists of a variety of ores, fossils, etc., among which are to be found elegant crystals of rock salt, from a mountain of the same on the Colorado; crystals, almost pure, of native Alum; a beautiful crystal of Wolfram or tungstate of iron, a rare and beautiful iron ore, sometimes associated with tin; a small specimen of gold, of the rare and beautiful filiform order of crystalization, and entirely free from foreign matter, is also exhibited; also stephunite, a rich and beautiful variety of silver ore, containing about 18 per cent. of sulphur, and 10 or 12 of antimony. The only specimen of ore from all the rich and productive mines of Grass Valley are in this collection, and represent the recently opened, but very rich mines known as the "Lucky" and the "North Star." We have also here a very fine specimen of gold bearing quartz, from the newly discovered lode located about four miles from Strawberry Valley, Yuba county, contributed by Dr. L. W. French, of La Porte, Sierra county. The specimen is very rich, containing much fine gold. It was taken from a depth of 40 feet, ledge five feet wide. The rock is expected to average about $40 per ton.

577. Timothy Hinckley, Jackson, Amador county: one Gold Specimen, valued at $2,000.

The mine from which this specimen was obtained, is located in Jackson, Amador county, and was discovered two years ago, since which time $11,980 have been taken out. The gold chiefly occurs in pockets, from the largest of which $5,000 was taken. The last pocket yielded $500. The mine has been opened only seventy feet, and has widened from two to six feet in that distance. The pockets seem to be giving out in the depth, but the general indications for a paying mine are improving. The mine appears to be on a true fissure vein, the eastern hanging wall of which is granite, with a foot wall of slate. It passes directly under the house where the discover, Mr. Hinckly, bas lived for eight years. This specimen contains more gold than its appearance would seem to indicate. Its specific gravity—an unfailing index—is said to show its intrinsic value to be about $2,000.

598 William Williams, San Francisco: Specimens of Copper and Silver from the Sauce mine, Lower California, Mexico; grey copper ore from the Giantess mine, same locality.

This is an extensive and quite unique collection of copper ores, from Lower California. The ore containing native copper is from the Sauce mine, located about 200 miles above La Paz, and only sixteen milee from the port of San Bruno, where the steamer John L. Stephens calls on her trips up and down the coast. The most singular specimen in the collection is one containing both native copper with native silver. Such specimens are rarely found in any mine, although native silver and native gold has been found associated, and native copper in Plumas county, in this State. The gangue rock, like that of the La Vietoire, in Mariposa county, ie composed of a micacious talc, eontaining very little, if any, silicious matter, and ie, no doubt, of plutonic origin, indicating a true fissure vein. The native copper is mostly found in thin scales or sheets, the latter at times being quite massive. This very singular class of copper ore is well worth the attention of copper miners, as it differs so very much from the ordinary ores of copper that, unless very rich, it would often be passed over unnotieed by the prospector. There is a large bar of copper, weighing 64 pounds, taken from 140 pounds of this ore; also a smaller one, containing quite a noticeable quantity of gold, taken from ore from the same mine. Tbis vein has been opened to the depth of about 100 feet, at which point it is said to be sixteen feet tbick. There is also exhibited with this collection, and in the same case, a lot of very fine specimens of gray ore of copper from the Giantess mine, in the same district. The peculiar character of this ore renders it very difficult to arrive at a fair average of its assay; and as buyers here are unwilling to take much risk, the proprietors, finding themselves unable to obtain what they reason-

ably think n fair value for the ore, will hereafter ship it to Swansea, to be worked on their own account. The mine belongs to Capt. Wm. C. Hyde and W. H. Blossom, Esq., of this city.

621 Capt. J. M. Aiken, San Francisco. Two pieces of rich gold bearing rock, from Mariposa Co., Oak Mine, Hunter Valley; five pieces gold rock from the Western Virginia mine, Mariposa County.

These are very fine specimens of auriferous sulphurets in a silicious matrix, showing much free gold in immediate contact with the sulphurets.

629 H. G. Bennett, San Francisco: An interesting variety of Geological Specimens.

Included in the above are several very curious and rare specimens of asbestus, among which we may mention fibrous asbestus, mountain cork, and mountain leather; the two latter are so called from their close resemblance of the articles from which they are named. He also exhibits several specimens of very beautiful opalized wood, such as is often mistaken for the genuine opal itself. We have also crystals of copper formed by nature, and other crystals of the same metal formed by art, through galvanic agency, so nearly resembling the work of nature that one would be readily taken for the other. A specimen of genuine meerschaum, (silicate of magnesia), a California product, is also exhibited by Mr. Bennett; also several California rubies and opals, and a California diamond. There is also in this collection a specimen of "float stone," which will float upon the water—a variety of quartz arranged in fibres, or filimentary crystals, aggregated into a spongy or porous mass. This is quite a mineral curiosity. Several very fine specimens of chloride of silver, showing also native silver, are included with other minerals in this entry.

628 Dewey & Co., San Francisco: Curiosities.

We have in our collection, at the Pavilion, small particles of the famous Monitor, Ericsson's first turretted ironclad, and her rebel antagonist, the "Merrimac." The first is an iron specimen and the latter pine wood—each singularly emblematic of the result and fate of the vessels and the powers they represented. The samples are from our excellent friend I. A. Heald, machinist in the Washington Navy Yard and leader of the *American Brass Band*. The scrap from the Monitor is a portion of an iron splinter scaled from the plating by the heavy balls of the Merrimac. It was forwarded to us, by mail, at the time the former was being repaired at the Capitol Navy Yard, after its wonderful engagement at Hampton Roads. The wooden mite of the Merrimac is from a floating fragment picked up by the officers of the steamer Massachusetts, (directly after the blowing up of the defeated confederate craft by the rebels) and brought to the Navy Yard at Washington.

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ADDITIONAL.

8 E. Vache & Bros., Los Angeles: one jar of Cream of Tartar.

This sample of Cream of Tartar, was manufactured by the exhibitor, at Los Angeles. San Francisco agency, 605 Sansome street.

219 J. C. Gaffin, San Francisco: Four specimens of Argentiferous Galena.

These elegant specimens of argentiferous galena are from Washington district, Lander County, Reese River. They are associated with lime, and are among the finest specimens of that class of ore in the Pavilion.

305 A. Graham, San Francisco: One specimen of Coal.

This is a specimen of a very superior character of lignite, and is from the same locality as its neighbor, No. 561.

339 L. C. Hunter, San Francisco: box specimens of Lava from Kilauea, Sandwich Islands.

These specimens are very neatly arranged in a case with compartments, covered with glass, and so disposed as to show very distinctly and beautifully the variety of color and form found in the eruptions from this celebrated volcano.

481 Henry Ross, San Francisco: Plumbago from the Silver Era mine, Alpine County.

The above specimen may be seen in Capt. Aiken's case, and was entered, as above, for "plumbago." On a careful examination however, it proves to be a sulphuret of molybdena, having the formula of sulphur 40 and molybdenum 60. It may be readily distinguished from plumbago by its making a greenish mark upon crockery, also by its giving off fumes of sulphur under the blow-pipe.

491 E. Wasserman, San Francisco: Samples of ore from Mexico.

These specimens consist of gold, silver, and copper ore combined, being an average lot of specimens from the La Favorita mine, Lower California.

519 Noble Oil Well Company, San Francisco: one jar of Crude Petroleum.

This oil is from the Noble Oil Well, on Mattole Creek, Humboldt county, and was obtained August 22d, 1865, at the depth of 168 feet. The specific gravity of this oil is 40°. It is considered a very superior article for crude petroleum.

521 Valparaiso Mining Co., by Henry N. Kemp: five specimens of gold bearing Rock.

These specimens are from Tuolumne county, and contain a notable quantity of sulphurets, rich in gold. In some of the specimens large amounts of free gold is visible.

622 Macdonald & Bro., San Francisco: one gold specimen from Williams Creek, Cariboo, British Columbia.

This specimen weighs a little over two ounces, and affords very good evidence of the existence of rich quartz veins in that region.

623 J. M. Aiken, Coulterville, Mariposa county: one specimen of Crystalized Copper, from Arizona.

This is a beautiful specimen of native copper, apparently passing into a red oxyd from atmospheric action. It is sometimes known as "tile ore." This oxyd is of a bright red color, and, when pure, is about 88.12 per cent of copper, while the black oxyd contains but 20.13 per cent.

624 J. M. Aiken, Coulterville, Mariposa county: one specimen Magnesian Wire: one Indian Spear-head.

This wire is the same that is used for producing the brilliant light, of which so much has recently been said, as one which may eventually be used for illuminating cities, light-houses, etc.; and which has been found to produce a photograph with as much distinctness as the light of the sun. When ignited it emits a flame of most intense brightness, throwing all other illuminating agents, except the electric light, quite into the shade. Mr. Keith, the apothecary, at 321 Montgomery street, has a quantity of this novel metallic illuminator on hand, the effects of which he will be happy to exhibit to such purchasers as may be curious to witness the same.

625 Chas. M. Plum, San Francisco: three specimens of Silver Ore, and one of Sulphuret of Mercury, all from Mexico; a mineral picked up on the Rocky Mountains—probably an agate in the rough.

The above specimens furnish the usual characteristics due to such minerals.

626 S. M. Lamborne, San Francisco: one piece of Live Oak having two barks.

627 H. C. Bidwell, Indian Valley: one box of specimens.

These specimens consist of gold bearing quartz, from five different ledges in Plumas county, representing the following companies: Right Stripe, McClellan, Creole, Union Mine, and the Eureka. They are not exhibited as rich specimens, but as average samples of ore taken out from the mines mentioned.

638 Kellogg, Hewston & Co., San Francisco: samples of Sulphate of Copper.

These specimens of sulphate of copper, the blue vitroil of commerce, are elegantly and tastefully arranged, in prisms, pyramids, etc., and make a fine show. The crystallization is very fine. This material is employed in dyeing operations, in the printing of cotton and linen, and for various other purposes in the arts. The samples on exhibition were manufactured by Messrs Kellogg, Hewston & Co.

615 Miss Plank, San Francisco: Specimens of Silver ore, and Silver Bullion.

One of these specimens of ore is beautifully bespangled with chrystals of stephanite, one of the ores of silver. The ore is from the Batosegachic mine, Chihuahua, Mexico, and is owned by Philip Plank, Esq., formerly of this city. The pure silver was run out from the ore in a common furnace, leaving the slag still rich in the precious metal.

652 Thomas Armstrong, San Francisco, late of Durango, Mexico: specimen of Tin Ore.

This ore is from near the same locality as that exhibited by Mr. Thorne, Secretary of the North American Tin Mining Co., Durango, Mexico. The company, of which Mr. Armstrong is a member, is known as the Durango Tin Mining Company; they hold a title to a tract of twenty five miles square, from both the Imperial and Liberal government in Mexico. The samples exhibited are mostly taken from the gulches, in nearly all of which this ore is found. These mines must soon become very valuable. The ore is of extraordinary richness, and abundant beyond precedent in the history of tin mines.

659 I. N. Thorne, Secretary, San Francisco: four bars of Metallic Tin, with samples of Tin Ore, from the North American Tin Mining Company.

These fine specimens of tin ore are from the grounds of the North American Tin Mining Company, State of Durango, Mexico. The company own a tract of land comprising upwards of seven hundred square miles, which is everywhere intersected with rivers and gulches, and along the banks of which are innumerable veins of tin ore, varying from two to seven feet in thickness, and containing ore which often assays as high as 75 per cent. of tin. The streams nearly all contain greater or less quantities of oxide of tin, usually in the form known as kidney ore, from its resemblance in color and shape to that organ. This ore is supposed to be formed in the mine, by aggregation, on the same principle that carbonates of copper are formed, by the decomposition of the sulphurets. We understand that it is the intention of the company, at an early day, to place a small portion of the stock in the market to raise a working fund for opening up the mines. It is said that the ore can be collected, and the metal run into crude bars and delivered at Mazatlan, for about $150 per ton; while the same is worth $400 per ton in Liverpool. The four large bars of metal are just as it is produced from the furnace; while the small bright bar is refined tin.

564 J. W. Reed, Simmons Spring, Camel County: A remarkable Petrifaction. [This is the same petrifaction to which allusion has been made under this number, where it appears in a previous page.]

This a very remarkable specimen of calcareous petrifaction. It is about the size of a man's clenched fist, and very much of such a shape. It was recently found by Mr. Reed, in Bear Creek. At the extreme front thereof are the distinct remains of what were thought to have been iron nails, about six or eight penny in size. The petrifaction was once evidently a hard, close grained piece of wood, and the question naturally asked, was, "Who drove those nails in that wood?"

Petrifaction itself is really but little understood. It is one of the secret, quiet operations of nature, that in the present state of human knowledge, can only be faintly explained. Its process is curious beyond parallel, and is of a nature similar to the physiological phenomena of the assimilation or conversion of nutriment into the fluid or solid substance of the animal body. It is universally conceded that the process of wood petrifaction is very slow; requiring ages for its consummation; yet authenticated cases of the total or partial petrifaction of the human body in a very short space of time, are quite common. Several occur to us as we write—one that of an elderly woman buried in Philadelphia in 1857. The grave was opened in May last, when her body was found completely petrified, and as perfect in form and appearance as when placed there, with the exception of the nose which, alone, was slightly decayed. It required the united strength of eight men to raise the body from the grave. When the grave was dug, a spring of water strongly impregnated with lime was struck, and flowed so freely that it was found necessary to bail it out before lowering the coffin. Hence the phenomena. The time which had elapsed had not been sufficient to at all affect the coffin. The body, however, from its more perishable nature, had yielded—as it is generally conceded that the tissue, whether wood or flesh, must decay to give place for the petrescent particles.

We have no doubt but that the petrifaction from Colusa, for such it really is, is of quite as ancient an origin as the numerous instances, and great masses of petrified wood so often found in nearly every portion of our mines. What appears to be nails is nothing but a deposition of iron, in the form of elongated crystals of sulphurets of iron. A close examination would appear to settle that matter beyond a doubt. We often hear of petrifactions being formed in a few weeks, or even days, in some springs of a peculiar mineral character containing large quantities of lime in solution. These petrifactions, however, are merely incrustations. The stoney matter having been newly formed over and around the wood, inclosing the same, as it were, in a closed case; but not displacing the woody fibre, as is done in a true petrifaction. Fleshy matter, under certain favorable circumstances, as in the instance above cited, may be petrified in a very short period of time, from the fact of its early decay, allowing a rapid displacement of its particles, and its entire conversion into calcareous matter, the only character which such rapid petrifactions assume.

— W. B. Warren & Co., San Francisco: samples of Lustrina, for polishing Metals, and the Mineral from which it is made; also, specimens of Silver Ore from the De Soto Mine.

The mineral from which this polishing powder is made, is said to be found in great abundance, but we are not advised of its locality. The manufactured article is very useful for polishing and cleaning metals and glass.

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We notice among the minerals not numbered, or but recently entered, a fine large specimen of gold and silver ore, from the Social Company's lode, Eagan Canon, Reese River. If Reese River has been late in making her appearance at the Pavilion, or fails to show a large number of samples of her mineral, she has now made ample amends in this mammoth specimen from one of her rich mines. It will weigh several hundred pounds, and has every appearance of being very rich, showing free gold upon the surface, and any amount of decomposed sulphurets, apparently rich in that metal, to say nothing of the amount of silver which it may contain.

We also notice a box of ore from the Planet Mine, William's Fork, Arizona. This is a copper ore, and, judging from its appearance, we should think it might contain a notable per centage of silver. The Planet is well known as a rich and promising mine.

Nahl Brothers & Dickman.—The gentlemen comprising this firm have long ranked among the most celebrated of our artists, in oil, crayon and photography. Their display of pictures in the art gallery of the Pavilion bears testimony to the superior character of their work.

[From the Daily Fair Press, Monday, Sept. 4th.]

THE EFFECT PRODUCED.

So far in the history of the Industrial Fairs given by the Mechanics' Institute, the best of good feeling has existed between the managers and the public at large. The former have succeeded in discharging their delicate and responsible duties so as to give general satisfaction. If there has been any disappointment or growling among exhibitors, it was no more than might have been expected. The public have not only been satisfied, but delighted. Their patronage has been magnanimous and continuous. In fact they were so well pleased that they have, in numerous instances, expressed a hope that the Mechanics' Institute would go forward and erect a capacious and permanent edifice for the holding of annual Fairs hereafter.

We heartily indorse this suggestion. Such a structure is demanded by the growing wants of the country. We have hosts of inventors who are yearly adding to the improvements and simplifications of machinery. It is desirable they should have some point of rendezvous; some place in which to exhibit the works of their genius; where they might receive material benefits in the way of affording and acquiring instruction. A man of quick perceptive faculties not unfrequently obtains a hint from a mere glance at some new principle in mechanics, which lends to the enrichment of this branch of science. In addition, the public at large receive pleasure and benefit from visiting such exhibitions; and it is their voice which now demands the erection of a substantial pavilion for the uses of the Institute, where goods may be placed and kept, if it is thought proper, without disturbance or removal. A department devoted especially to the display of minerals, is greatly demanded; and in it, with properly directed effort, might be placed such a collection as would astonish the savans of the world.

The mechanics of this city have excellent credit. If their funds are short they can purchase a lot and erect a building upon it, by executing a mortgage against the same, and pledging the proceeds of their Fairs for a certain number of years, to secure payment. We hope they will give this matter consideration; and if the suggestion is practicable, proceed at once upon it. They will have the good wishes and co-operation of the people to sustain them in their enterprise.

Something New and Interesting.—When the lover of a cup of good coffee sees the grains from which it is distilled put into a hopper and turned out in form ready for use, he is capable of judging whether he has been drinking coffee, rye, or chichory. At the Metropolitan Steam Coffee and Spice Mills of Messrs. Sterlitz & Co., 25 Second street, he can, if he thinks proper, witness the whole process of grinding, both by steam and man power, and satisfy himself that no imposition is practiced upon him. They grind at these mills nothing but coffee; and rest their reputation upon the character of the article as represented. If coffee drinkers wish to procure an article pure and unadulterated, they must call at these mills to obtain it.

The Latest Entry.—Last, though not least among the entries at the Pavilion, is some sample specimens of "Brown's Metallic Weather Strips and Window Bands," a much needed article now being introduced into this city, and employed to keep the dust from shaky windows and doors, which are almost inseparable from this dry climate. These strips also prevent the unpleasant rattling of windows, keeping out the wet as well as the cold and dust. The invention is highly spoken of by all who have used it. O. W. Easton is the Agent for its sale on the Pacific coast. The samples at the Pavilion may be seen among the articles connected with the Mining and Scientific Press exhibition.

Receipts of the Fourth Week.—The receipts of the Fair last week were as follows: On Monday, $611; Tuesday, $525; Wednesday, $724.80; Thursday, $769.75; Friday, $928.60.

Receipts.—The receipts of the Fair, including Saturday evening, amount to $26,189.50.

To Correspondents.—We have received, from an attentive correspondent, "J. R. M." a full description of the mines and mill of the Confidence Mining Company, of Reese River. This communication should have appeared last week; but the demand on our columns by the Exhibition of the Mechanics' Institute, compels us to leave it over even another week. We trust our correspondent will bear with us in our emergency. We have also been compelled to lay over quite a number of other communications from different correspondents, for the same reason; all of which will receive attention at the earliest moment. We shall also re-commence our usual "Mining Summary" with next week's issue, and shall make it a point to pay especial attention hereafter to this important feature of the Press, and one in which so many of our readers are personally interested.

From Humboldt.—We have just seen a letter in the hand of Prof. Rowlandson, dated Napa, Sept. 7th, from parties interested in the Allen and Sutter oil well, on Mattole creek. The letter is in acknowledgement of the receipt of several small packages of oil refined by the Professor from the crude article from the above named well, expressing much gratification at the superior quality of the same, etc.; also refering to a rumor, uppareutly well authenticated, that this company has developed a flowing well. If this report is not strictly correct, we presume it is simply premature, as from developments already fully established, there can now be but very little doubt, that oil will soon be found there in such abundance as to render it of great importance.

Arizona Consolidated Mining Company.—Several changes of importance have recently transpired in the management of the above named company. At the meeting of its Trustees, on the 26th of August, Mr. James S. Spann, was appointed Superintendent of the Company's mine in Eureka District, Arizona Territory. With an ample credit, and a well selected bill of provisions, he has already started for the mines, and is sanguine of being able soon to ship paying quantities of rich, argentiferous galena ore, similar in quality to the fine 650 pound specimen exhibited at the Industrial Fair of the Mechanics' Institute. At a subsequent meeting, held September 5th, the office of the Company was removed from No. 6 Montgomery Block, to the office of Dr. E. F. Bunnell, No. 611 Clay street, where stockholders and others interested may obtain further information from Mr. George W. Bunnell, the present Secretary of the company.

The Institute Medal.—The Executive Committee of the Mechanics' Fair have had a gold medal prepared, to be awarded to that invention, manufacture, representative article or articles of utility, which shall be adjudged, by a committee of award, duly selected, worthy to receive it. The merits of the particular object or article must be considered *paramount.*

The medal is about the size of a Mexican silver dollar, and is set in a wreath of gold leaves, delicately chased, intermixed with pearls. The wreath is surmounted with a gold band tied into a bow-knot. The medal is sustained in the wreath by axles or pivots, and revolves at pleasure. It is a very beautiful production of art. It was manufactured by Mr. Mitchell, the maker of the splendid San Francisco made gold watch on exhibition, and weighs—wreath included—about two ounces. The obverse side contains the words, "Progress, genius, invention." The reverse is inscribed, "Awarded to," etc., etc. This fine medal may be seen in a show-case as the visitor to the Pavilion enters the door of the right hand art gallery.

Close of the Fair.—To-day is the twenty-seventh day of the Exhibition, and we expect the Fair will close to-night with a full house. We have endeavored to furnish a full report of the display, and shall next week resume our usual variety of reading.

From the Daily Fair Press, Friday, September 9.

Portland Boiler Works.—We have frequently mentioned the fact, through the columns of the Press, that we had no branch of mechanical industry that more richly deserves the fostering patronage and admiration of our people than the heavy work performed by our mechanics in iron. The building of high and low-pressure boilers, which are capable of passing the scrutiny and hydraulic tests of the Inspector, is something to be proud of, in a city yet in its swaddling clothes. And yet this triumph is one of our boasts. Moynihan & Aitken, of the Portland Boiler Works, on Mission street, can exhibit workmanship in this line which will force admiration. Success to our mechanics! It is they who make a people great, as education makes them free. Hence they are united in accomplishing a common object, for skill in labor demands mind; while education merely expands and enlightens.

The Tooth Ache.—The intensity of the pain accompanying this human malady is illustrated in the anecdote told of the German farmer. He was making a journey on horseback, when he beard cries of pain proceeding from a voice among the bushes by the roadside. He dismounted and proceeded to the spot to ascertain the cause. "What ish te matter," he inquired of the unfortunate victim of a severe accident. "O, help, help!" exclaimed the injured man; "I have fallen from a tree and had my leg broken." "Ish tat all!" replied the farmer, very philosophic lly, "I thought you had ze toothach!" No doubt toothache is one of our most painful of afflictions; but Dr. Belle has an apparatus on exhibition at the pavilion which "knocks" it. His system is to *freeze it out!* that is to say, he chills the gum, silences the ache, and jerks out the tooth without causing pain to the subject operated upon.

Undertaking.—The honors of burial are greatly esteemed, not only among civilized, but also barbarous nations. The Chinese are an example of a people who religiously observe the custom, and in some of the minute features of their burial rites, are not even surpassed by the Christianized nations. If these varlets have so nice a perception of what is due to the dead, how much keener should be our appreciation of the duties involved in the solemn rite. According to our faith, the corruptible becomes incorruptible, and he who departs from us, merely "lies down to pleasant dreams." Let the dead therefore be decently composed, and consigned to the tomb with all proper respect. To accomplish this laudable purpose, call on Atkins Massey, undertaker, 651 Sacramento street.

Merchants' Mutual Marine Insurance Company.—We would impress upon the minds of commercial readers the importance of patronizing this home insurance organization. The gentlemen who compose its officers are every way worthy of confidence, and in more ways than one are identified with your interests and those of your patrons throughout the coast. Our San Francisco merchants should not only patronize this company but go still further and recommend it to their neighbors.

The Institute Medal.—The committee selected to make the award of the Institute medal, which we have already described, is composed as follows: Gov. Low, Mayor Coon, Mayor Swift, of Sacramento, the President of the State Agricultural Society, the President of the San Joaquin District Agricultural Society, James Otis, Wm. Eckfeldt, and Gen. Halleck. The presentation of the medal is to be made to the fortunate winner, at the Pavilion, to-morrow evening.

Ruben's Wife.—It is to be hoped the Executive Committee are not going to forget "Ruben's Wife." Poor thing, she has suffered the disgrace of being a rejected picture, and had to be concealed in the Clerk's office, all on account of the scant nature of her apparel. This was no fault of hers, but of the artist, whose palate must have been deficient in paints at the time of finishing up his picture. Her husband, the Amsterdamian, occupies a conspicuous place in the Art Gallery, while she is disgraced. Such conduct is cruel. The chaste and lovely Helena Fermont did not deserve such treatment. Think of it—to be represented in a semi-nude condition, and dressed in skins at that, in the beginning of the sixteenth century, long after Griseldis and Ingomar had run their race, and puff-wigs were growing into fashion! The anachronism might be forgiven, but the brutality of the thing, never!

[OFFICIAL LIST.]

COMMITTEES OF AWARD

OF THE FIFTH INDUSTRIAL EXHIBITION.

Steam Machinery—C C Bemis, Thos J Winship, Henry S Smith.
Gears Machinery—J A Hobart, Wm H Scoville, John Roch.
Pumps and Hydraulics—I M Scott, Samuel Dinsmore, P Hesse.
Hats, Caps, and Furs—Thomas Yonng, J K White, J C Meussdorffer.
Men's and Boys's Clothing, and Woolen Goods—James Scrimgeour, C W Eanuge, John C Mitchell.
Furnishing Goods, etc—R O Atkins, Lewis Leland, H B Platt.
Cloaks, Dress-making, Millinery and Fancy Goods—Mrs M J Burke, Mrs. Thomas Young, Mrs H L Davis.
Embroidery, Fancy Needle Work, Fringes, Tassels, Chenille Work, Ladies' Dress Trimmings, etc.—Mrs C Vincent, Mrs Dunderburg, Mrs J O Williams.
Furniture and Cabinet Work—J Wigmore, John Bryant, W E Reed.
Upholstery—J O Eldridge, Samul J Fletcher, Chas Volburg.
Billiard Tables—Chester Brown, R N Van Brunt, J K Fitch.
Boots and Shoes—John Douglas, A D Campbell, T J Brodderick.
Trunks, Leather, Hose and Harness—Reuben Morton, David Scannell, Charles H Mead, John Fitzpatrick, D C McGillivray.
Cider Mills, Presses, Washing Machines, Brooms, Cooperage, etc.—Wm Gunn, Addison Martin, Wm H Hooper, C F Jones, David Pomeroy.
Agricultural Implements, Wheelbarrows, Hay Presses, Hay Cutters, Feed Boxes—E J Moore, Abner Doble, J A Hobart.
Brass, Lead, Wire Rope, Screws, Wire Work and Saws—J C Ayres, C H Robbins, E J Phelps.
Guns, Pistols, Fly Traps Fishing Tackle and Sporting Materials—Wm H Brown, gunsmith, John Orr, Lewis Coley, E W Leonard, Warren Loud.
Oil, Bleach and Stained Glass, Lumber, House and Boat Models Marble Mantels, Plaster Ornaments, Carpenter's Tools, Show Cases, Doors and Door Springs, Newell Posts, Scroll Sawing, Inlaid Work and Cordage—P J O'Connor, D Farquharson, E Roach, Joseph Ringer, W Boole.
Stoves and Ranges, Iron Pipe, Chimney Tops, Ventilators—J de la Montanya, J Bryan, Isaac Hyde
Cutlery and Surgical Instruments—Dr Holman, Lewis Leland, A W Rear, W Weichhart, Henry Wheeler.
Carriages, Buggies, and Vehicles of all Descriptions—J W Farren, J L Dignon, R S Eells, E W Byington Wm Ware.
Oil Paintings, Engraving, and Lithography—P Mezzara, F Vassault, — Koch, T A Barry, R J Van Dewater.
Architectural and Mechanical Drawings—E Farquharson, T J O'Connor, M F Butler, J M Scott, Joseph Monroe.
Penmanship—Dwight Bard, A G Doolittle, R N Van Brunt, Prof Knowlton, James Denman.
Gold Pens—R N Van Brunt, A J Doolittle, Dwight Bard.
Sculpture and Marble-work—F Arriola, O Gori, F A Butman, V Squarza, W Jewett
Wax and Fancy Work—Prof Miel, P Mezzara, F A Bulman
Musical Instruments—Geo T Evans, E Mezio, Prof Clark, Geo Kappitz, J W J Pierson, James Kendall, Geo Petitpos.
Sign Painting, Graining and Polishing—C Hopps, Thomas H Fletcher, Geo D Wyman.
Wines, Cordials and Bitters—S P Christy, J J Harkness, Jas Irwin.
Liquors, Ale, Beer and Cider—F C Belden, Philip Roach, P J O'Connor, Geo Hughes, G J Byrne.
Agricultural and Horticultural Products—J A Hobart, E J Ewell, C W Ilsin.
Floral Productions—Dr Thos Bennett, Mrs Joseph Rinpot, Mrs F E Harding.
Botany, Seeds, etc.—Dr Lanszweert, Theodore Baggo, S Adams.
Soaps, Oils, Candles, Yeast Powders, Lard, Extracts, Essential Oils, Spices, Mustards, Circassian Bloom, Eye Water, Hair Preservative, Concentrated Milk—Dr Lanszweert, Thomas Price, Royal Fisk,
Coffee, Bacon, Ham, Sugar, Vermicelli and Maccaroni—Thos Rowlandson Gardner S Hall, W Fisk Hitchcock.
Confectionary—Mrs G W Conkling, Mrs McComb, Mrs W E Loomis.
Matches—Geo S Dickey, M G Elmore, Samuel Perkins.
Minerals, Ores, Crystals, Paints, etc.—Prof G W Mims, H C Bennett, and Prof Nunan
Paper, Book Binding and Printing—Frank Eastman, A J Curtis, Wm Allen.
Silk, Cotton and Tobacco Culture—E Van Reed, H F Williams, and S Tyler.
Dentistry and Dental Chairs—Dr J B Beers, Dr Payne, Dr Galen Burdell, Dr David Burbank, and James Devoe.
Watch and Astronomical Instruments—James Anderson, W H Knowlton, and B B Horton.
Album Stereoscopes— — Snow, — Bennett, and Wm Bansman.
Coppersmiths' Work and Electrotyping—James Macken, O B Oakley, and W H S Clark.
Gilt Frames and Mirrors—John Brewster, W A Kohlmeyer, and E S Spear.
Miscellaneous Articles—C H Harrison, P J O'Connor, H W Bradley, C F Jones, and A S Hallidie.
Grain Separators—G G Beattie, R W Brown, and Lewis T Compton.
Inventions and Compounds—Dr. I. Rowell, Dr. Beverly R Cole, and Wm H Keith.

Insurance Agents.—Mrs. Hemans expressed a beautiful thought, when she wrote that—

"Leaves have their time to fall,
And flowers to wither at the north-winds' breath,
And stars to set—but all,
Thou hast all seasons for thine own, oh Death!"

No man has a moment's lease upon life, nor is any man's property—personal or real—secure from the accidents and incidents of daily occurrence. It therefore becomes an object for he who wishes to secure himself against the contingency of loss—perhaps ruin—to insure. If he designs engaging in a hazardous enterprise, where his life is in danger, by insuring that life, he secures a support for his family. In seasons of conflagration, insurance enables him to realize from his destroyed property. It is well, then, in both cases, to be on the safe side. Bigelow & Brother, are prepared to issue policies on liberal terms. The companies they represent possess a capital amounting to over *nineteen* millions of dollars! These gentlemen have occupied a promiuent position among our most reliable insurance agents for many years, are very active and substantial men, fully identified with the interests of California and the Pacific Coast. We are informed that they have paid losses during the past year of over $250,000, promptly in every case. Their office will be found at the N. W. corner of Sacramento and Montgomery streets.

Candy Moulds.—The Dellwig Brothers, confectioners and bakers, Fourth and Mission streets, have placed on exhibition in the Scientific Press collection of minerals and curiosities, a couple of wooden moulds, of German origin, made,—one in 1750, (which is, consequently, 115 years old,) and the other in 1781, which is 84 years old. The moulds are carved to represent two females, apparently queens, on two sides, and two kings on the reverse sides. They are venerable relics, and worthy to be seen.

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, September 2.

4 shs Gould & Curry at 1135 per foot.
376 shs Daney at 42½@45½ per share.
50 shs Daney at 43 per share, s 3.
16 shs Yellow Jacket at 1430@1420 per foot.
24 shs Yellow Jacket at 1425@1400 per ft, s 30.
1 sh Yellow Jacket at 1420 per foot, b 3.
4 shs Yellow Jacket at 1410 per foot, s 10.
9 shs Belcher at 875@870 per foot.
3 shs Belcher at 875 per foot, s 5.
80 shs Crown Point at 1175@1115 per foot.
24 shs Crown Point at 1130@1125 pr ft, s 3.
4 shs Crown Point at 1120 per foot, b 3.
108 shs Ophir at 280 per foot.
6 shs Hale & Norcross at 480 per foot.
10 shs Potosi at 440 per foot.
12 shs Uncle Sam at 193@202 per share.
1 sh Savage at 1360 per foot.
125 shs Sierra Nevada at 20@18½ per share.
10 shs Sierra Nevada at 18 per share, s 30.
10 shs Sierra Nevada at 18 per share, s 15.
10 shs Sierra Nevada at 19 per share, b 5.
10 shs Sierra Nevada at 19 per share, b 10.
2 shs Exchequer at 40@33 per share.
10 shs Buckeye at 5½ per share.
2 shs Empire M & M Co at 390 per share.
75 shs Imperial at 253@253½ per share.
20 shs Imperial at 252½252 per share, s 10.
5 shs Bullion at 160 per share.
3 shs Cal. Steam Nav. Co. at 82½ per cent.
14 shs Spring Valley W Co at 50¾ per cent.
$ 5,500 Legal Tender Notes at 73½ per cent.
$10,700 U. S. 7-30 Bonds at 74¼ per cent.
Amount of sales.....$166,300 00

Monday, September 4.

204 shs Ophir at 280 per foot.
12 shs Ophir at 280 per foot, s 3.
6 shs Potosi at 435 per foot.
6 shs Potosi at 430 per foot, s 30.
188 shs Daney at 45 per foot.
160 shs Daney at 40 per foot, s 30.
60 shs Daney at 46 per foot.
2 shs Savage at 1280 per foot, s 10.
2 shs Savage at 1285 per foot, b 10.
1 sh Savage at 1210 per foot.
3 sh Savage at 1260 per foot, s 30.
3 shs Belcher at 875 per foot.
15 shs Uncle Sam at 190 per foot.
3 shs Uncle Sam at 188 per foot.
4 shs Crown Point at 1120 per foot.
8 shs Yellow Jacket at 1415 per foot.
3 shs Yellow Jacket at 1430 per foot.
1 sh Yellow Jacket at 1430 per foot, s 3.
1 sh Yellow Jacket at 1435 per foot, b 3.
5 shs Yellow Jacket at 1435 per foot.
8 shs Hale & Norcross at 480 per foot.
5 shs Overman at 185 per foot.
1 shs Overman at 184 per foot.
12 shs Chollar at 460 per foot, s 30.
4 shs Gould & Curry at 1200 per foot, s 30.
4 shs Gould & Curry at 1230 per foot.
25 shs Sierra Nevada at 19 per share.
10 shs Sierra Nevada at 19¼ per share, s 10.
30 shs Sierra Nevada at 19½ per share.
70 shs Uncle Sam at 18 per foot, s 30.
5 shs Imperial at 253¼ per share.
20 shs Imperial at 25 per share.
30 shs Blue Ledge at 4¼ per foot.
5 shs N. American, Ex Sam, at 24 per sh.
10 shs Kentuck at 75 per share.
12 shs Burning Moscow at 23 per share.
15 shs Burning Moscow at 24 per share.

AFTERNOON SESSION.

1 sh Yellow Jacket at 1435 per foot.
1 sh Yellow Jacket at 1440 per foot.
1 sh Yellow Jacket at 1450 per foot.
1 sh Yellow Jacket at 1455 per foot.
3 shs Yellow Jacket at 1465 per foot.
1 sh Yellow Jacket at 1475 per foot.
1 sh Yellow Jacket at 1475 per foot, s 5.
308 shs Daney at 50 per foot.
12 shs Daney at 45 per foot.
40 shs Daney at 47½ per foot.
20 shs Daney at 53 per foot.
20 shs Daney at 51¼ per foot.
2 shs Gould & Curry at 1240 per foot.
16 shs Chollar at 475 per foot.
5 shs Uncle Sam at 183 per foot, s 3.
5 shs Sierra Nevada at 19 per share, s
25 shs Sierra Nevada at 20 per share.
5 shs Bullion at 160 per share.
10 shs Caledonia Tunnel at 6 per share.
1 sh Empire Mill & Mining Co. at 383.
40 shs Confidence at 130 per share.
Amount of sales.....$98,238 00

Tuesday, September 5.

2 shs Gould & Curry at 1240 per foot.
4 shs Gould & Curry at 1300 per foot.
4 shs Potosi at 435 per foot.
12 shs Potosi at 430 per foot.
76 shs Potosi at 431 per foot.
8 shs Potosi at 432 per foot.
140 shs Daney at 46 per foot.
100 shs Daney at 47 per foot.
20 shs Daney at 46¾ per foot.
28 shs Daney at 46 per foot.
20 shs Daney at 45½ per foot.
2 shs Savage at 1280 per foot, s 5.
4 shs Crown Point at 1135 per foot, s 3.
4 shs Crown Point at 1140 per foot.
12 shs Crown Point at 1130 per foot.
1 sh Yellow Jacket at 1500 per foot, b 30.
3 shs Yellow Jacket at 1490 per foot.
3 shs Yellow Jacket at 1490 per foot, b 30.
1 sh Yellow Jacket at 1460 per foot, s 30.
8 shs Chollar at 475 per foot.
4 shs Overman at 180 per foot.
3 sh Imperial at 257 per share.
73 shs Imperial at 258 per share.
10 shs Imperial at 253 per share, b 3.
6 shs Imperial at 257½ per share, s 3.
14 shs Imperial at 258 per share, r w.
50 shs Sierra Nevada at 18 per share, s 30.
15 shs Burning Moscow at 24 per sh.
20 shs Burning Moscow at 25 per share.
10 shs Caledonia Tunnel at 6 per share.
22 shs Bullion at 155 per share.
5 shs Bullion at 153 per share.
5 shs Bullion at 153½ per share.
5 shs Bullion at 152 per share.
10 shs Bullion at 152 per share, s 3
50 shs Wide West at 8¼ per share, s 3.
$ 2,000 Legal Tender Notes at 72¾ per cent.

AFTERNOON SESSION.

1 sh Savage at 1275 per foot.
5 shs Savage at 1220 per foot, r w.
4 shs Crown Point at 1118 per share.
7 shs Yellow Jacket at 1430 per foot, s 30.
1 sh Yellow Jacket at 1430 per foot.
1 sh Yellow Jacket at 1460 per foot, r w.
1 sh Yellow Jacket at 1475 per foot, b 30.
20 shs Chollar at 470 per foot, r w
4 shs Potosi at 430 per foot.
6 shs Potosi at 426 per foot.
6 shs Potosi at 425 per foot.
10 shs Potosi at 425 per foot, b 10.
4 shs Potosi at 422 per foot.
20 shs Daney at 40 per foot.
132 shs Daney at 43 per foot.
20 shs Daney at 43 per foot, r w.
60 shs Daney at 40 per foot, s 30.
4 shs Gould & Curry at 1300 per foot.
5 shs Uncle Sam at 180 , er foot.
6 shs Uncle Sam at 178 per foot.
21 shs Ophir at 340 per foot, s 3.
20 shs Bullion at 150 per share.
15 shs Bullion at 146 per share.
5 shs Bullion at 147 per share.
20 shs Bullion at 146 per share, s 3.
10 shs Sierra Nevada at 19 per share.
70 shs Sierra Nevada at 19 per sh, s 3.
Amount of sales.....$222,680 00

Wednesday, September 6.

24 shs Ophir at 301 per foot.
6 shs Hale & Norcross at 475 per foot.
12 shs Hale & Norcross at 460 per foot.
4 shs Crown Point at 1110 per foot, s 3.
2 shs Potosi at 410 per foot.
15 shs Potosi at 410 per foot, b 10.
40 shs Daney at 38 per share, b 10.
4 shs Chollar at 480 per foot.
8 shs Chollar at 452½ per foot.
4 shs Chollar at 450 per foot, s 3.
20 shs Bino Le lge at 4 per share.
5 shs Bullion at 140 per share, b 10.
5 shs Bullion at 137½ per share, b 10.
5 shs Bullion at 135 per share, b 10.
20 shs Bullion at 130 per share.
10 shs Sierra Nevada at 18½ per share.
10 shs Sierra Nevada at 18 per share.
20 shs Sierra Nevada at 18 per share, s 15.
16 shs Empire M. & M. Co. at 385 per share
1 sh Empire Mill & M. Co. at 400, s 3.
$20,000 Legal Tender Notes at 7 3/4, r w.
$10,000 Legal Tender Notes at 77/8 p ct, s 5.
Amount of sales.....$56,000 00

Thursday, September 7.

4 shs Gould & Curry at 1310 per foot.
2 shs Potosi at 410 per foot.
10 shs Potosi at 405 per foot, s 3.
10 shs Potosi at 405 per foot.
20 shs Potosi at 400 per foot.
6 shs Potosi at 400 per foot, b 3.
8 shs Chollar at 445 per foot.
20 shs Chollar at 435½ per foot.
5 shs Daney at 30 per share.
60 shs Daney at 25 per share.
32 shs Daney at 27 per foot
60 shs Daney at 29 per share.
32 shs Daney at 26 per foot.
40 shs Daney at 24 per foot, s 3.
20 shs Crown Point at 1110 per foot.
2 shs Yellow Jacket at 1440 per foot.
1 sh Yellow Jacket at 1440 per foot, r w.
3 shs Uncle Sam at 170 per share.
5 shs Uncle Sam at 170 per foot, b 10.
5 shs Uncle Sam at 165 per foot.
5 shs Uncle Sam at 165 per foot, b 3.
1 sh Uncle Sam at 166 per foot.
26 shs Hale & Norcross at 561 per foot.
12 shs Ophir at 330 per foot.
3 shs Belcher at 895 per foot.
10 shs Golden Rule at 9 per share.
10 shs Golden Rule at 8 per share.
10 shs Imperial at 258 per share.
10 shs Imperial at 260 per share.
20 shs Imperial at 250 per share, b 3.
95 shs Imperial at 260 per share.
10 shs Imperial at 260 per share, s 3
5 shs Sierra Nevada ot at 19 per share.
10 shs Sierra Nevada at 18 per share.
10 shs Sierra Nevada at 18½ per share, b 3.
25 shs Sierra Nevada at 18¼ per shares.
12 shs Bullion at 137½ per share.
9 shs Confidence at 125 per share.
20 shs Burning Moscow at 25 per share, r w
6 shs Empire M. & M. Co. at 380 per share.

AFTERNOON SESSION.

36 shs Ophir at 330 per foot
3 shs Belcher at 900 per foot.
3 shs Belcher at 910 per foot.
21 shs Belcher at 915 per foot.
6 shs Belcher at 920 per foot.
6 shs Belcher at 915 per foot, s 5.
3 shs Belcher at 920 per foot, b 3.
6 shs Belcher at 915 per foot, s 10.
20 shs Potosi at 405 per foot.
10 shs Potosi at 405 per foot, s 3.
8 shs Potosi at 407½ per foot, r w.
40 shs Chollar at 437½ per foot.
5 shs Uncle Sam at 162½ per foot.
5 shs Uncle Sam at 167½ per foot, s 5.
1 sh Yellow Jacket at 1450 per foot.
1 sh Yellow Jacket at 1465 per foot, b 10.
8 shs Crown Point at 1110 per foot.
15 shs Bullion at 135 per share.
12 shs Confidence at 123 per share.
71 shs Confidence at 122½ per share.
10 shs Confidence at 122½ per share, s 3.
5 shs Imperial at 260 per share.
10 shs Imperial at 261 per share.
30 shs Sierra Nevada at 19 per share.
40 shs Sierra Nevada at 18½ per share.
10 shs Sierra Nevada at 19 per share, s 10.
Amount of sales.....$119,132 00

Friday, September 8.

2 shs Savage at 1240 per foot.
2 shs Savage at 1200 per foot, s 3.
1 sh Savage at 1220 per foot.
56 shs Ophir at 335@337 per foot.
120 shs Ophir at 340 per foot.
8 shs Crown Point at 1110 per foot.
35 shs Imperial at 262@265 per share.
12 shs Belcher at 995@925 per foot.
15 shs Belcher at 9.22½ per foot.
36 shs Confidence at 122@121 per share.
16 shs Hale & Norcross at 525@541 per foot.
2 shs Hale & Norcross at 537½ per foot.
13 shs Uncle Sam at 175@170 per foot.
60 shs Chollar at 442@440 per foot.
40 shs Daney at 31@32 per foot.
16 shs Potosi at 410@412½ per foot.
5 shs Nevada, J G., at 16 per share.
10 shs Bullion at 135@132 per share
70 shs Sierra Nevada at 20@18¾ per share.
30 shs Spring Valley W W at 60¾ per cent.

AFTERNOON SESSION.

20 shs Chollar at 450 per foot.
4 shs Hale & Norcross at 540 per foot.
50 shs Burning Moscow at 20 per share.
3 shs Belcher at 915 per foot.
125 shs Daney at 40@30 per share.
72 shs Ophir at 340@36 per foot.
24 shs Crown Point at 1120@1122 per foot.
7 shs Confidence at 121 per share.
3 shs Savage at 1235@1240 per foot.
50 shs Imperial at 260@300 per sh, s 30.
15 shs Imperial at 266 per share
5 shs Imperial at 247½ per share.
170 shs Sierra Nevada at 19¾@21 per share.
18 shs Bullion, G H, at 135@134 per share.
14 shs Potosi at 415 per foot.
1 sh Yellow Jacket at 1450 per foot.
Amount of sales.....$102,315 00

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, September 9th, 1865.

The condition of the money market is substantially unchanged. Continued ease nnd nbundnnce prevails, and first-class collateral can be readily placed at 1½ ℘ cent. per month in bank. Other descriptions of security are taken nt 1½ ℘ cent. per month. In the open market, transactions nre made within a range of 1@2 ℘ cent.

Receipts nf treasure from the interinr have been light since Saturday last, and amounted in the aggregate to less than $900,000. Bullion is meeting with a fair degree of inquiry from dealers and others, and gold bars are selling at 840@850. Silver bars have nlso improved slightly, and may be quoted at ¼ ℘ cent. premium to 1 ℘ cent. discount.

Legal Tender Notes nre in rather less request, nnd some $50,000 were dealt in at the Board, declining from 73⅛c to 72⅞c, nnd closing at 72¼c bid, 72⅜c nsked. Our latest telegraphic advices from the East quote gold at 145 on the 7th inst.

Dullness nnd depression have been characteristic features o the mining share market during the week, but at the close, some little animation is observable. Transactions at the Board have been inconsiderable, nnd mainly confined to a few leading stocks, most of which are now lower than on Saturday last.

Gould & Curry is in better favor, rising from $1,135 to $1,300 then selling at $1,310, nnd closing at $1,275 bid, $1,300 asked. The product of this mine in ore exceeded 5,000 tons lnst month, a portion of which was reserved for future reduction. It has been the intention of the company, for some time past, to accumulate a lnrge reserve of ore and materinl, so that there might be no interruption to active operations at the mill during the winter months. An early resumption of dividends is anticipated.

Alpha lns met with no sale this week, but is stronger, at $1,920 bid, $2,000 asked. A recent clean-up at the company's new mill realized some $16,000, being the product of nbout 350 tons of ore. An average of 80 tons of ore are now daily hoisted to the surface from the different levels.

Yellow Jacket opened at $1,430, receded to $1,420, rose to $1,475, fell to $1,450, rallied to $1,460, then sold at $1,440, and was dealt in yesterday nt $1,445@1,450. During the week ending August 27th, 1,479 tons of ore were extracted from the mine, and 963 tons were worked, yielding $28,717. The total receipts of bullion for the month of August amounted to $167,508.62, and the entire indebtedness of the company on the 1st inst. was $321,554.48, as against $340,000 on the 5th of the previous month. Some extraordinary disbursements were made last month for improvements in the south shaft and to the Morgan mill, amounting in all to $16,795; otherwise the debt would have been more considerably reduced. The Princess shaft and machinery are now in working order, and a station has been opened in the 430-feet level. In the air-shaft drift from this point a pay lode 28 feet wide has been disclosed.

Savnge is in rather less request, and 23 feet were sold, declining from $1,300 to $1,220, and closing at $1,240 bid. Receipts of bullion from this mine for the past month nmounted to some $80,000, and the present indebtedness of the company exceeds $145,000. The west body of ore, as met with in the first, second nnd third levels, continues to improve, nnd the lower level is also thnught to promise well.

Crown Point was dealt in to the extent of 50 feet, receding from $1,175 to $1,115, rallying to $1,140, dropping to $1,110, and selling yesterday nt $1,100@1,121. Both of the company's mills nre now running up to their full capacity upon ore taken from the upper levels. Nothing reported this week from the lower drift.

Belcher has been nctive, and wns steadily maintained, within a range of $870@922½, closing at $915 bid.

Hale & Norcross has revived a little, and some 35 feet changed hands, advancing from $480 to $540, and selling yesterday at $540@537. It is said that more flattering indications have been found this week. An assessment of $50 per foot was levied on the 5th inst., making in all thus far $725 per foot.

Ophir has obtained more favor, steadily rising from $280 to $340, and selling at the close at $360. Some 50 feet were sold at these rates. Shipment of bullion was received this week amounting to $19,000, and a promising body of ore is reported to have been found in the old works.

Chollar fell from $475 to $437½, and sold yesterday at $442½ @450, some 50 feet in all changing hands. Potosi has been more active, and 100 feet were dealt in, declining from $440 to $400, and closing at $412½@415. Receipts of bullion from these two claims during the month of August amounted to some $60,000, being the product of about 1,500 tons of ore.

Empire Mill and Mining Company fell from $390 to $380, at which rates 25 shares were sold. There will be no dividend for the month of August.

Imperial continues one of the strongest stocks on the list, and some 600 shares were dealt in, advancing from $252 to $262, and selling yesterday at $265@267½. The receipts of bullion from the Gold Hill and Rock Point mills, during the past month, exceeded $136,000. After a recent disbursement of some $30,000 for winter supplies, and the payment of a dividend to-day of $10 per share, a large surplus will remain in the treasury of the company. A reserve of some 1,500 tons of ore bas also been accumulated, and it is proposed to increase this amount very considerably. The reduction capacity of the two mills will be increased to 2,700 tons this month. The lower drift, now 150 feet distant from the shaft, is still in good ore.

Uncle Sam is in less request, and declining from $190 to $160 per shnre, rallying to $166, and selling yesterday at $168@170. Confidence fell from $130 to $121, and closes at $121 bid. Bullion met with a serious decline, dropping from $160 to $130, rising to $137, and selling yesterday at $132@135.

Daney rose from $42 to $53, steadily declined to $25, and changed hnnds at the close at $39@40 Sierra Nevada hns been largely dealt in, within a range of $18@20, closing at $21. Wide West was sold at $8@8¼; Kentuck at $75, aud North American at $24.

The total recorded sales of stocks and Legal Tender Notes since Saturday last amounted to $664,635.

Fluctuations in Leading Mining Shares for the past Six Months.

Name of Company.	Feb. 10th.	Feb. 20th.	March 1st.	March 10th.	March 20th.	April 1st.	April 10th.	April 20th.	May 1st.	May 10th.	May 20th	June 1st.	June 10th.	June 20th.	July 1st.	July 10th.	July 20th.	July 30th.
Gould & Curry.....per ft.	1,565	1,825	1,750	1,960	1,900	2,010	2,015	1,175	1,800	1,480	1,670	1,525	1,625	1,615	1,750	1,750	1,730	1,500
Ophir.....	385	....	385	440	450	530	590	560	500	490	550	485	480	500	495	455	530	425
Savage.....	1,565	1,620	1,515	1,905	1,750	2,000	2,025	2,020	1,600	1,375	1,300	1,190	1,150	1,425	1,375	1,400	1,310	1,175
Potosi.....	730	....	750	885	900	1,130	915	870	750	425	337	202	312	457	372	350	395	480
Chollar.....	810	910	715	685	700	705	942	830	680	425	375	215	317	473	345	370	410	500
Hale & Norcross.....	260	235	240	350	350	472	525	500	450	400	455	440	400	650	555	570	520	525
Sheba.....	....	....	....	20	21	28	....	30	28	....	20	18	15	18	....	....	....	....
Daney.....	....	....	10	45	25	16	15	....	20	....	22	15	15	15	14	....	14	....
Wide West.....	5	....	....	14	25	13	17	16	10	9	7	5	4	3	7	8	6	....
Burning Moscow.....	66	64	53	49	54	37	38	50	47	41	45	40	45	57	34	29	25	29
Pride of the West.....	....	....	....	8	5	3	....	....	....	....	....	....	....	....	....	....	....	....
Bullion.....	60	115	110	115	110	110	135	151	150	155	152	135	130	165	140	175	180	175
Real del Monte.....	....	....	....	12	16	12	14	....	....	....	....	12	10	....	....	....	....	....
El Dorado.....	....	....	....	10	5	5	....	....	....	....	....	....	....	....	....	....	....	....
Overman.....	130	215	200	350	300	395	325	300	245	240	180	115	100	120	180	342	305	220
Sierra Nevada.....	13	17	18	22	23	18	26	22	16	17	14	13	12	14	@15	10	14	25
Yellow Jacket.....	1,480	1,475	1,780	2,350	2,650	2,570	2,500	2,400	2,070	1,615	1,550	1,400	1,320	1,150	1,090	1,015	1,105	1,220
White & Murphy.....	....	....	....	50	25	15	....	....	....	....	....	....	....	....	....	....	....	....
Sides.....	....	....	....	100	50	25	....	....	....	....	....	....	....	....	75	60	....	....
Uncle Sam.....	350	275	325	370	325	330	330	285	250	245	200	115	100	155	185	343	307	190
Baltic.....	....	....	....	20	22	20	15	....	....	....	....	....	....	....	20	15	....	....
North American.....	16	29	31	44	41	32	34	....	30	....	25	30	28	25	28	35	42	35
Baltimore American.....	....	....	....	20	20	21	....	....	....	....	....	....	....	....	....	....	....	....
Melones.....	....	....	....	10	5	3	....	....	....	....	....	....	....	....	....	....	....	....
Antelope.....	....	....	....	20	15	20	23	....	....	....	....	....	....	....	....	....	....	....
Napoleon.....	....	....	....	60	55	50	....	....	....	....	....	....	....	....	....	....	....	....
Sacramento.....	....	....	....	10	5	8	....	....	....	....	....	....	....	....	....	....	....	....
Utah.....	....	....	....	8	8	5	....	....	....	....	....	....	....	....	....	....	....	....
Lady Bryan.....	....	....	9	13	8	11	....	....	....	....	....	....	....	....	6	5	....	....
Imperial.....	135	....	150	145	192	201	213	205	235	282	215	159	175	217	283	245	218	227
Crown Point.....	720	900	1,070	1,400	1,450	1,400	1,360	1,170	1,000	1,000	885	725	760	750	765	800	910	905
Belcher.....	1,025	1,180	1,250	1,650	1,600	1,600	1,800	1,020	1,210	1,200	1,105	925	620	695	780	775	850	805
Alpha.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1,480	1,400	1,470	....

Authorized Scale of Commissions Adopted by the S. F. Stock and Exchange Board.

Miscellaneous.

Funded Debt, on par	½ per cent
Insurance Stocks, on par	½ per cent
Wharf Stocks, on par	½ per cent
Gas Stocks, on par	½ per cent
Railroad Stocks, on par	½ per cent
Steamboat Co. Stocks, on par	½ per cent
Telegraph Co. Stocks, on par	½ per cent
Water Co. Stocks, on par	½ per cent
Legal Tender Notes and Bonds, on par	½ per cent
Bills of Exchange, on net amount	½ per cent
Mint Certificates, on net amount	½ per cent
Specie, on net amount	½ per cent

Commissions on Mining Shares.

Sale at 1 dollar up to 10 dollars per foot	$0 25 per foot
Sale at 10 dollars up to 25 dollars	50 per foot
Sale at 25 dollars up to 50 dollars	1 00 per foot
Sale at 50 dollars up to 100 dollars	1 50 per foot
Sale at 100 dollars up to 200 dollars	2 00 per foot
All over $200 per foot, or share, one per cent. on the amount of purchase or sale.	

FRANKLIN LAWTON, Secretary. J. B. E. CAVALLIER, President.

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San Francisco:

Saturday Morning, Sept. 9, 1865.

[From the DAILY FAIR PRESS.]

THE IRON INTEREST OF SAN FRANCISCO.

NUMBER ONE—MINERS' FOUNDRY.

The future importance of the iron interest of San Francisco can scarcely be estimated at the present time. When our railroads shall have penetrated into the mountains, and reached, with their lateral arms, all the important mineral resources of our vast interior and placed our facilities of locomotion and transportation on an equality with other parts of the world, we shall then be able to set at utter nought all attempts at competition in the heavy line of this business, and draw into San Francisco, as a common center, the entire iron business of the Pacific Coast, on both its eastern and western shores, as well as the thousands of islands with which its bosom is everywhere dotted. This, it will be borne in mind, is entirely additional to the almost incalculable amount of iron manufacture which must be required to work the illimitable extent of our mines of the precious and useful metals. These reflections were forced upon us yesterday, while passing through the extensive works of the Miners' Foundry, on First Street, and reviewing the large amount of heavy material which that establishment is just finishing up, on orders from the Sandwich Islands. Even that little cluster of islets is already becoming an important customer to the machine shops and foundries of this city. There are already not less than *thirty* large mills, with their heavy rollers and costly steam engines, at work on those islands, which number is rapidly increasing. The machinery for these mills has heretofore generally been obtained from Scotland, a small portion, only, from the Eastern States. Latterly, however, the sugar-planters of these islands have learned that they can obtain their machinery from this city about as cheap as from the East or from Europe, while a great saving is made in the matter of time—an important consideration in this fast age.

A most gratifying evidence of the new course which this business is now taking may be seen at the Miners' Foundry. This firm is now completing one heavy set of sugar rolls, twenty-six inches in diameter, and forty-two feet long, with heavy intermediate gearing, for the plantation of T. Metcalf, Esq., of Honolulu. Each roll, with shaft and pinion, weighs three and a half tons. They are designed for a first-class sugar mill, and are made extra heavy. This is the second mill furnished for the Islands from this city.

They are also finishing up an 8-foot vacuum pan, for the Honolulu Sugar Refinery. The casting of these pans is a very nice piece of work, and is done in loam or dry sand, in order to secure a greater degree of perfection. This pan, which has been made to take the place of the one now in use there, weighs about 10,000 pounds. The establishment for which it has been ordered is the only Sugar Refinery at the Islands, and which has been established to supply the home market with refined sugars.

The Miners' Foundry is also making a large tubular boiler for the Islands, sixty-six inches in diameter by fifteen feet long; also, two steam sugar clarifiers.

A large amount of quartz machinery is also in course of completion at this foundry, among which we noticed a mill for a Reese River Company, the engine of which has a 16-inch cylinder, with a 36-inch stroke; a 10-stamp mill for dry crushing, arranged so that the pulverized ore is taken from the mortars by fans and conveyed thus to bins, thence by cars to the top of the roasting furnaces, where it is readily emptied upon the hearth, and thence to a set of the Wheeler & Randall tractory pans, built up with wooden sides—the amalgamation being affected in 6-foot separators especially arranged to work in connection with those pans.—They have also under way two other 10-stamp mills, for Reese River, and one for Idaho, with a peculiar arrangement for roasting and grinding, now for the first time about to be introduced on this coast, and which we shall soon describe in full. This foundry has recently turned out an order of half a dozen of Hepburn & Peterson's pans, on an order from Washoe. The fine pan of this class on exhibition at the Pavilion was from this foundry.

NUMBER TWO—UNION IRON WORKS.

In continuing our articles on the Iron and Foundry Interest of San Francisco, we cannot omit giving a prominent position to the new enterprise of locomotive building, just initiated by H. J. Booth & Co., of the Union Iron Works, of this city; a business which in a very few years must become one of mammoth proportions. The people of California are deeply indebted to this firm for the enterprise exhibited by them for taking the initiatory in the same, which has been carried out at the cost of a large outlay over and above any present remuneration, and at the risk of a possible failure to successfully compete with the experienced skill and cheap labor of the East. The result of the enterprise has been the most complete mechanical triumph ever witnessed on the Pacific coast; as was abundantly proven to the numerous party of mechanics, engineers, and invited guests who went out to the Twin-Tree Station on the trial trip on Wednesday of last week. The performance, on that occasion, of the "California," the first regular locomotive ever constructed on the Pacific coast, was a triumph in which, not only the enterprising firm which built it, but all Californians as well, may take a just pride. The work of the engine was faultless, and its speed was demonstrated to be equal to that of any locomotive of its class ever constructed. It was tested on this trip to as high a rate as was safe for the accompanying train with its gay load, which was dashed along the rail, in one portion of the trip, at the rate of *sixty-seven miles an hour*, as timed by two different watches. What the engine would do, if driven to her utmost capacity, is left to conjecture alone. In its construction, no effort has been spared to bring together, and to combine into a perfect whole, all the improvements which have been introduced into locomotive building in the East; and it is the universal opinion of the best railroad engineers and mechanics who have examined this machine, that, for its class, its equal has not been built. Booth & Co. have three other locomotives of the same pattern, now drawing near to completion, each of which will possess all the excellencies combined in the California.

Some idea may be formed of the magnitude which the business of locomotive building must soon assume in this city, from the statement of Ex-Governor Stanford, made in his speech at the collation on the occasion of the trial trip alluded to, that at least *two hundred locomotives* would be required on the California railroads within the next five years. It is but fair to suppose that after the present triumph of our California mechanics in this direction, no further orders for either locomotives or railroad cars will be sent abroad; and we shall be much disappointed in our calculations if Booth & Co. do not, from this time forth, make locomotives a speciality, and thus fairly engraft upon California this new and important industry. Mr. Stanford, in alluding to the rapid progress of the railroad interest in this State, further remarked that—

So rapid had been the progress of the Pacific Central Road that the same would be completed to Colfax by September 1st, at which point an elevation of 2,600 feet above the level of the sea would be attained. By January 1st, 1866, Dutch Flat, an elevation of 3,700 feet would be reached, the greatest grade being 105 feet to the mile. Thence to the summit of the Sierras is a distance of thirty-four miles, on which portion of the route work would be pushed rapidly. At this station the track would be not less than six thousand nine hundred feet above the level of the Pacific Ocean. One tunnel, fifteen hundred feet in length, would have to be cut through the Summit Ridge. From the top of the Sierras to the valley below, the road could be constructed with comparative ease, and at little cost. Four thousand laborers were now at work, and by the first of October, five thousand would be in the employment of the Company. Other statistics were given which we have not space to advert to more fully.

In closing this article, as we have already extracted liberally from the speech of one gentleman on the occasion of the late excursion, we do not know that we can do any better than to give the remarks of Mr. I. M. Scott, on the same occasion. Mr. Scott is a member of the firm of H. J. Booth & Co., and the gentleman under whose more especial and immediate supervision this mechanical triumph has been constructed, and in whose brains it first assumed its full and complete form and proportions as we see it to day, and each day crossing along the iron rail between this city and San Jose. Mr. Scott said:

Ladies and Gentlemen:—Before referring to the honors which Mr. Doyle has seen fit to place upon my shoulders, allow me to continue the line of his last argument in favor of the San Jose Railroad. He tells us that the great Pacific Railroad is of no consequence unless it brings trade and travel to this road; that no railroad is of any consequence to us which does not double the business of the San Jose Railroad. We ask, of what use is the San Jose Railroad, unless it brings us locomotives to build? Of what use is the Central Pacific Railroad, or any other road, if we do not build the engines, and the State of California, and especially the City of San Francisco, does not derive some benefit from it? I ask these questions because I feel a deep interest in the future welfare of this coast, and have a strong faith in the final accomplishment of the grandest of all enterprises, the binding of all the States by this strong iron band, reaching from the Pacific to the Atlantic. We feel that our valleys and hills will never yield their treasures until the channels of trade run deep and free over the land! Many think railroads are monopolies, for the benefit of the few. They are a blessing to the many, and are closely connected with our social prosperity. The building of these engines will cause about ninety thousand dollars to change hands. Money collected by the railroad companies from the people of the State, paid by them to us for engines, and by us paid on for materials and labor, finds its way back to the people from whence it came, while the State and the people gain a railroad by the circulation, and the prosperity of the country is increased.

And now, ladies and gentlemen, though I have seen every rivet and bolt, every piece of material, and every hour of labor on that engine, there are others who deserve a share of the praise. To Mr. W. R. Eckart, our chief draughtsman, all praise is due for the skill and patience with which he worked out the tedious details of the engine, and, I am proud to say, not a single error occurred in his work; to the foremen of the different shops, a just share of credit is due for the faithful manner they performed their work; to the *Bishop* of the San Jose Railroad, who brought a ripe judgment gathered from twenty years of railroad experience, and contributed all the practical knowledge he possessed to the successful accomplishment of this enterprise—to him is due the ease of her motions and much of the success of the engine. Many thanks to the representative men of the Sacramento Valley Railroad and the Pacific Central Railroad, who contributed their mite to the general fund, and insured its early and complete success.

The interest shown by all classes in this engine, the road to San Jose, the grading of the Western Pacific, the fifty five miles of finished road on the Central Pacific, are facts that prove we are in earnest, and the great work of a great people will soon be completed.

NUMBER THREE—PACIFIC FOUNDRY.

The growing necessities of our commercial steam marine, which is fast spreading itself up and down the vast extent of our sea coast, is calling into active exercise the mechanical skill and inventive genius of our people to the end that we may be placed on an independent footing in this as well as in other branches of mechanical necessities. Our machine shops at first attempted only light work of this kind. As our ship-builders proved the feasibility and economy of constructing a heavy class of steamers, old machinery and engines built at the East, and which had survived their more perishable hulls, was at first taken out, refitted and placed within new hulls. Now, however, our builders are adopting the wiser policy of putting new machinery into their new boats, and having their engines and boilers made here, of a size and character more properly calculated for their work. Our machinists and foundrymen have also proved their ability to turn out such work of any desired capacity, and at prices which, considering the time saved, and other advantages gained, have fully proven the policy of having such work done here instead of sending to the Atlantic States for it.

Among those of our foundries which are making this class of work a speciality, we may mention Messrs. Goddard & Co., of the Pacific Iron Works. This establishment is now about finishing up a 10-foot propeller wheel—the largest ever built on this coast. This propeller is for the new steamer now building at North Point, for Messrs. Griffith & Johnson, and not yet named; but which is intended for a tug boat, that will be nearly double the power of any other in the harbor. They are also putting engines and boilers into the stern-wheel steamer, now nearly ready to launch from the foot of Third street; the machinery for which is already on board, but not yet completed.—This machinery is to be a duplicate of that of the Mount Eaton, which was also built by them, and which has been running about a year up the Encinal, to a place called Mount Eaton.

This foundry also built the machinery of the steamer Del Norte, and more recently overhauled that of the J. T. Wright, now in the North Pacific Ocean in the service of the Russian Telegraph Company. The repairs for the Ben. Holliday steamer line is also done by this firm. They also do all the Government repairs which are not sent to Mare Island. The recent overhauling of the Shubrick was done by them. They do such of the repairing for the Pacific Mail Steamship Co. as is not sent to the company's shops at Benicia. We trust the time will soon come when this important steamship company will find it to its advantage to build as well as repair its boats here. There is no question but that our mechanics will soon excel as much in building first-class ocean steamships as they now do in those of a lesser capacity. The opening trade with China and Japan, and the increasing coast business, will, ere long, create a demand for a large addition to our present fleet of first-class ocean steamers; and we trust the coming man may soon be found with ability and energy sufficient to satisfy our capitalists that there is no necessity for building these steamers 20,000 miles distant from the place where they are needed for service. Whenever that man appears who will undertake the building of those steamers here, he will find the mechanics all ready, and educated fully up to the high mark for supplying them with the required motive power.

The engines of the propeller Reliance, placed upon the Alviso route some three months since, were built by Goddard & Co., and have done most satisfactory service since. The machinery of the new boat placed in the Petaluma trade, some two or three weeks since, was from their shops. In addition to their marine work, they are also just completing a large 80-horse power engine for the Baltimore American mining company, of Virginia City, to drive a set of heavy hoisting drums, and a deep 10-inch pump. They have just completed an order for ten of Varney's Pans, large numbers of which they are constantly turning out for various parts of the mines, in addition to a great quantity of miscellaneous work, for almost every conceivable purpose, and for all parts of the Pacific coast, and the interior.

While passing through their works, we noticed a new 8 foot lathe, twenty-five feet in length, which they have recently received, together with a pair 36-inches in diameter and twenty feet long—the three forming a very important addition to their stock of machine tools.

NUMBER FOUR—VULCAN IRON WORKS.

In continuing our articles on the iron interests of San Francisco, we come now to the Vulcan Iron Works, which are located at Nos. 137 and 139 First street. The proprietors of this establishment are Richard Ivers, Samuel Aitken, Charles R. Steiger and N. D. Aruot—the last member of the firm having bought the interest of the late Paul Tornet. There are at present 145 men employed in the various departments, manufacturing new, and repairing old machinery. Owing to the length of time this company has been in business, and the particular care and attention paid to this latter branch of their business, the Vulcan Iron Works have a large force constantly on repair

work. They have at present, in hand and just completed, the following work for the Yellow Jacket Mining Company: A large engine, 22-inch cylinder and 4 feet stroke, to be employed in driving their mill, when the dry season stops the water. With the exception of the Gould & Curry beam engine (also built by the V. I. W. Co.,) this will be the largest engine in Nevada. This company are also re-modeling the hoisting works of the Gould & Curry, from the present plan of friction wheels to that of direct drums and flat wire rope. This plan of hoisting was introduced by this firm, and has proved to be the best and most satisfactory in use.

The Vulcan Iron Works have been very successful in their machinery for working mines. From personal experience they were convinced of the superiority of the common system, employed in the extensive mining operations of Europe; and instead of being led away by the new and crude ideas of inexperienced miners, they have adopted and adhered to that kind of machinery which has been thoroughly proven, and which is best suited to the mine for which it is intended. The fact that machinery built by them for heavy pumping purposes in Grass Valley, as long ago as 1853 and '54, is still at work there, and performing as well as any built within the last two or three years, affords abundant proof of the superiority of the class of machinery which this firm has adopted for such purposes.

They have at present two large pumps and pumping apparatus for the Chollar and Potosi mine, the balance-bob for which is made of wrought iron, and is thirty feet long and fifteen feet high. This is a beautiful piece of wrought iron bracing, and can be seen standing in the middle of the erection shop—a model of strength, beauty and lightness. The overhead pulleys are eight feet in diameter.

The principal amalgamating machinery manufactured by this firm is the Hepburn & Peterson, and Baux & Gaiod pans, and the Heath grinder—all of which are represented in the fair. The Baux & Gaiod pan is, at present, amalgamating a lot of rock as a test against a mill in Tuolumne county. There is also a large amount of machinery for a sugar mill, consisting of pans, air pumps, etc., giving further evidence of this rising branch of industry supplied by Mexico and the Sandwich Islands.

This firm has also in course of construction a locomotive for the Napa Valley Railroad. This is the eighth locomotive engine built at this foundry, as follows: three for the Dalles railroad in Oregon, two for the Alameda railroad, two for the Oakland road, and the one now building for the Napa road. Although these locomotives are of a very light class—not being calculated for heavy work, like those turned out by a neighboring firm—they are, nevertheless, entitled to the designation of locomotives, and this firm considers itself fully entitled to the position of a pioneer in the important enterprise of locomotive building. The first of these machines was built under the direction of Mr. Spratt, on Pine street, and was designed by C. W. Stevens, of Oakland. These locomotives are something entirely different from any employed at the East, and have been designed especially for the light work of a class of our California railroads, upon which it would be impossible to drive the heavy machines used on the San Jose or Central Pacific roads. They are the result of the application of California genius to the especial wants of California.

This firm is doing quite an important business in the construction of the Jonval Turbines, some of which, built by them, and ran on the Carson river, have reached as high as 100-horse power, and are spoken of in the highest terms by those using them, as being cheaper in first cost, giving a better power, with less trouble in running them, than any hitherto employed by such parties.

Scattered around the works are parts of various jobs, amongst which are a large number of water pipes for Alcatraz Island, from 10 to 14 inches diameter; a number of car wheels; any quantity of shoes and dies of excellent hard white iron, and in fact something of almost everything pertaining to the iron trade of the Pacific coast.

NUMBER FIVE—FULTON FOUNDRY.

Among those who were early in the field of iron manufacture in this city, we may mention the Messrs. Hinckly & Co., of the Fulton Foundry. This establishment enjoys a high reputation, and has been a large source of profit to its founders and proprietors. Our city is adorned with large numbers of ornamental architectural castings from this foundry which, we believe, was the first to introduce that branch of business into this State. Their business embraces every department of mill machinery, steam engines, saw-mill castings, etc. If they have any specialty it is saw-mill machinery—as a large proportion of the saw-mills which have been put up on the Pacific coast have gone out from this foundry. They have just received an order for a saw-mill and engine to be put up at the town of Oakland, Oregon, near Jacksonville.

This firm has recently sent a pair of steamboat engines to Portland, for a new boat which is being built there; also an engine and boiler for a barrel stave factory at St. Johns, near Portland—the only establishment of this kind, we believe, on the northern coast. They recently filled an order for a large quartz mill, located near Rocky Bar, Alturas County, Idaho, in which are employed six of Moore's grinding pans; two more of these grinders were ordered yesterday, for the same place.

Moore's grinders are manufactured exclusively at this foundry; and though but recently introduced to the mining public, are coming rapidly into favor, on their merits alone. Those who have used them speak highly of their efficiency, while their simplicity admits of their first cost being placed at a very low figure. The quartz may be fed into these pans direct from any ordinary dry crusher; it not being necessary to crush finer than to the size of beans. By the use of these pans the employment of stamps and the consequent unavoidable loss of gold from the rush of water required by them is avoided. The pulp passes through the machine with a regular flow; the amalgamation being effected without triturating the quicksilver in immediate connection with the pulp.

Five mills have recently been sent to Colorado—two of them with engines—from this foundry, and each provided with a set of Moore's grinders. Two others were shipped a few days since to Powder River, Oregon, to be employed in the quartz mill of Col. J. S. Buckle's, President of the Oregon Steam Navigation Company. The general work turned out at this establishment comprises every variety of iron work known on this coast, and orders are being constantly received from all parts of the Pacific coast, the interior and the neighboring State of Mexico. They are prepared to turn out castings as high as six tons in weight, and steam engines from six to 175 horse power.

GANG SAWED LUMBER.—Carpenters and builders generally speak positively in favor of the gang sawed lumber which is now coming into this market from the mills using Hendy's new patent gang saws. The principal cause of this is the fact that the lumber is sawed true on every side, and perfectly even and uniform from end to end, no matter what may be its length. A gang was on exhibition last year, consisting of six saws. The lumber is held firmly in the stick until cut out each way in a single passage by the saws. This prevents the springing of the timber, and hence irregular sawing. A set of these saws will produce 30,000 feet of seantling, or 25,000 feet of inch boards in 12 hours. Samples of this lumber may be seen at the Pavilion.

STRONG'S AMALGAMATOR.—This is a new pan, invented by Mr. W. L. Stroug, and is now for the first time placed on exhibition. It has been in use for some time at the metallurgical works of Kimball & Murphy, the proprietors of which establishment speak in terms of high commendation of its merits as an effectual and rapid reducer. It works by little power, and produces a thorough agitation of the pulp. Mr. Strong is a studious and persevering worker, and well deserves the success his invention seems destined to receive.

A FRIGHT.—A couple of city belles, who were ignorant of the primitive styles adopted by the inmates of the New England Kitchen, were promenading arm in arm around the fountain of the pavilion on Tuesday evening, when one of Aunt Susan's recruits brushed past.

"Law, what a fright!" exclaimed one of the pretty ones, shrinking to avoid contact with the strange looking creature.

"She is crazy," suggested the other. "She is from a mad-house! Where's brother?" and the horrified darlings hurried off to find a protector, certain that without one they were likely at any moment to be swallowed by an anthropophagus.

(From the Daily Fair Press of Saturday, Sept. 2.)

CALIFORNIA HOMESTEAD ASSOCIATION.—We would call the attention of our readers to an advertisement in our columns of the California Homestead Association, which was formed two months since and has purchased blocks No. 540 and 541 of the western addition. The property lies within three blocks of the Turk street railroad, is nearly on the grade, and excellent water can be obtained at a short depth. The Post street railroad, which will soon be constructed, will run from Montgomery street through Post to Fillmore street, thence to Pine street and through Pine to Cemetery Avenue, passing directly by this property, which is bounded by Pine, Broderick, Sacramento and Baker streets, and lies on each side of California street, which is eighty-five feet wide. This railroad, when built, will greatly enhance the value of the ground. Several fine houses are now being erected near this property, and improvements are going on rapidly in the immediate neighborhood of the same. The property has been purchased at a great bargain, and the lots, which are nearly all 27½ feet front by 137½ feet deep, will cost the members only $250, which they are to pay in twenty-five monthly installments of $10 each. The expenses of the Association will be very small, as its affairs are being managed in the most economical manner. The title is derived directly from Milo Hoadley, and is perfectly clear—there being no adverse claims. We understand that all the stock is taken but twelve or fifteen shares, which may be secured by calling at the office of J. S. Luty, Secretary, 305 Montgomery street, corner of Pine, rooms 2 and 6, where maps of the property, abstract of title, etc., can be seen, and explicit information obtained.

Homestead associations in this city have almost invariably proved very profitable investments, and, judging from the manner in which the affairs of the California Homestead Association are conducted, the location of their property, and the reasonable figure at which it has been purchased, we have reason to believe that its members will not only acquire desirable homestead lots in an easy manner, but that their property will rapidly increase in value, and they will thus have made a very profitable as well as a perfectly safe investment.

When the stockholders of the association have made six monthly payments, the property will be divided among them, in the usual manner, and each member will receive a contract for a deed to the lot or lots to which he will be entitled; thus, by paying the small sum of $60, a fine homestead lot is secured which may then be improved, and the payments of $10 per month to be made thereafter will not amount to much more than a lease of the lot for the same time would cost. The first regular annual meeting of the stockholders for the election of officers, to serve for one year, will be held on the 15th of October next.

VENERABLE RELICS.—Mrs. Kellog has submitted for our inspection a number of heirlooms preserved in her father's (the Barney) family, of a venerable character, and highly prized by those who possess them. They consist of a teacup and saucer, imported by Daniel Dorsey, of the Ellicott Mills, Maryland, in 1779; four spoons, manufactured from a quart silver tankard, of cotemporaneous date; a lot of patchwork, executed by three colored servants in the family of Daniel Dorsey, 1800; two pieces of chintz, imported from England by Daniel Dorsey in 1784, which cost $1.50 and $2 per yard, Continental money; a portrait of Eleanor Dorsey, wife of Daniel Dorsey, a lady who gave birth to sixteen children, two of seven of whom, now living, are upwards of eighty years old; and a table-cloth and one of sixteen napkins, imported by Daniel Dorsey, from England, to be expressly used on the occasion of his wedding, in 1779. The table-cloth was used at the weddings of a majority of his children. Mrs. Barney, a surviving daughter, has had it in possession nearly forty years. It has also been used at the weddings of most of her children. It passed safely through the great fire at Detroit, in 1847; a conflagration in Chicago, in 1850; through the great fire at Sacramento, in 1852, and the flood immediately following, and the fires and floods which afterwards, on several occasions, visited that city. It has been in use more or less for eighty-six years, and is still in an excellent state of preservation.

GENERAL STATIONERY.—J. Isaacs & Co., northwest corner of Merchant and Sansome streets, is a convenient and favorable place to procure the finest articles of general stationery, blank books, cutlery, and many other articles of a fancy and useful character.

THE INDUSTRIAL DRAWING ACADEMY.—In one of the art galleries, the visitor to the Pavilion of the Fair must not fail to observe four drawings, from the Industrial Drawing Academy, 408 Pine street, numbered respectively, 364 (a screw), 365 (a French father guarding his son on the retreat from Moscow), 366 (the new Jewish synagogue, of San Francisco), and No. — (two horses). To our mind they exhibit the very perfection of that order of genius. The numbskull ought never to attempt drawing, but the lad of quick parts and bright perceptive faculties should no more omit to make it a branch of study than he would reading or writing. It is not only an accomplishment, it is a utility. We had almost qualified the phrase by the adjective "indispensable." It is certainly the handmaid of mathematics. There is no mode by which the comprehension can so easily be reached as through the diagram. The man who, with his pencil, can elucidate an idea, embodies that idea, and gives it form and dimension. This is the especial object and office of a talent like that of drawing. The man or boy who possesses the talent can plan a house, devise a model, draw a landscape, shape a thought, preserve a recollection, sketch the features of a friend; in fact, enjoy the felicity of creating and propelling a world for himself, in which all the figures and characters of a lively fancy are shaped into form, and look only the breath of life to make them "good fellows, companionable and merry." The Industrial Drawing Academy is now in recess. It will open again Sept. 4th. The parent who has a son, or the guardian who has a ward old enough to learn drawing, ought by all means to have him taught the art among his earliest accomplishments; and if he has a taste for it, through the whole of his after life he will find himself vastly profited by the knowledge. Mr. A. Coulon, the author of some of the sketches in the gallery, is associated with Prof. Bello. His works speak for his ability, and require no further commendation.

CALIFORNIA KEROSENE.—California kerosene, distilled at the laboratory of E. Benoist, 643 Third street, may be seen burning, every evening, at the mineral department of the MINING AND SCIENTIFIC PRESS, at the Pavilion. This burning fluid was distilled from crude petroleum obtained from the Lexington well, Santa Cruz county.

PROTECTION AGAINST FIRE.—The Executive Committee have made ample arrangements for protection against fire in the Pavilion. A hose carriage is kept constantly at the foot of the stairs of the north gallery, and Captain De Groot placed in charge of the same by the Chief Engineer of the Fire Department.

PATENT PAPER REEL FOR TELEGRAPH REGISTER.—This new and valuable invention consists of two reels, one to supply the register with paper and the other to receive it. The receiver is worked by a small cord running from a spindle attached to the reel, through a pulley fastened to the ceiling above with a half pound weight. The spindle is made to work on either reel, so the reels can be shifted without trouble. The inventor, Mr. L. W. Worth, of Sonoma, Cal., claims that they are superior to other reels, as they are simple, cheap, and can be put up by a boy in a few minutes ready for use; they can be placed on a table or shelf without fastening so as to be moved wherever wanted, at any time. They are light and easy to adjust. The paper can be kept clean and straight and run through the register from sixteen to eighteen times with ease. He has also a reel put together in two parts to put a roll of register paper on without winding. It is spoken of in high terms of satisfaction by telegraph operators in this city, and is now being used at the State Line Telegraph Office. Application has been made for letters patent through our agency.

IN our notice of the pump challenges in yesterday's issue, we omitted to state that the terms of Mr. Hansbrow's challenge were to pump by the power of one or two men. He thinks that omission in our item calculated to give the reader a wrong impression, and therefore we make this statement.

[From the Daily Fair Press of Wednesday, Sept. 6.]

THE INFLAMABILITY OF COAL OILS.

Among the entries to-day, is an instrument, exhibited by Dewey & Co., of the MINING AND SCIENTIFIC PRESS, for testing the inflamability of coal oils. This instrument was recently patented by Mr. John Tagliabue, of New York, and obtained a premium offered by the American Institute of that city. The importance of some reliable means of demonstrating *by a perfectly certain and reliable test*, the presence of explosive material in petroleum oil, is a desideratum that must at once commend it to the notice of all persons interested in the trade and production of this now universal article of merchandise, and every-day household use. It is believed that this is the only instrument yet devised which has attained the end desired. The defects of the various devices hitherto employed, are such as admit of the indication of the explosive point at fifteen or twenty degrees below what the oil will stand, or the exact reverse—thus leaving a margin of from thirty to forty degrees, which is a degree of uncertainty not at all admissible in practice. It is claimed that this instrument will determine definitely, and to the very degree, the precise point which any oil submitted to its test will bear before explosion can take place. A full description of the construction and mode of using the machine, seems to render this fact apparent to any person who will take the pains to thoroughly examine into its practical operation.

INGENIOUS RAT TRAP.—Of all the rodent family, excepting, perhaps, the beaver, the rat exhibits the most cunning. He may be caught in a steel trap once, perhaps twice, but the third time rarely, if ever. He will pass over it time and again without nibbling at its bait, or even treading on any portion of it which will fly the spring. But the rat is not infallible among quadrupeds. He may be captured by the use of deep laid strategy, such as we think has been attained in an invention now on exhibition at the Fair Pavilion, by Mr. A. Badlam, of Sacramento. It is a wire cage, about thirty inches in length, with three compartments. In the two first are platforms, worked by a combination of wires reaching across the top of the cage, and operating after the manner of a walking beam. When the trap is set, the further or inner end of the first platform is lifted up by the arm of the walking beam. The rat enters for the bait, which is suspended from the top of the cage. As he advances towards it he treads on the raised end of the platform, which goes down with his weight, closing the door behind him with a slight clash, and opening a second door at his nose, through which he escapes to avoid the noise in his rear. He treads on the raised end of a second platform, which goes down with his weight precisely as in the first instance, closing the second door against his retreat, but raising the first door, which is the mode of again setting the trap. The noise of the closing of the second door causes the rat to spring through a third door, which is the old fashioned wire gate, hung in an oblique position with its hinges above. This gate is raised by the nose and back of the rat in working its entrance to the third compartment, and falls when the rat has got through, cutting off its retreat hopelessly.

TO BE WELL DRESSED.—The times are considered unusually hard. A great many persons are out of employment, seeking for something to do. This class, of all others, ought to go well dressed. So ought the man of wealth who has no position. Let those deny it who may, it is a fact, nevertheless, that dress produces its effect upon many minds; to prejudice them against a man who is shabbily clad, and cause them to treat with respect and obsequious consideration one who is clothed in broadcloths. J. R. Mead & Co., corner of Washington and Sansome streets, are prepared to furnish elegant outfits, which will entitle the wearer to recognition in the highest circles, where his talents frequently entitle him to go, but where he is refused admission because he is not genteely dressed.

BOOK BINDING.—Bartling & Kimball turn out work in the line of book binding which will compare favorably with the finest workmanship of the East. They took a premium last year at the Fair, and deserve another this year for the ability and skill with which they perform their work. Their place of business is at 505 Clay street, same entrance and No. as the MINING and SCIENTIFIC PRESS office.

[From the DAILY FAIR PRESS, Thursday, Sept. 7.]

THE INEBRIATE.—Of all the vices with which humanity is afflicted, intemperance is perhaps the most common and pernicious. It not only drags honorable men down from lofty and profitable position, but frequently blasts the hopes of families and reduces them to beggary. Notwithstanding the serious consequences entailed by the vice, it should perhaps be regarded with more charity than any or all other human afflictions. It is not always bad men who contract it, nor is it peculiarly the offspring of depraved hearts. On the contrary, the most generous and noble of natures are imperceptibly ensnared in its toils. No man ever patronized the cup with the intention of becoming a drunkard. It would be an insult to press such an accusation. The appetite for strong drink is formed by degrees, and without malice. Whilst denouncing its evil influences, the moralist himself falls a victim to its temptations. For these reasons, it becomes no man, while gazing upon the fallen victim of intemperance, to say, "Avaunt!" or "I am purer than thee," for no man can tell how soon he may himself become an object of equal commisseration.

We indulge these remarks, in view of the fact, that the proceeds of the Fair to-morrow evening are to be given to the "Home of the Inebriate," and to express the hope that it may be largely and generously patronized.

DRYTOWN MARBLE LEAD.—One of the latest but highly important entries at the Mechanics' Fair, is a sample of California marble, from the above named ledge. The quarry is located on Dry Creek, Amador county, about halfway between Drytown and Fiddletown, which is about thirty miles nearer to steam communication than the famous Indian Diggings marble works. The piece on exhibition shows susceptibility to a good polish. Its highly crystalized nature adapts the stone to outside use, and being highly variegated, it cannot but recommend itself to favorable notice for house fronts. A steam mill has been erected at the works, with the modern appliances for manufacturing, and we hope our builders will take into consideration the superior texture and appearance of this material, and give it immediate trial. It ought soon to become popular in our rapidly growing city, which is sadly deficient in such fine material at anything like a reasonable price. We are assured that the proprietors, Messrs. Myers & Richtmyer, are active and reliable gentlemen, well and favorably known in Amador county, and we hope they will meet with that encouragement by our citizens which their important enterprise entitles them to.

TWO MORE NIGHTS.—The Fair lasts but two more nights. Hundreds of citizens who have derived pleasure from visiting the Pavilion will regret this. It has become a place of fashionable resort—as much so as the theater—and certainly affords more instruction to the observing and ambitious mind. The flashing of the fountains, the music of the band, the flashing of bright eyes, the presence of pretty faces, and the study of interesting objects, will all come to an end on Saturday night! *Sic transit gloria mundi!*

THE CABINET.—Before the Fair closes we would direct the attention of every one who visits the pavilion to the splendid collection of minerals, under the superintendence of Capt. Aiken. Years may elapse before another opportunity is offered to behold so extensive and elaborately classified a cabinet. Scientific men are particularly requested to examine these minerals. This fine collection is exhibited under the immediate auspices of the MINING AND SCIENTIFIC PRESS, presented by contributors to the Fifth Industrial Exhibition of the Mechanics' Institute. We take pride in making the statement, in the conviction that, in all its features as a mineral show, it has never been surpassed on this coast, if, indeed, in any country of the world.

THE LICK HOUSE.—This already large and beautiful hotel, is receiving the improvement of an additional building, which will enable it greatly to extend its lodging facilities to patrons. Under the joint proprietorship of Messrs. Alstrom & Johnson, it has acquired a popularity second to no public house in California. As a place for families it has been preferred. At the present time an extensive feature of its patronage is derived from this source. Its apartments are all of a superior kind. Sojourners and boarders are entertained with every kindness and hospitality; and for these reasons the house has become a great favorite with the public—a distinction which it merits from the able manner in which it is kept.

[From the DAILY FAIR PRESS.]

"HISTORY VINDICATES ITSELF."

In the whole range of poetry there is no expression more correct than that the "eternal years" belong to truth. It will vindicate itself wherever the conscience has been educated, and the mind is willing to admit the teachings of morality. Detraction may for a while hold it in abeyance, misrepresentation cover it with a cloud, malice prevent it from circulation, envy conceal it from view—yet, in the end, its hour of culmination is sure to arrive, and the horizon where it shines to be made irradiant with its glory.

The proprietors of the Grover & Baker Sewing Machine contend that the combined efforts of detraction, misrepresentation, malice, and envy, have for years past been directed against their invention, but that it has, like the heaven-born principle which we have used for illustration, survived all opposition, and to-day stands higher in public estimation than at any previous hour in its history.

This machine was amongst the earliest to attain public celebrity. Wherever it was introduced it gave satisfaction, and was abundantly capable, from the wide range of work it performed, to meet all the demands of sewing practised in a christianized country. Its success then became a matter of jealousy, and soon the market was crowded with machines which, with the obtrusive impudence of Banquo's ghost, sought to crowd annointed loyalty from its seat. This the inventor and proprietors could quietly have borne. They could even have rejoiced at the success which attended the honorable business enterprise of cotemporaries. It was not rivalry that was feared, nor the good fortune of their opponents that was regretted. There was room for ten thousand inventions, so long as the public mind was left unbiased in its choice as between them. The Grover & Baker Company complain only that the capabilities of their machine have been underrated and falsified; that it has been denied the fame it has acquired over its competitors by the superiority of its achievements, and that its work has been claimed as the performance of other machines, which, without the ability to compete with it in a fair field, are nevertheless anxious to appropriate or destroy its reputation.

One of the most elegant pieces of embroidery ever executed by a needle in the hands of a skillful sewer, was worked on the Grover & Baker machine last fall, in the shape of an opera cloak, by Mrs. P. E. Rodgers (now Mrs. Harding), and presented to the lady of Gov. Low. It produced astonishment wherever exhibited, on account of the elegant superiority of its workmanship. The same lady has since manufactured a second cloak, which was designed for presentation to Mrs. Lincoln, and was about to be sent forward to that lady when news of the assassination of the President was received. It was then retained, and can now be seen in the Pavilion of the Fair, on exhibition with other splendid specimens of embroidery, which speak their own praise, the praise of the lady who worked them, and of the machine on which they were manufactured, better than we could describe them.

It has been asserted, and wickedly maintained, by the enemies of the Grover & Baker machine, that it was incapable of performing such work, and that the opera cloak now exhibited as a triumph of its abilities, was *imported!* This, it must be confessed, is a high compliment to the machine, and to Mrs. Harding, who performed the work, although it was by no means so intended. It is an admission of *superiority* for the machine, and that is all its proprietors have ever claimed for it.

However, what has once been done can be done again. Those who are willing to make the denial in person—that this opera cloak was made *entire* upon the Grover & Baker machine, have only to present sufficient inducement for another trial of its capabilities, when Mrs. Harding will pledge herself to produce a specimen of embroidery and appliqued work which shall *even surpass that now on exhibition!*

It has been further said, that the proprietors complain, that *only* an experienced and skillful operator on the machine, like Mrs Harding, can turn out such work. There are hundreds of ladies residing in California who can give a flat contradiction to this assertion. *Any* lady accustomed to the use of a machine can produce work equally as fine. Specimens of embroidery are shown which were manufactured by mere tyros in the use of the machine, almost, if not quite, equal in merit to that performed on this cloak.

The proprietors of the Grover & Baker sewing machine claim that while it is adapted to all kinds of work ordinarily done in a family, it is also susceptible of executing the *very finest work capable of being performed by the needle.*

While exhibiting this machine at the London International Exhibition of 1862, Mrs. Harding obtained a medal for the superior plain and ornamental work which she executed on it. She embroidered a dressing gown and smoking cap, which were presented to the Prince of Wales. Illustrations of the cap and gown appeared in the London *News*, with an article, of which the following is an extract:

The gown, as seen by our engraving, is of blue silk of Spitalfields manufacture, specially made for that purpose; the richest in color and quality that could possibly be procured. The facings, cuffs, collar, and pockets, are of white satin, and the whole of the inside lining, back, and sleeves, even the pockets, are of the finest white satin. The inside of the lining is covered with stitching of the most elaborate character that can be conceived. The design is a combination of the rose, thistle, and shamrock, beautifully intertwined and combined with a considerable variety of other flowers. The whole of this work is done in white, producing a remarkable chaste effect. The facings, on the contrary, are stitched in blue, and this beautifully softens the otherwise striking contrast between the blue silk and the white satin. Round the whole of the work a graceful box-wreath forms as it were an endless band—this like the other parts of the work being the finest of stiching. The edges of the robe and of its fringes are all richly corded with a blue and white braided cord so manufactured as to give the white the appearance of pearls. The cap is made of the same material and lined in a similar manner; on the inside of the band a vine wreath twines itself round, whilst in the center of the crown the Prince of Wales' plume, with the motto "*Ich Dien*," appears exquisitely stitched and in a more graceful form than met the eye anywhere during the recent illuminations. The outside of the band and the outside of the crown are beautifully braided in white, the braid being made and stitched on it at the same moment and by the same machine which executed all the fine sewing and plain and ornamental quilting which cover these beautiful garments. It goes as a tribute of American loyalty from the manufacturers, Messrs. Newton Wilson & Co., the eminent sewing-machinists, of 144 High Holborn. We understand it is chiefly the work of a Californian lady, Mrs. Rogers, who is their principal artiste; and it is a splendid specimen of sewing-machine work.

The proprietors of this machine invite a rigid investigation and comparison of its merits. They are willing to base their claims to superiority upon the certificates of those working men and women who have tried it and are competent to judge of its capabilities. They rely upon what it *has* done for what it *can* do. No finer sewing or embroidery was ever executed than this machine has performed in the hands of those who understand how to operate it, and the process of its operation is so simple, that a child of ten years of age can understand it after less than a week's instruction.

LONDON AND SAN FRANCISCO BANK.—This institution, with Hon. Milton S. Latham as its business manager, assisted by Camilo Martin, is now regularly under way and doing a prosperous business. It deals in bills of exchange and letters of credit upon London, Paris, Hamburg, Hongkong, New York City, and all the principal cities of the world.

KELLUM & WINTER.—Among the oldest and best of our dental firms, is that of the gentlemen whose names form the caption of this article. The terms upon which they operate have always been inviting, and the work they perform such as to secure them a steady continuance of patronage.

THE MACHINERY DEPARTMENT AT THE FAIR. When the whole exhibition has proved a real triumph through the successful management of the various committees, it is not our purpose or disposition to speak of one portion of the display to the disparagement of another, yet being cognizant of some of the many annoyances and difficulties naturally encountered in the charge of the machinery department, one cannot refrain from heartily congratulating its principal superintendent, Mr. W. W. Hanscom, upon his good success. Everything throughout seems thoroughly arranged, and in good running order, and we pass throughout the whole division without hearing a murmur of complaint against the management by the numerous exhibitors, whose interests are supposed to be more or less conflicting with one another. The immense growl given recently by one of our daily papers, which no doubt the perpetrators expected would shake things considerably about the Pavilion, apparently came us far from getting up the desired disaffection, among the exhibitors, as it was distant from truth in its foundation. Notwithstanding the machinery department is more extensive this year than last, we are assured there is no lack of steam or propelling power. We have spoken more plainly about this department from the fact that it has not hitherto received the full meed of praise which is justly due the display and its management.

AT a general meeting of the Germania Mt. Diablo Coal Mining Company, held on the 14th day of August, 1865, the following officers were chosen. Trustees: J. G. Anderson, J. C. Junge, C. G. Landis, Elkan Wasserman; President, H. Plunger; Treasuror, E. Engelberg; Secretary, E. J. Pfeiffer. Office 210 Post street, near Dupont.

San Francisco Metal Market.

PRICES FOR INVOICES.

Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

SAN FRANCISCO, Aug. 18, 1865.

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1½c ₱ lb; Sheet, polished, 3c ₱ lb, common, 1½@1¾c ₱ lb, Plate 1½c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2½c ₱ lb.

Scotch and English Pig ₱ ton	38 @40
American Pig ₱ ton	37 @39
Rolled Bar, bad assortment, ₱ lb	3 @—
Refined Bar, good assortment, ₱ lb	3½@—
Boiler No. 1 to 4	4 @ 4½
Plate No. 5 to 9	4½@—
Sheet No. 10 to 13	4 @—
Sheet No. 14 to 20	5 @—
Sheet No. 24 to 27	5½@—

COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb

Sheathing ₱ lb	30 @32
Sheathing, Old	25 @35
Sheathing, Yell	30 @32
Sheathing, Old Yell	12 @12
Bolts	— @—
Composition Nails	30 @32

TIN PLATES.—Duty: 2½c ₱ lb.

Plates, Charcoal, IX ₱ box	10 @12
Plate I, I C Charcoal	9 @10½
Roofing Plates	9 @ 10
Banca Tin Slabs, ₱ lb	41 @42½

STEEL.—English Cast Steel, ₱ lb 12½@16

QUICK SILVER.—Per lb — @65

For export	55 @—

ZINC.—Sheets ₱ lb 9½@10

LEAD.—Pig ₱ lb 6½@—

Sheet	10 @—
Pipe	10 @—
Bar	9½@10

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	60@ 65
do pickled ₱ lb	40@ 50
do Oregon	40@ 42
do New York, ₱ lb	35@ 38
Cheese, ₱ lb	20@ 25
Honey, ₱ lb	40@ 60
Eggs, ₱ doz	55@ 60
Lard, ₱ lb	25@
Hams and Bacon, ₱ lb	20@ 25
Cranberries, ₱ gal	75@
Potatoes, sweet ₱ lb	6@ 8
do Irish, ₱ lb	2@ 4
Tomatoes, ₱ lb	3@ —
Onions, ₱ lb	6@ 6
Apples, No. 1, ₱ lb	2@ 6
Pears, table ₱ lb	2@ —
Plums, dried, ₱ lb	10@ 15
Peaches, dried, ₱ lb	10@ 15
Grapes, Foreign, ₱ lb	20@ 40
Oranges, ₱ 100	2 50@ 3 00
Lemons, ₱ 100	5 00@ 6 00
Chickens, apiece	75@ 1 12

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	5 50 @ 6 00
Do Superfine	5 00 @ 5 50
Corn Meal, ₱ 100 lb	@ 4 00
Wheat, ₱ 100 lb	1 60 @ 1 75
Oats, choice, ₱ 100 lb	1 40 @ 1 50
Barley, ₱ 100 lb	90 @ 97½
Beans, ₱ lb	2 @ 3
Potatoes	85 @ 1 00
Hay, ₱ ton	10 00 @15 50
Live Oak Wood, ₱ cord	8 00 @10 00
Beef, on foot, ₱ lb	8 @ 10
Beef, extra, dressed, ₱ lb	16@ 22½
Sheep, on foot	1 00@ 2 00
Hogs, on foot, ₱ lb	8 @ 12
Hogs, dressed, ₱ lb	14 @ 16

Groceries, Etc.

Sugar, crushed, ₱ lb	16 @ 16½
Do China	10 @ 12½
Coffee, Costa Rica, ₱ lb	— @ 21
Do Rio	*22 @ 23
Tea, Japan, ₱ lb	85 @ 95
Do Green	70 @ 90
Hawaiian Rice, ₱ lb	@ 10
China do.	8 @ 10
Coal Oil, ₱ gal	1 50 @ 1 60
Candles, ₱ lb	20 @ 22
Ranch Butter, ₱ lb	50 @ 60
Isthmus do	35 @ 37
Cheese, California, ₱ lb	20 @ 26
Eggs, ₱ doz	65 @ —
Lard, ₱ lb	— @ 25
Ham and Bacon, ₱ lb	— @ 25
Shoulders	— @ 18

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment, Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and all other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELIN'T LIST.	DAY OF SALE.
Apollo, Lander co., 50c		Oct 7	Oct 23*
Alpha, Gold Hill $20		Aug 26	Sept 27
Alpha, Gold Hill		Special Meeting	Sept 28
Arizona Copper, Arizona, 10c		Sept 16	Sept 30
Arbitrios, Chihuahua, Mex., $1		Sept 30	Oct 12
Black Ledge, Lander co., $2		Oct 7	Oct 21*
Blue Ledge, Lander co., 50c		Oct 7	Oct 23*
Baltimore, Alpine co		Annual Meeting	Sept 16*
Bacon M. & M. Co., $10		Payable	May 10
Belcher, Baldwin & Abernethy		Dividend of $17	June 3
Baltimore American, Storey co., Nev., $5		Sept 5	Sept 19
Boston, El Dorado co., 50c		Sept 18	Sept 30
Bolinas, Marin co., 50c		Sept 16	Oct 2*
Bunker Hill, Eldorado co., $1		Oct 7	Oct 19
Burning Moscow, $15		Oct 6	Oct 18
Confidence,		Dividend, $100 per foot	May 1
Chollar, Storey co., Nev., $8½		Sept 18	Oct 2
Cosala, Sinaloa, Mex., $4.50		Aug 28	Sept 9
Cole, Storey co., Nev., $1		Sept 4	Sept 19
Coahortha, Sinaloa, Mex., $5		Sept 1	Sept 12
Consolacion, Sinaloa, Mex., $2		Aug 30	Sept 11
Central, Storey co., Nevada, $5		Sept 6	Sept 26
Cordillera, Chihuahua, Mex., $2		Sept 10	Sept 23
Coal Creek, Sonoma co., 50c		Sept 4	Sept 16
Crown Point, Storey co., Nev., $25		Oct 4	Oct 20
Confidence		Annual Meeting	Sept 26
Capitola, Santa Clara co., 15c		Sept 22	Oct 6
Cosala, Sinaloa, Mex		Annual Meeting	Sept 18
Cordillera		Special Meeting	Sept 13
Dunkirk, Lander co		Special Meeting	Sept 23*
Dios Padre, Sonora, Mex., $2		Oct 4	Oct 17
Edward Everett, Lander co., 25c		Oct 14	Oct 28*
Emilia, Guerrera, Mex., 25c		Sept 16	Sept 30*
El Dorado, Alpine co		Annual Meeting	Sept 16*
Eagle Quartz, Amador co., 75c		Sept 2	Sept 22*
El Tesora, La Paz, 50c		Sept 19	Sept 30
Empire M. & M. Co		Dividend Payable	Aug 10
Exchequer, Storey co., Nev. $2		Oct 2	Oct 17
El Taste, Sonora, Mex., $2		Oct 4	Oct 17
Franco Americana, $1		Sept 12	Sept 25
Florida, Reese River, Nev. $10		Oct 3	Oct 18
Great Western Tunnel		Annual Meeting	Oct 5*
Globe, Alpine co., $2		Sept 23	Oct 12*
Geo. Washington		Annual Meeting	Sept 13*
Great Western, Aurora, 10c		Aug 26	Sept 9*
Golden Rule, Dividend		Payable	Aug 20
Gould & Curry,		Dividend, $40	Aug 5
Gov. Nye, Devil's Gate, Nevada $1		Sept 12	Sept 25
Guadalupe, Chihuahua, Mex. $25		Oct 3	Oct 18
Garcia Petroleum, 15c		Sept 4	Sept 16
Germania, Mt. Diablo		Sale Sept 6	
Great Republic, Contra Costa co		Annual Meeting	Sept 19
Hanscom, Copper, Del Norte co, 15c		Oct 7	Oct 23*
Hanscom Copper, Del Norte co., 15c		Aug 26	Sept 12*
Honest Miner, Lander co., 50c		Aug 26	Sept 12*
Halleck, Alpine co., 50c		Aug 26	Sept 9*
Hale & Norcross, Storey co., Nev., $25		Oct 9	Oct 23
Illinois, Alpine co		Annual Meeting	Sept 19*
Imperatrice Eugenie, Calaveras co., 25c		Sept 2	Sept 19*
Imperial		Dividend Payable	Aug 10
Isabella		Annual Meeting	Oct 2
Joe Lane, Lander co., 50c		Oct 7	Oct 23*
Jewett, Storey co., $1		Oct 4	Oct 21*
Jura, American Flag dist., Nevada, $1		Aug 28	Sept 9
Jefferson, Brown's Valley		Dividend $10 per share	Aug 23
Klamblu, Sierra co., $25		Sept 16	Oct 2*
Keystone, Calaveras co		Sale	Sept 12
Kentucky, Calaveras co., $1		Oct 10	Oct 30
La Favorita, Sonora, Mex. 50c		Sept 30	Oct 14*
Leland, Arizona Territory, 25c		Sept 16	Oct 2*
Lady of the Lake, Arizona Territory 25c		Sept 16	Oct 2*
Lady Franklin, Alpine co., 50c		Sept 16	Oct 6*
Lord Byron, Devil's Gate, 50c		Aug 26	Sept 11*
La Blanca, Sonora, Mex., 3.50		Aug 28	Sept 9
Lady Bell, Del Norte co., 10c		Sept 4	Sept 15
Lady Bryan, Storey co., Nev. $2 50		Sept 20	Oct 2
Lizzie		Special Meeting	Sept 30
Mammoth, Alpine co		Annual Meeting	Sept 9*
Mosquito Quartz, Calaveras co., $5		Aug 25	Sept 15*
Maggie, Lander co., Nev., $3		Sept 23	Oct 5
Morning Star, Alpine co., Nev. $1		Sept 21	Sept 30
Morning Star, Alpine co., $1		Sept 22	Oct 10
Napa, Alpine co		Annual Meeting	Sept 12*
Nuestra Sen. de Guada'oupe, Durango, 50c		Sept 11	Sept 22
Nonpareil, Tuolumne co., $2		Aug 31	Sept 16
North American, Virginia, Nev., $10		Levied	Aug 14
Old Colony, Reese River, $5		Aug 26	Sept 11*
Ontario, Lander co., $1		Sept 11	Sept 22
Overman		Meeting	Sept 14
Ophir, Storey co., Nev., $8.33½		Oct 3	Oct 18
Porter, Virginia, Nev. $5		Sept 30	Oct 14*
Potosi, Storey co., Nev., $25		Sept 18	Oct 2
Patrocina & Dolores, Chihuahua, Mex., 1.50		Sept 1	Sept 15
Petaluma M. & M. Co., Dividend of 5 ₱ cent			Aug 9
Peninsula, San Antonio, L. Cal., $10		Sept 5	Sept 16
Pennsylvania, Alpine co., $2		Sept 2	Sept 28
Paragon, Humboldt co., 30c		Oct 4	Oct 16
Revenue, Lander co., Nev., $1		Aug 26	Sept 13
Ranchería, San Antonio, L. C. 40c		Sept 12	Sept 26
Refugio, Chihuahua, Mex., $2 50		Sept 9	Sept 23
Refugio		Meeting	Sept 14
Southern Light		Sept 9	Caution*
Segregated Belcher, Storey co., $2		Oct 7	Oct 23*
Santa Cruz Petroleum, Santa Cruz, 30c		Sept 16	Sept 30*
Santa Cruz Petroleum		Annual Meeting	Sept 26*
Sierra Nevada, Alpine co		Annual Meeting	Sept 12*
Silver Prize, Alpine co		Annual Meeting	Sept 20*
Silver Creek, Alpine co		Annual Meeting	Sept 19*
St. Clair, Smoky Valley, 50c		Sept 2	Sept 16*
Simpson M & M Co., Alpine co., 60c		Aug 19	Sept 9*
Scott M & M Co., Humboldt co., Nev., 50c		Sept 9	Sept 25*
Savage,		Dividend, of $75	May 5
Santiago		Dividend	May 17
Stephen A. Douglas, Lander co., Nev. $5		Sept 18	Oct 3
San Francisco, Del Norte co., 70cts		Sept 1	Sept 13
Siempre Viva, Sinaloa, Mex., $2.50		Aug 29	Sept 9
Sierra, Douglas co., Nev., $2		Sept 8	Sept 29
Seaton, Amador co		Annual Meeting	Sept 13
Sierra Nevada, Storey co., Nev., $7.50		Oct 7	Oct 21
Table Mountain, Calaveras co., 50c		Sept 23	Oct 12*
Tip Top, Alpine co		Annual Meeting	Sept 18*
Tuolumne Mountain, 50c		Sept 13	Sept 23
Triunfo		Special Meeting	Oct 6
Trinidad & San Jose, Copala, Mex., $10		Oct 6	Oct 20
Union No. 2, Calaveras co., $1		Sept 9	Sept 23*
Vulcan, Lander co., 50c		Sept 16	Sept 30*
Wisconsin, Alpine co		Annual Meeting	Sept 18*
Wisconsin, Alpine co. 1		Aug 26	Sept 9*
Whitlach Yankee Blade, Lander co., $10		Aug 26	Sept 12*
Yankee Blade, Lander co., 50c		Oct 7	Oct 27*
Yellow Jacket		Dividend of $100	May

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Branch Mint	Aug 22	1 50
Bishop	Aug 18	1 00
Burning Moscow	Sept 5	15 00
Chollar	Aug 18	34 00
California Consol M & M Co	Aug 23	1 00
Crown Point	Sept 2	25 00
Exchequer	Aug 30	2 00
Globe	Aug 17	1 00
Hamilton	August 12	40
Lady Bryan	Aug 22	2 50
Mount Blanc	Aug 23	1 50
North Comstock	August 2	25
Napoleon Consolidated	August 15	25
North American	August 12	10 00
Orleans Flat	Aug 25	1 00
Ophir	Sept 5	100 00
Peak	August 10	1 00
Piute Copper Co	August 11	1 00
Potosi	Aug 18	50 00
Schiller	Aug 23	1 00

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale
Alpha	Sept 27	Gold Hill
American Flat Nevada	Sept 28	Virginia
Allen	Sept 16	Virginia
Branch Mint	Sept 9	Virginia
Central Hawkeye	Sept 13	Gold Hill
Crœsus	Sept 22	Gold Hill
Cole	Sept 19	Virginia
Chrystal Peak Consol	Sept 30	Virginia
Eastern Crown Point	Sept 9	Virginia
Globe	Sept 15	Virginia
Hamilton	Sept 12	Virginia
Independent	Sept 6	Virginia
Keystone	Sept 15	Virginia
Keystone	Sept 26	Gold Hill
Lincoln	Sept 6	Virginia
Napoleon Consolidated	Sept 25	Virginia
Nevada	Sept 25	Virginia
Opal	Sept 23	Virginia
Peck	Sept 9	Gold Hill
Sides	Sept 16	Virginia
Union	Sept 28	Virginia

Rates of Advertising

IN THE

MINING AND SCIENTIFIC PRESS.

Mining Advertisements.

Notices of Meetings, per square, one week	$1 00
Notices of Meetings, per square, four weeks	2 50
Assessment Notices, of ordinary length, four weeks	5 00
Assessment Notices, of more than usual length, for each additional square	2 50
Delinquent Sales, per square, two weeks	2 00
Delinquent Sales, per square, three weeks	2 50
Postponements, per square, one week	1 00
Slips of Advertisements, printed for meetings or assessments, per hundred	1 00
Advertising blanks and circulars	Free

Miscellaneous Advertisements.

One week, per square	$1 00
One month, per square	2 50
One quarter (3 months), per square	7 50

Advertisements of great length, or of special character, inserted by contract on the most favorable terms.

☞ *Ten lines of solid advertising type constitutes a square.* ☜

Terms of Subscription.

THE MINING AND SCIENTIFIC PRESS is published every Saturday morning (containing sixteen pages—size of *Harper's Weekly*) at the following rates:

One copy, one year, by mail, in advance	$5 00
One copy, six months, by mail, in advance	3 00
One copy, one year, by express	6 50
One copy, six months, by express	3 50
Five copies, one year, by mail, in advance	20 00
By city carriers, per month	50
Single copies	12½
Monthly Series (or parts), containing 4 Nos	50
Monthly Series, containing 5 Nos	62½

THE CIRCULATION of the PRESS, already extensive, is rapidly increasing, and subtantial men who can profit by widely disseminating information of their business amongst the most intelligent, influential and industrial classes of the Pacific States and Territories will find no more effectual or economical medium for advertising

DEWEY & CO., Proprietors.

Patent Agency and Job Printing Office, 505 Clay street, San Francisco. July 1 1865

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our forme location), where we may now be found, with more commodious apartments and an extensive Job PRINTING OFFICE.

San Francisco, April 10th, 1865.

New Volume

—OF THE—

Mining and Scientific Press

Issued every Saturday. Each number contains 16 pages and 64 columns (size of Harper's Weekly).

PUBLISHED BY

DEWEY & CO.,

Patent Agents, Publishers and Job Printers, 505 Clay Street, San Francisco.

THE ELEVENTH VOLUME

Of the MINING AND SCIENTIFIC PRESS commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this journal may be anticipated by its numerous and rapidly increasing readers.

We shall continue to devote a large space in our columns to the various and best methods of treating ores and saving gold and other precious metals in every form, furnishing valuable hints to millmen, prospectors, oil-workers and miners generally, not to be found in any other publication.

New machinery, latest inventions and discoveries, and all matters pertaining to the mechanical, manufacturing and industrial resources of the Pacific States, will receive careful attention.

Stock market reports will be published as received from the official records. Our carefully compiled "Mining Shareholders' Directory" will prove a faithful monitor to parties holding stock, and a desirable record for reference to brokers.

Friends pleased with our efforts in the publication of the Press can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and News dealers, acting as our agents, will receive liberal commissions.

☞ BOUND VOLUMES FOR SALE. ☜

SUBSCRIPTION IN ADVANCE.

One Year, (two volumes)	$5.00
Six Months, (one volume)	3.00

FOR ADVERTISING

Our terms are very reasonable. MINING COMPANIES are especially favored by our rates, and careful attention is given to the legal publication of MINING NOTICES.

OFFICE—No. 505 Clay street, corner of Sansome.

DEWEY & CO., Publishers.

G. W. M. SMITH ..... W. B. EWER ....A. T. DEWEY.

North America

LIFE INSURANCE CO.,

No. 240 Montgomery Street,

SAN FRANCISCO.

The Most Liberal Company

IN THE UNITED STATES.

All Policies Non-forfeitable and Indisputable.

No Extra Charge for Residing in the Territories, or for Traveling to and from the Eastern States.

J. A. EATON & CO.,

Managers of the the Pacific Branch.

A CHANCE FOR CAPITALISTS.

The Hinckley Quartz Lead,

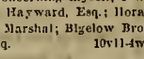
Located in Jackson, Amador county, California, containing four hundred feet, is FOR SALE. It has thus far proved to be the richest claim in the county. For further information, enquire on the premises.

Jackson, Sept. 4th, 1865. T. HINCKLEY.

For any further information concerning myself, I will refer (without permission) to A. Hayward, Esq.; Horace Kellum, Esq.; C. W. Rand, U. S. Marshal; Bigelow Bros., Insurance Agents; M. Abrams, Esq. 10v11-4w

Pacific Mail Steamship Co.

The following Steamships will be dispatched on the following named days.



September 18—COLORADO.....Captain J. T. Watkins.

October 3—CONSTITUTION .....Capt. Farnsworth.

From Folsom street Wharf,

At 11 o'clock A. M., punctually to the hour,

For Panama.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company

A Baggage Master will be sent through each trip.

Cabin passengers will be berthed for Atlantic steamer.

OLIVER ELDRIDGE, Agent.

Corner Sacramento and Leidesdorff sts.

A SPICY COMPLIMENT.—A correspondent of the Sacramento *Union* gives the following notice of one of our fair contributors who has combined utility with beauty in her work:

Decidedly the prettiest thing on exhibition in the Fair is an afghan, worked by Miss Addie Meacham, a young lady only twelve years old, as I learn from the columns of the *Call*. The question arises in one's mind as we look at this wonder of embroidery: If the young lady does this at twelve, what will she do at eighteen, and what miracle of needlework may we not expect her to accomplish at twenty-four? For twelve is not the noon of life, however it may indicate meridian on the dial plates which look down on us from the church towers. Crowds gather around this afghan, visiting and revisiting it, finding it impossible to pass it, and still returning to its vicinity as though each rose of its composition had a special magnet spell. There is only one thing which surprises me about the work—not the name of JOHN PAUL, but some other man's, is embroidered in the corner. This is of course a mistake which will be remedied when the exhibition is over—the intention being to mislead people as to whom the gift is really intended for. I wish I knew the young lady, so that when she threatened to give me a piece of her mind for speaking thus freely about her in print, I could reply that I should prefer a piece of her worsted. I do not know, though, after all, but that I'd prefer to wait and have a piece embroidered for me when the artist had reached the age of eighteen, for of course it would be just fifty per cent. better than the present one, done at twelve. But long before that time, it is likely that the whole work of her needle will be selfishly claimed by some individual who will have taken her for better or worsted, and will refuse to permit the exquisite talent for embroidery, of which we here have a specimen, to be exercised for the benefit of others.

THE BESSEMER PROCESS.—The growing application of the Bessemer system to the production of steel, with the much larger attention that is being paid now than has been paid for some time past in the application of steel to uses before assigned to iron, is occasioning a growing demand in South Staffordshire. Mr. Clayton, at Westbromwich, is now erecting eighteen furnaces at the works of the Dowlais Company, twenty-four at the Barrow Steel Works, is making castings for six at Ebbw Vale, is on with the third lot for Messrs John Brown & Co., Sheffield, and after putting up twenty-two for Messrs. Cammill & Co., at the Cyclops Works, in the town, is now putting up six for the Yorkshire Steel and Ironworks of the same firm at Penistone. The same maker, is also putting up furnaces at the Lancanshire Steel Works, Gorton Lane, and at the Gibraltar Works, Newton Heath. These furnaces are all for smelting iron to make steel or for the heating of ingots of steel.—*London Engineer*.

REMOVAL!

R. WEGENER,
Accountant and Mining Secretary
Has removed to
No. 415 Montgomery Street—west side,
Between Sacramento and California sts.,
6v10 SAN FRANCISCO.

NEW YORK PRICES.
WATCH REPAIRING AT NEW YORK PRICES.
C. E. COLLINS,
No. 502 Montgomery street, San Francisco.
EXCLUSIVE AGENT
—FOR THE—
AMERICAN
WATCH FACTORY.
A large assortment of these
Superior Watches,
In Gold and Silver Cases,
Constantly on hand, and sold at Factory prices. Also,
ENGLISH AND SWISS WATCHES.
Imported directly from the Manufacturers.
The American Company are now making
VERY FINE WATCHES FOR LADIES.
☞ A large assortment of Gold Chains and Jewelry. 25v10-6m
WATCH REPAIRING AT NEW YORK PRICES.
NEW YORK PRICES.

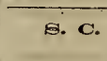
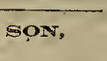
Wanted.
GOLD QUARTZ
Suitable For Cutting Jewelry,
By FRONTIER & DEVIERCY,
19v10-2m 437 ne street, San Francisco

Professional Cards.

Our Patent Agency.
The PATENT AGENCY of the MINING AND SCIENTIFIC PRESS has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of LETTERS PATENT from the United States and foreign Governments cannot be over-rated, and the Proprietors of the PRESS, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

WM. L. DUNCAN,
Stock Broker,
No. 605 Montgomery Street, San Francisco.
Mining Shares and Legal Tender Notes bought and sold strictly on commission. Liberal cash advances made on stocks consigned for sale. 1v11-3m

S. C. BUGBEE & SON,
ARCHITECTS.
DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.
74 and 75 Montgomery Block,
SAN FRANCISCO. 25v10-3m

DR. H. AUSTIN,

DENTIST,

No. 634 Washington Street,
Between Montgomery and Kearny Streets
[OVER SAN FRANCISCO BATHS]
SAN FRANCISCO. 20v10-qy

To Mining Companies.
A gentleman who has had many years experience in Mining Superintendence, wishes employment in a first-class mine as Superintendent. The most satisfactory references given. Enquire at this office. 16v10-tf

N. LOMBARD INGOLS,
Accountant and General Factor,
No. 32 Montgomery Block.
Address, Box 2123, Postoffice, San Francisco. 9v10

A. S. EDWARDS. JAMES N. OLNEY.
EDWARDS, OLNEY & CO.,
Real Estate, Stock, and General
Auction & Commission House,
No. 626 Montgomery Street, Montgomery Block.
JAMES N. OLNEY—Auctioneer.
SECRETARIES of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

AUGUST KUNAST,
Stock Broker,
Member of the
San Francisco Stock and Exchange Board,
Buys and Sells Stocks, Bonds, Etc.
Office, No. 510 Washington Street, San Francisco.
2v10

G. F. DEETKEN,
Mining Engineer and Metallurgist,
Address - - - - - San Francisco. 25v9

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for the State of Nevada and the Territory of Arizona,
AND FOR THE
STATES OF MASSACHUSETTS AND MAINE.
Office, Montgomery Block, 626 Montgomery Street,
10v8-2m SAN FRANCISCO.

FREDERICK MANSELL.
Mechanical & Architectural Draughtsman,
No. 422 California street, corner of Leidsdorff.
Drawings of MODELS made for parties applying for patents at Washington or London. mar23-tf.

GEORGE H. BAKER.
Lithographer & Engraver,
No. 522 Montgomery St., San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

SHERMAN DAY,
Mining Engineer,
No. 56 Montgomery Block, San Francisco,
Will examine, survey and report upon mines, and consult and advise concerning investments in mining property, or the machinery management and expenditures of mines.
22q*

LEANDER RANSOM,
Civil Engineer and Surveyor,
Having been connected with the public works of the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also STATE LOCATING AGENT, and as such having the sale of
600,000 Acres of State School Lands,
At the low price of $1.25 per Acre. Terms; Twenty per cent in cash and the balance on a credit of several years.
7v9-t Office, 328 Montgomery street.

Trades and Manufactures.

Pacific Glass Works
Are now prepared to execute orders for the manufacture of
All Kinds of Bottles to Order.
Office, No. 621 Clay street, San Francisco. 3v11-3m

EDWARD BOSQUI & CO.,
PRINTERS,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
No. 517 Clay street, between Clay and Sansome streets,
SAN FRANCISCO. 24v10

RUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery and Sansome, San Francisco. 4v8-tf

JOHN DANIEL,
(SUCCESSOR TO O. GORI)
MARBLE WORKS,
No. 408 Pine st. bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs,
Etc., On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco.
Barstow's Metallic Burial Caskets and Cases.
1tf

THEODORE KALLENBERG,
Maker of Models for Inventors.
MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
No. 418 Market street, San Francisco. n7-tf

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Penn.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco. 10v8-1m

WE ARE NOW OFFERING
OUR IMMENSE STOCK
—OF—
Fine Custom Made Clothing
—AND—
Gents' Furnishing Goods
AT PRICES THAT DEFY COMPETITION.
Our Stock of Clothing Consists of
ALL THE LATEST STYLES
BOTH OF MATERIAL AND FINISH.
A Large Assortment of
Trunks, Valises, Carpet Bags, Blankets, Etc.,
AT EXTREMELY LOW PRICES.
J. R. MEAD & CO.,
8v10 Cor. of Washington and Sansome streets.

GUSTAVUS MEYER,
(LATE METER & SEIFERTH)
Maker of Models for Inventors and Mining Tools.
MANUFACTURE Assayers' Scales, Weights, and all articles used by Assayers; Mathematical, Optical, and Mining Instruments repaired and adjusted; Patterns, Small Steam and Air Engines (of the newest construction), and Hydraulic Pressure Pumps, made to order.
No. 531 Market street, opposite Sansome, San Francisco.
21v9-tfq

LEHIGH COAL.
200 Tons Large Lump Lehigh Coal
Now on Hand.
I am also in constant receipt of
LEHIGH COAL,
And will be able to supply it always
At the Lowest Market Price.
JAMES R. DOYLE,
20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

PREMIUMS.
1st Premium, at Sacramento Fair.....1862
1st Premium, at S. F. Bay District....1864
1st Premium at Sacramento.....1863
1st Premium, at San Francisco.....1864
1st Premium, for Cordials.....1864
1st Premium, for Hygienic Bitters....1864
Awarded to
V. SQUARZA.

Metallurgy.

EUROPEAN
METALLURGICAL WORKS,
—AND—
Practical Mining School,
Bryant Street, Between Third and Fourth,
SAN FRANCISCO.
THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the so-called "refractory ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.
PRACTICAL MINING SCHOOL.
The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.
S. P. KIMBALL, J. R. MURPHY.
10v10

NOTICE
—TO—
COPPER MINING COMPANIES.
The undersigned offer their services for the construction and working of
Furnaces of the most approved form
And on the most economical principle,
For the reduction of COPPER ORES. For further information apply at the office of the CALIFORNIA COPPER SMELTING COMPANY, No. 540 Clay street (office No. 4), San Francisco.
5v11-tf R. EMERSON & CO.

FIRST PREMIUM
FOR REFINING COAL OIL,
At the Mechanics' Institute Fair, 1864.
The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.
17v10 E. BENOIST, Engineer and Chemist, 643 Third Street, bet. Brannan and Townsend.

To Prospectors.
THE Directors of the San Francisco PACIFIC METALLURGICAL WORKS offer the following inducements to Prospectors:
NOTICE.—Knowing it will benefit our country to have it well prospected, we agree, if any party will forward us samples of minerals of any kind for assay, express paid, inclose TWO DOLLARS for the same, to return them a correct assay, with the best method of working, and feasibility of having the same worked in this city.
WORKS—North Beach. OFFICE—511 Sacramento street. Box 511, Post Office, San Francisco. [v9-20tf

ASSAYERS
Desirous to commence an ASSAY OFFICE in the mines may buy, at a very low figure, in a prosperous mining county, a complete set of Assaying Apparatus, Scales, Chemicals, and everything necessary to carry on said business. Apply to Lock Box No. 782, Postoffice, San Francisco, stating name and where an interview may be had. 17v10

WILLIAM PENROSE,
Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,
Is prepared to buy in any quantity
COPPER, SILVER, GOLD, LEAD
AND OTHER VALUABLE ORES;
Also Lead Bars Containing Gold and Silver,
☞ Full value paid on delivery in this City. ☜
Address Lock Box No. 992, P. O., San Francisco. 25v10

Copper, Lead, Gold, Silver,
Nickel and Cobalt Ore.
The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to
THOMAS PRICE,
Agent for Townshend, Wood & Co., Swansea,
No. 416 Battery street, San Francisco.
6v10-3m

ORES WANTED.
Gold, Silver and Lead Ores Purchased,
OR WORKED BY SMELTING OR AMALGAMATING,
At my Metallurgical Works in the City
Assay Charges for Ore.....Only $2.50
Apply to J. MOSHEIMER,
14v10-1m 338 Montgomery Street, San Francisco.

MARTIN & CO.,
Office, Stevenson House,
Corner California and Montgomery streets (up stairs).
WILL CONTRACT FOR THE
PURCHASE OF COPPER ORES,
Assaying eight per cent. and upwards of Copper to be on.
We will make advances upon Ores of Copper,
San Francisco, Post Office Box 1259, 22v10

SAN JOSE INSTITUTE
— AND —
COMMERCIAL COLLEGE,
LOCATED AT SAN JOSE, CAL.
MALE AND FEMALE.

The next session of this Institution will commence on
Monday, July 31, 1865

An experienced and competent BOARD OF INSTRUCTION is engaged, and every facility will be afforded for a thorough course of study, both in the Academic and Commercial departments.
Circulars, containing full particulars, furnished upon application to F. GATES, Director,
2vl03n San Jose, Cal.

SANTA CLARA COLLEGE, S. J.,
SANTA CLARA, CAL.
Conducted by the Fathers of the Society of Jesus.

The FIFTEENTH ANNUAL SESSION of this College will commence on
Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $350

For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco.
3vll REV. A. MASNATA, S. J., President.

BLASTING
POWDER.
EDWARD H. PARKER,
No 224 California Street,
Agent of the
Hazard Powder ompany.

EUREKA
PATENT BLASTING POWDER.
Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets.
Room No. 9, with San Francisco Chemical Works,
CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2vl1qy

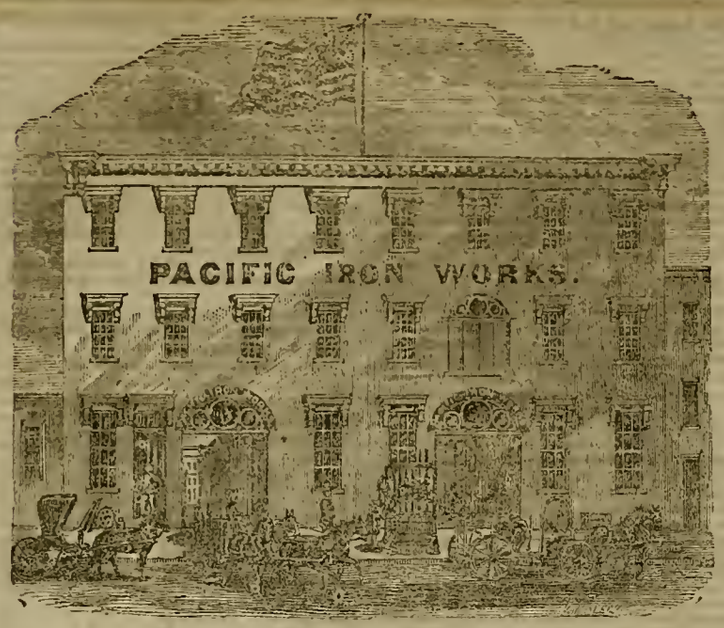
LEWIS COFFEY. J. S. RISDON
LEWIS COFFEY & RISDON,
Steam Boiler & Sheet Iron Works.
THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality.
Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

GEORGE T. PRACY,
Machinist and Blacksmith.
EAM ENGINE, FLOUR AND SAW MILL And Quartz Machinery, Printing Presses,
— AND —
MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.
Nos. 109 and 111 Fremont street, near corner of Mission,
OPPOSITE MECHANICS' MILL,
qy-3 SAN FRANCISCO.

JOHN P. GALLAGHER. JOSEPH WEED.
GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.
ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Ship Work in general.
☞ All Jobs promptly attended to. Prices moderate.☜
No. 125 First street, opposite Minna next door to Pacific Foundry. 3vlf
[Removed from Oregon street, between Front and Davis.]

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.



THE PACIFIC IRON WORKS,
First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting machinery of the most approved construction, Flour, Saw and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Buttery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully solicited.

GODDARD & COMPANY.

Machinists and Foundries.
H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.
UNION IRON WORKS!
Corner First and Mission streets,
SAN FRANCISCO.
ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Quartz Mills, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Coining Machinery; Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.
Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter. Also, Scott and Eckart's Adjustable Cut-off Regulator—best in use; W. R. Eckart's Balance Valve for Stationary Engines; Woodward's Patent Steam Pump and Fire Engine.

Boilers.
Locomotive, Flue, Tubular, Upright, Cylinder and Cornish, and every variety of Boiler Work. All sizes of tubes and pipes for pumps.

Amalgamating Machinery.
Wheeler & Randall's improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Beldin's pan, Ventelli's tubs, Patera's concentrators, Walker's pans, Bees' pan, German barrels, Arastra Gearing, Chilie Mills, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

BLAKE'S PATENT QUARTZ CRUSHERS, of all sizes.

Oil Boring Tools and Machinery,
Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.
We have the facilities for working gold and silver quartz and other ores, to test their value, by the hundred weight or ton.
Russia Iron Screens, of all degrees of fineness and of all qualities of iron.
All work done in the best manner at the lowest cash prices.
21vl0 **H. J. BOOTH & CO.**

MINERS' FOUNDRY
— AND —
MACHINE WORKS,
First St., between Howard and Folsom Streets,
SAN FRANCISCO.

EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as

Steam Engines and Boilers, Flour, Saw and Quartz Mills,
Machinery, Mining Pumps, Amalgamators,
Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.
*** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, free of cost.
All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.
HOWLAND, ANGEL & KING.

Vulcan Iron Works Company
[ESTABLISHED 1850.]
First, Natoma and Fremont Streets.
IRON FOUNDERS,
Steam Engine and Locomotive
BUILDERS,
Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.
The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as
Mining, Steamship, and Steamboat Machinery,

Railroad Machinery,	Flouring Mills,
Locomotives,	Quartz Mills,
Car Trucks,	Sugar Mills,
Car Wheels,	Saw Mills,
Housings and Irons; and	

Manufacturing Machinery of Every Kind.

Sole Manufacturers of
HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR
BETH'S AMALGAMATOR;
HERSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;
BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;
FAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;
JONVAL'S IMPROVED WATER WHEEL;
STEVENS'S PISTON PACKING RINGS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.
Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27
☞ As a sample of our manufacture, we invite the attention of visitors at the Fair to our Double-piston Engine, by which the DAILY FAIR PRESS is propelled, in the Pavilion.

NOVELTY IRON WORKS,
Steam Engine, Boiler and Machine Shops.
STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.
Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.
WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY*. Send for a Circular.
E. T. STEEN.
39 and 41 Fremont, and 42 and 44 Beale Sts.,
SAN FRANCISCO 21v91fo

FULTON
FOUNDRY AND IRON WORKS.
HINCKLEY & CO.,
MANUFACTURERS OF
STEAM ENGINES,
Quartz, Flour and Saw Mills,
Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.
Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 8-qy

W. T. GARRATT,
City
BRASS AND BELL FOUNDER,
Cor. Market and First Sts., opposite Oriental Hotel,
SAN FRANCISCO.
Manufacturer of Brass, Zinc, and Anti Friction or
Babbet Metal Castings;
CHURCH AND STEAMBOAT
BELLS,
TAVERN AND HAND BELLS AND GONGS,
FIRE ENGINES, FORCE AND LIFT PUMPS,
Steam, Liquor, Soda Oil, Water and Flange Cocks, and Valves of all descriptions, made and repaired. Hose and all other Joints, Syphon, Solder, and Copper Rivets, &c. Gauge Cocks, Cylinder Cocks, Oil Globes, Steam Whistles,
HYDRAULIC PIPES AND NOZZLES
For Mining purposes, Iron Steam Pipe furnished with Flanges, &c. Coupling Joints of all sizes. Particular attention paid to Distillery Work. Manufacturer of "Garratt's Patent Improved Journal Metal."
☞ Highest Market price paid for OLD BELLS, COPPER AND BRASS. ☜ 6tf

PALMER, KNOX & CO.,
Golden State Iron Works,
Nos. 19, 21, 23 and 25 First Street,
SAN FRANCISCO.
MANUFACTURE ALL KINDS OF
MACHINERY,
STEAM ENGINES AND QUARTZ MILLS
DUNBAR'S IMPROVED
Self-Adjusting Piston Packing,
Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.
WHEELER & RANDALL'S
NEW GRINDER AND AMALGAMATOR,
HEPBURN & PETERSON'S
AMALGAMATOR AND SEPARATOR,
Tyler's Improved Water Wheel,
Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.
KNOX'S AMALGAMATORS,
WITH PALMER'S PATENT STEAM CHEST,
Superior for working either Gold or Silver Ores.
Genuine White Iron Stamp Shoes and Dies.
Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13vl0qy-tf

SAN FRANCISCO
Foundry and Machine Works,
N. E. Cor. Fremont and Mission streets,
Manufacturers of
Marine and Stationery Enginss,
Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.
—ALSO—
Wine, Cider, Cotton and Tobacco Presses of the latest Improved Patterns.
Brodie's Improved Patent WIND BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Baux & Guiod's Amalgamator and Separator; W. W. Tupper's Patent Sectional Grate Bar; Coal Oil Well Boring Machinery complete, on hand.
STEAM ENGINES AND BOILERS,
Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.
MACHINERY, OF ALL DESCRIPTIONS,
Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates. 6vll-1y
DEVOE, BINSMORE & CO.

UNION IRON WORKS,
Sacramento.
WILLIAMS, HEILBRON & CO.,
MANUFACTURERS OF
STEAM ENGINES, BOILERS,
And all kinds of Mining Machinery.
Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.
Front Street, between N and O streets,
6vl0 SACRAMENTO CITY.

JOHN LOCHHEAD'S
STEAM ENGINE WORKS,
Beale Street, near Mission Street,
SAN FRANCISCO.
Steam Engines of every description built to order—Marine, Stationary, or Locomotive.
Hoisting and Pumping Engines,
Portable Engines of all Sizes; Donkey Pumps, Etc.
25v9q JOHN LOCHHEAD, Practical Engineer.

PORTLAND BOILER WORKS.
MOYNIHAN & AITKEN,
BOILER MAKERS AND SHEET IRON WORKERS.
N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.
Mission street, between Beale and Fremont streets, San Francisco. qy29-1

PHOTOGRAPHIC CHEMICALS.—The attention of photographic artists is called to the fine display of granulated and chrystalized nitrate of silver, which has recently been placed by Dr. Lanszweert, in a show case, in the MINING AND SCIENTIFIC PRESS Mineral Department. It is a matter of the greatest importance to the photographer, that he should be supplied with a pure article of nitrate of silver, and to this end Dr. L. has made this preparation a special study. He prepares and exhibits it both chrystalized and granular; in the latter form to avoid the necessity of handling the chrystals, to break them up, where small quantities only are wanted. These samples are a home product, made of California silver and fully equal, if not superior to the best that can be imported. The amount of this article required by the photographers on the Pacific Coast cannot be less than 400 pounds a month—a very important item when its value is taken into consideration.

In the same case with the above, we find samples of copper ores, copper hullion, and sulphate of copper, from Peavine Valley, Nevada, with diplomas awarded to Dr. Lanszweert by the managers of the Washoe Fair of 1863. The sulphite of copper was manufactured direct from the poor ores of that metal, without the use of "free sulphuric acid," and by a process of his own, which the Doctor has freely given to the world, and fully described in the MINING AND SCIENTIFIC PRESS of a recent date.

ABORIGINAL AND LABRADONIAN AUTOMATON TOYS.—In one of the show cases of our collection of minerals and curiosities, are several automaton toys of a very ludicrous character. Three of the figures are men, and three women, to represent members of the Digger Indian tribe, of Digger manufacture. Three others—a man, wife and baby, clad in skins—are from Labrador; and, like Cassio's wine, "'fore God, are better than 'tothers." The whole are funny enough, and will excite a smile on the countenance of whoever sees them.

HAZARD'S POWDER.—Every sportsman knows something about Hazard's duck and rifle powder. It is the most popular brand in the United States. Edward H. Parker is a large dealer in that article, including blasting powder and fuse. He also deals in shots of all sizes—specially Tatham's patent finish drop shot. Place of business, 224 California street. We recommend our friends, with a great deal of confidence, to Mr. Parker's establishment, whenever they wish a reliable article at a fair price.

THE population of California in 1831 was a little over twenty-three thousand; in the early part of 1849, twenty-six thousand; in 1850, one hundred and seventeen thousand; in 1852, two hundred and sixty-four thousand; in 1857, five hundred and thirty-eight thousand, and at this time is over six hundred thousand.

New Mining Advertisements.

Continued Mining Advertisements will be found on other pages.

Apollo Gold and Silver Mining Company, Lauder county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable on the 9th day of September, 1865, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. se9

Block Ledge Gold and Silver Mining Company Lauder county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of two ($2) dollars per share was levied upon the capital stock of said Company, payable on the 9th day of September, 1865, in United States currency, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 24th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. se9

Blue Ledge Gold and Silver Mining Company, Lauder county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 9th day of September, 1865, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. se9

Dunkirk Gold and Silver Mining Company, Reese River District, Lauder county, Nevada.

Notice is hereby given, that a Special Meeting of stockholders of the above named company, will be held at the office of the company, No. 312 and 314 Front street, San Francisco, on Saturday, the 23d of September, 1865, at 2 o'clock, P. M., for the election of Trustees.

se9td (Signed.) J. B. COFFIN, President.

Edward Everett Silver Mining Company, Cortez Mining District, Lander county, Nevada

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of April, 1864, an assessment of twenty cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner Clay and Front streets, San Francisco, California. se9-5w

Office of the Great Western Tunnel and Mining Company.—San Francisco, September 5th, 1865.

The Annual Meeting of the stockholders of the above Company will be held at the office of the President, Dr. I. Rowell, No. 520 Kearny street, San Francisco, on Thursday, the 5th day of October, 1865, at 10 o'clock A. M., at which the attendance of all stockholders is requested.

se9-td JOS. C. FORD, Secretary.

Hanscom Copper Mining Company, Low Divide District, Del Norte county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of fifteen cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, 609 Market street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

S. S. SWEET, Secretary.

Office, 609 Market street, San Francisco, Cal. se9

Joe Lane Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 4th day of September, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable on the 9th day of September, 1865, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. se9

Jewett Gold and Silver Mining Company, Gold Hill District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of September, 1865, an assessment of one ($1) dollar per share was levied upon the assessable capital stock of said company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Thursday, the 4th day of October, 1865, will be advertised as delinquent, and unless payment shall be made before, will be sold on Saturday, the 21st day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. M. BURNHAM, Secretary pro tem.

Office, 509 Clay street, San Francisco. se9

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander County, Nevada.

All persons are hereby cautioned not to purchase the following described stock, sold for delinquent assessment No. 6 September 6th, 1865, as said stock will not be transferred on the books of the Company, viz:

No.	Shares.	In name of	Shares taken.
51	7½	James H Hardy	2½
60	6½	George Work	4½

San Francisco, Sept. 8th, 1865.

E. J. DRINKHOUSE, Secretary.

Office, 228 Front street, San Francisco, Cal. se9 2w

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

Segregated Belcher Mining Company, Gold Hill District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of September, 1865, an assessment of two dollars per share was levied upon the capital stock of said Company, payable on the 11th day of September, 1865, in United States gold and silver coin, to the Secretary, 318 California street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOHN F. LOHSE, Secretary.

Office, No. 318 California street (up stairs), San Francisco, California. se9

Scott Mining and Exploring Company, Humboldt county, State of Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of Assessment levied on the 5th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
E A Scott	10	800	$240 00
E A Scott	11	500	150 00
E A Scott (bal due)	144	4	1 60
E A Scott	143	25	20 00
E A Scott	142	25	20 00
E A Scott	187	25	20 00
E A Scott	188	50	40 00
John Barry	113	50	40 00
John H Holman	186	50	40 00
George W Dam	148	2	1 60
George W Dam	184	2	1 60
Linebar & Wiseman	41	5	4 00
Louis Glassen	42	10	8 00
Melina Charreau	48	5	4 00
Albert Aubert	49	5	4 00
J M Bowles	181	25	20 00
N Fike	180	10	8 00
Steve A Rendell	191	15	12 00

And in accordance with law, and an order of the Board of Trustees, made on the 5th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Maurice Doro & Co, No. 427 Montgomery street, San Francisco, on the 25th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

V. B. POST, Secretary.

Office, 1421 Taylor street, San Francisco, Cal. se9 3w

Yankee Blade Tunnel Company, Reese River District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 4th day of September, 1865, an assessment of thirty (30) cents per share was levied upon the capital stock of said Company, payable on the 6th day of September, 1865, in United States gold and silver coin, to the Secretary, at his office, 305 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 27th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, San Francisco. se9

Mining Notices—Continued.

☞ *New Mining Advertisements to be found on another page.*☜

Baltimore Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 16th, 1865, at 10 A. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Bolinas Petroleum Co., Bolinas Township, Marin county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of August, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the 16th day of August, 1865, in United States gold coin, to the Secretary, 611 Clay street, Room 8, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 2d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

W. L. KIRBY, Secretary.

Office, 611 Clay street, San Francisco. au19

Emilia Mining Company, State of Guerrero, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of August, 1865, an assessment of twenty-five cents per share was levied upon the assessable stock of said company, payable on the 17th day of August, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, No. 55 Montgomery Block, in the city and county of San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, southeast corner of Montgomery and Washington streets. Office hours, 10 A. M. to 3 P. M.

San Francisco, August 16, 1865. au19

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

El Dorado Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 16th, 1865, at 2 P. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Eagle Quartz Mining Company, Amador County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 29th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
J Arnold	91	5	$3 75
J P Bush	10	100	75 00
J P Bush	11	10	7 50
J P Bush	103	10	7 50
N Blackstone	22	50	37 50
R P Cutter	151	15	11 25
E L Goold	43	50	37 50
E L Goold	113	455	341 25
S P Hardis	137	100	75 00
G S Haskell	39	10	7 50
G S Haskell	36	20	15 00
H S Hudson	61	10	7 50
S Henry	63	10	7 50
T E Jones	27	10	7 50
A Lull	124	50	37 50
T Pritchard	86	10	7 50
I Rowell	8	25	18 75
T F Ruffey	29	10	7 50
P Robinson	107	84	63 00
E Schell	71	15	11 25
E D Waters	150	100	75 00
E D Waters	18	20	15 00
E D Waters	19	20	15 00
E D Waters	99	83	62 25

And in accordance with law, and an order of the Board of Trustees, made on the 29th day of July, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of Edward's, Olney & Co., 626 Montgomery street, San Francisco, on the 22d day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

G. PARDOW, Secretary.

Office, 15 Montgomery Block, San Francisco. se2 3w

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on September 17th (Sunday)—changed to Monday, September 18th, 1865, at 2 P. M. of said day.

au12 4w W. H. ROOT, Secretary.

Globe Gold and Silver Mining Company, Monitor District, Alpine county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22d day of August, 1865, an assessment of two dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, or to ISAAC S. POWERS, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 23d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Thursday, the 12th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

V. B. POST, Secretary.

Office, 1421 Taylor street, San Francisco, Cal. au26-5w

Honcat Miner Gold and Silver Mining Company, Reese River Mining District, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 22d day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Allen, H H	bal 280	130	$50 00
Adams, Cyrus	162	5	2 50
Bradley, H W	41	11	5 50
Bradley, H W	207	5	2 50
Bradley, H W	218	5	2 50
Bertoly, Chas	147	10	5 00
Cleary, F D	230	2	1 00
Cleary, F O	234	2	1 00
Drinkhouse, J A	241	104	52 00
Detrick, F R	273	2	1 00
Francis, D B	84	7	3 50
Francis, D B	240	10	5 00
Frauk, J	165	22¾	11 25
Gayle, A B	149	4	2 00
Gayle, A B	157	2	1 00
Gorman, Jno	237	1	50
Heath, R W	39	8	4 00
Hoffman, S	252	10	5 00
Leppien, Fred	38	3	1 50
Leppien, Fred	204	2	1 00
Ladd, W. Frank	213	3	1 50
Litchfield, W D	274	3	1 50
McDaniels, D	35	3	1 50
Nicol, W	211	1	50
Reed, J L	124	18	9 00
Reed, J L	232	2	1 00
Stoddard, S B	120	2	1 00
Shipley, A J	163	3	1 50
Shipley, A J	215	10	5 00
Shipley, A J	216	5	2 50
Shipley, A J	217	5	2 50
Turner, Anna K	47	5	2 50
Trask, Jno B	124	4	2 00
Tureman, C W	182	5	2 50
Upton, M	208	10	5 00
Williams, J J	31	3	1 50
Wightman, Jno	43	6	3 00
Whitlatch, J W	89	1	50
Whitlatch, J W	91	7	3 50
Woodleaf, H	173	5	2 50
Work, George	193	10	5 00
Work, Jno W	178	7	3 50
Work, Jno W	264	3	1 50

And in accordance with law, and an order of the Board of Trustees, made on the 22d day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold at public auction, by Jones & Bendixen, auctioneers, at the office of the Company, on the 12th day of September, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street (up stairs). au26-3w

Illinois Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 19th, 1865, at 10 A. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Imperatrice Eugenie Gold and Silver Mining Company—Location of Works: Blue Mountain Mining District, county of Calaveras, State of California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the first day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Baudut, P	217	20	$5 00
Breed, K A	305	5	1 25
Bibenrieth, John	299	10	2 50
Carnin, J	278	50	12 50
Chabvet, Justin	304	25	0 25
Day, T H, Miss	277	10	2 50
Dissat, Antoine	210 211 2 2	150	37 50
Guenette, Eug	294	5	1 25
Hartman, H	225 298 295	40	10 00
Hernster, G o	310	10	2 50
Lawlor, Geo W	224	10	2 50
Marchand, E	295	35	8 75
Marchebout, A	226	25	6 25
Morrow, Geo	213	25	6 25
Roth, Louise	292	5	1 25
Sonneuberg, L B	258 300 306 309	100	25 00
Sajous, Marly	236	5	1 25
Terme, Louise	312	25	6 25

And in accordance with law, and an order of the Board of Trustees, made on the 1st day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Bore & Co., No. 327 Montgomery street, San Francisco, on Tuesday, the 10th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

A. KOENIG, Secretary.

Office, 804 Montgomery street, San Francisco. sep2-3w

Klamath Ravine Company, Sierra County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of August, 1865, an assessment of twenty-five dollars ($25) per share was levied upon the capital stock of said Company, payable on the 19th day of August, 1865, in United States gold and silver coin, to the Secretary, H. NIELSEN, 210 Front street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 2d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

H. NIELSEN, Secretary.

Office, 210 Front street, San Francisco. aul9

Lady Franklin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of August, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the 21st day of August, 1865, in United States gold and silver coin to the Secretary, at his office, 305 Montgomery street, San Francisco, or to THOMAS PETERS, at the mine, at Silver Mountain, Cal

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 6th day of October, 1865, at the office of the Company, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, Rooms 5 and 6, San Francisco. aul9

Lady of the Lake Gold and Silver Mining Company—Location of Works: Mohave county, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 17th day of August, 1865, an Assessment of 25 cents per share was levied upon the Capital Stock of said Company, payable August 19th, 1865, to the Secretary, at his office.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 2d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary.

Office, 302 Montgomery street, San Francisco. aul9

Lord Byron Gold and Silver Mining Company—Location of Works: Devil's Gate District, Lyon county, Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 24th day of July, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
C Anderson	26	25	$12 50
R W Berry	2	13	6 50
R W Berry	64	30	15 00
R W Berry	132	5	2 50
T F Bagge	35	25	12 50
W D Dyer	131	43	21 50
M G Elmore	145	10	5 00
E D Graff	141	5	2 50
A E Head	121 122 123 124 125 126 25 ea	150	75 00
A E Head	127	14	7 00
W M Huntoon	135 130 137 138 139 10 ea	50	25 00
W M Huntoon	140	13	0 50
John Korlus	130	10	5 00
S F Leonard	103	25	12 50
G J Lansing	70	10	5 00
Franklin Morgan	76	10	5 00
Franklin Morgan	158	164	82 50
O S McNamara	104	25	12 50
Barnus Mickkelson	44	5	2 50
C W McNutt	63	20	10 00
R McMurray	80	100	50 00
R McMurray	148	212	106 00
R H Nason	23	10	5 00
R H Nason	25	5	2 50
Mary A Nichols	43	50	25 00
P C Olsen	61	10	5 00
A S Rogers	3	12	6 00
A S Rogers	22	25	12 50
E Smith	133	15	7 50
Maurice Shehan	38	50	25 00

And in accordance with law, and an order of the Board of Trustees, made on the 24th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the salesroom of Edwards, Olney & Co., at No. 626 Montgomery street, San Francisco, on Monday, the 11th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

H. B. CONGDON, Secretary.

Office, 620 Washington street (room 5), San Francisco California. au26 3w

La Favorita Mining Company, Montezuma District, Sonora, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 3 th day of August, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 31st day of August, 1865, in United States gold coin, to the Secretary, 429 Sacramento street, San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 30th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 14th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

E. WASSERMAN, Secretary.

Office, 429 Sacramento street, San Francisco. se2

Leland Gold and Silver Mining Company.—Location of works: Mohave county, Arizona Territory.

Notice is hereby given, that at a me ting of the Board of Trustees of said Company, held on the17th day of August, 1865, an assessment of 25 cents per share was levied upon the capital stock of said Company, payable on the 19th day of August, 1865, to the Secretary, at his office.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, October 2d, 1865, at 12 o'clock, M., to pay the delinquent assessment, together with costs of advertisment and expenses of the sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary.

Office, No. 302 Montgomery street, San Francisco. au19

Mosquito Quartz Mining Company, Calaveras County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 22 l day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
C Bernard	55	2	$10 00
D Davidson	117	5	25 00
F Goichaux	167	12	60 00
E L Gould	170	10	50 00
F H Hill	71	1	5 00
F H Hill	159	1	5 00
B Levy	75	2	10 00
G Mabe	164	1	5 00
L Percy	126	5	25 00
A Pardilier	133	1	5 00
F Rollett	192	2	10 00
H Schmitt	78	5	25 00
H Schmitt	191½	5	25 00
A Tepiere	219	50	250 00
F M Wellhoff	109	2	10 00

And in accordance with law and an order of the Board of Trustees, made on the 22d day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction at the salesroom of Messrs. Edwards, Olney & Co., No. 626 Montgomery street, on the 15th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

G. PARDOW, Secretary.

Office, 15 Montgomery Block, San Francisco. au26-3w

Mammoth Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 9th, 1865, at 2 P M. of said day.

aul2 4w J. WARREN CLARK, Secretary

Napa Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 12th, 1865, at 10 A M. of said day.

aul2-4w J. WARREN CLARK, Secretary.

Nevada Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of August, 1865, an assessment of fifty cents per share, was levied upon the capital stock of said Company, payable on the 19th day of August, 1865, in United States gold and silver coin, to the Secretary, 402 Front street, San Francisco

Any stock upon which said Assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 6th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street (up stairs), San Francisco. au19

Porter Gold and Silver Mining Company, Virginia District, Nevada,

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of July, 1865, an assessment of five dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at 534 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 14th day of October, 1865, to pay the delinquent assesment thereon, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. W. WESTON, Secretary.

Office, 534 Clay street, San Francisco. jy22

This assessment is re-advertised on account of omission to advertise the delinquent list at the proper time. By order of the Board of Trustees.

C. W. WESTON, Secretary.

San Francisco, September 1, 1865. se2

Silver Creek Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 19th, 1865, at 2 P. M. of said day.

aul2 4w J. WARREN CLARK, Secretary.

Sierra Nevada Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 12th, 1865, at 2 P M. of said day.

aul2-4w J WARREN CLARK, Secretary.

Santa Cruz Petroleum Oil Works Company—Location: Santa Cruz County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of August, 1865, an assessment (No. 13) of thirty (30) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, R. WEGENER, 415 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. WEGENER, Secretary.

Office, 415 Montgomery street, San Francisco, Cal. au19

Santa Cruz Petroleum Oil Works Company—Location: Santa Cruz county, California.

The third Annual Meeting of the stockholders of the above Company will be held at their office, 415 Montgomery street, San Francisco, California, on Tuesday, the 26th day of September, 1865, at 8 o'clock P. M., for the purpose of electing Trustees to serve for the ensuing year and such other business as may properly come before it.

LEANDER RANSOM, President.

R. WEGENER, Secretary.

N. B.—All stockholders who cannot be present are earnestly requested to file their proxies with the Secretary au12

Silver Prize Gold and Silver Mining Company, Silver Mountain District, Alpine county, California

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Wednesday, September 20th, 1865, at 2 P. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

St. Clair Consolidated Silver Mining Company, Smoky Valley District, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 21st day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares	Amount.
W Beck	39 40	200	$100 00
James Phelan	48	200	100 00
J D Boyd	45	200	100 00

And in accordance with law, and an order of the Board of Trustees, made on the 1st day of September, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction at the salesroom of Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, on the 16th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

AUG. KUNAST, Secretary.

Office, 540 Washington street, San Francisco. se2-3w

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 8th day of July, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Donie, W S	no cert. issued	100	$60 00
Rand, C W	no cert. issued	100	60 00
I S Church	no cert. issued	100	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 8th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, Cal., on the 2d day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

T. B. CUNNINGHAM, Secretary.

Office, 55 Montgomery Block, San Francisco. aul9-3w

POSTPONEMENT.—The above sale is hereby postponed until Saturday, September 9th, 1865, at the same hour and place. By order of the Board of Trustees.

sep9 T. B. CUNNINGHAM, Secretary.

Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22d day of August, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, in San Francisco, or to J. M. PIKE, Superintendent, at Copperopolis.

Any stock upon which said assessment shall remain unpaid on Friday, the 22d day of September, 1865, will be advertised on Saturday, the 23d day of September, 1865, as delinquent, and unless payment shall be made before, will be sold on Thursday, the 12th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco, Cal. se9

Tip Top Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Monday, September 18th, 1865, at 12 M. of said day.

aul2-4w J. WARREN CLARK, Secretary.

Tauras Mining Company, Santa Fe Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 29th day of August, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 14th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner Clay and Front streets, San Francisco, Cal. se2

Vulcan Mining Company, Santa Fe Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of August, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner of Clay and Front street, San Francisco, Cal. au19

Wisconsin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 12th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names	No. Certificates.	No. Shares.	Amount.
Amundson, Thomas	43 44 45-10 ea	30	$26 80
Amundson, Thomas	46 47-5 ea	10	10 00
Berry, Geo E	49	50¾	65 00
Bross, Jacob	39	5	5 00
Brown, Thomas	60	10	10 00
Brown, Thomas	61	7	7 00
Christianson, O & R	164	8	8 00
Christinson, O & R	165	5	5 00
Christinsun, O & B	not issued	41	41 00
Eckel, A W	73	8	8 00
Edson, Albert	154 155-10 ea	20	17 50
Eide, Neils	159	5	5 00
Gullickson, L	116	3	2 00
Halverson, Ole	5	15	15 00
Halverson, Ole	84 104 105 106 107 108-10 ea	60	60 00
Halverson, Ole	not issued	150	150 00
Helgerson, John	17	15	15 00
Helgerson, John	18	25	25 00
Helgerson, John	19 22-10 ea	20	20 00
Helgerson, John	20	15	15 50
Helgerson, John	not issued	55	55 00
Hawkins, H J	110 111-10 ea	20	20 00
Hawkins, H J	113 114-25 ea	50	50 00
Hawkins, H J	109	5	5 00
Hargrave, E J	86	5	5 00
Hessler, Chas	115	10	10 00
Harris & Co	137	5	5 00
Hohlerige, W	174	25	25 00
Johnson, John	25 26 27 28-25 ea	100	100 00
Johnson, John	29 30 31 32 33-10 ea	50	50 00
Johnson, Andrew	101	5	5 00
Johnson, Andrew	96 97 98-10 ea	30	30 00
Johnson, Andrew	99 100-20 ea	40	40 00
Johnson, J A	89	21	21 00
Johnson, J A	81	10	2 00
Jones, J M	153	12¾	12 50
Kirk, Chas	6 9 10 11-20 ea	80	80 00
Kirk, Chas	8	25	13 40
Kirk, Chas	12 13 15-10 ea	30	30 00
Kirk, Chas	not issued	95	95 00
Kirby, Z C	150	12½	10 00
Klentzer, Herman	151	5	5 00
Knutson, Iver	158	5	5 00
Levy, G N	54	5	2 50
Lee, O N	78	10	4 00
Lee, O N	79	13	13 00
Lee, O N	not issued	52	52 00
Lindau, Arnold	56	10	8 20
Lacy, J B	149	10	8 00
Mellu, C	57	20	8 00
Marks, M	139	10	10 20
Nelson, Neils	82	10	10 00
Nelson, Christopher	88	10	3 44
Nelson, Christopher	89 90 91 92 93 94 95-25 ea	175	175 00
Nelson, Christopher	1-8	5	5 00
Ogden, Thomas	62 63 64-20 ea	40	40 00
Ogden, Thomas	65 67 68 69-10 ea	50	40 00
Ogden, Thomas	138	5	5 00
Ogden, Thomas	not issued	60	60 00
Olson, Halver	120 121 122 123 124 125 126-20 ea	140	140 00
Olson, Thomas	71	10	2 00
Olson, Thomas	72	13	13 00
Olson, Peter	76	21	21 00
Olson, Peter	77	10	10 00
Owens, P A	135	20	20 00
Peterson, E H	33 40 41 42-5 ea	20	17 50
Rhodes, Alonzo	131	8	5 40
Rhodes, Alonzo	133	9	9 00
Ross, Louisa	134	10	10 00
Sutherland, J	53	10	9 20
Safford, H F	102 103-5 ea	10	9 00
Sorenson, O W	136	10	9 00
Severson, T	160	11	11 00
Severson, T	161 162-10 ea	20	20 00
Senter, Riley	166	8	8 00
Tanner, O	2	15	13 80
Thompson, P	130	10	8 20
Vanhorn, S	169	5	5 00
Werner, F	152	12½	12 50

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Messrs. Edwards, Olney & Co, 626 Montgomery street, San Francisco, on the 9th day of September, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. WARREN CLARK, Secretary.

Office, 410 Montgomery street, San Francisco. au26-3w

Wisconsin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on September 17th (Sunday) changed to Monday, September 18th, 1865, at 10 A. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Canvassing Agents.

We would call attention to the following named agents of the MINING AND SCIENTIFIC PRESS as gentleman worthy of the countenance of any community which they may visit and assistance rendered them in their efforts, by friends and old patrons, or our brethren of the PRESS, will be acknowledged as a personal favor to us:—

Mr. Robert Lattimore—Amador and Alpine counties and the State of Nevada.

Thos. Poyzer, of Grass Valley, for Nevada, Yuba and Sierra counties.

THE IRON MANUFACTURE.—The Philadelphia *Press* says the iron interest continues to be depressed throughout Pennsylvania, and both rolling mills, etc., and collieries, are closing every week. Many give the choice to their workmen of accepting lower wages or having the works closed, and the workmen generally prefer the latter course. In view of the dull state of the business, the proprietors are rather benefited thereby.

THE English sparrows which have been introduced into Jersey have cleaned the trees entirely of the worms. A pair will destroy six hundred caterpillers daily in feeding their young. The robin of this country is equally as good a tree vermifuge, and ought not to be killed by sportsmen. They are now found in our public squares, doing the work of clearing the trees of vermin.

MINING LAWS AND FORMS.

Third Edition revised and enlarged.

Compiled by H. B. CONGDON.

THIS Edition contains all the laws of the *STATE OF CALIFORNIA* and *NEVADA TERRITORY*, relative to Mining Corporations together with the Mining Ordinances of Mexico, complete; Digest of Decisions of the Supreme Court; Forms etc. 16 mo. flexible cloth, 192 pp. $2.50.

Published by H. H. BANCROFT & CO.

"Say, why should man for thirst be given
If not for wine bestowed by Heaven
To quench such drought as mine?
Without it, I'm a fish on land,
A barren heap of parching sand—
Then give me joyous wine."—*Trinklied.*

Delicacy of flavor, exhilaration without intoxication, and every other desirable property belonging to the rightly fermented Juice of the Grape, are to be found in the "Gerke Wine," from the celebrated Bosquejo Vineyard, Tehama county.

There is no wine produced in California that can bear comparison with this, and it would be difficult to find a European wine, of the same class, that can surpass it.

The vintage of 1862 is now offered for sale, in quantities to suit, by the Agent of the vineyard,

A. S. LOWNDES,

Basement of the New York Hotel, southwest corner Battery and Commercial streets, San Francisco. 20v10-qy

OIL WELL BORING.

J. SEVENOAKS,

Contractor

For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1529 San Francisco. 2v11

PARAGON PETROLEUM COMPANY.

Incorporated June 2, 1865,

Under the Laws of the State of California.

CAPITAL STOCK, $600,000.

NO. SHARES.....6,000

Par Value.....$100

OFFICERS:

President.....ROBERT KIRK

Treasurer.....WM. H. TOBEY

Secretary.....D. S. CUTTER

TRUSTEES:

ROBERT KIRK, T. G. DUFF, WM. H. TOBEY.

OFFICE:

t WM. H. TOBEY & CO.'S Petroleum Agency, Room No. 28 Government House, corner of Sansome and Washington streets, SAN FRANCISCO.

The claims of this Company consist of ONE HUNDRED AND SIXTY (160) ACRES of oil land, favorably located on the North Fork of the Mattole river, adjoining the grounds of the Union Mattole Company, Mattole District, Humboldt county, California. The Company are now actively engaged in the development of the claims.

KELLOG CREEK PETROLEUM AND MINING COMPANY.

INCORPORATED JULY 11TH, 1865,

Under the Laws of the State of California.

NO. SHARES.....10,000

Par Value.....$50 00

W. F. BRANDRETH.....President

J. M. BUFFINGTON.....Secretary and Treasurer

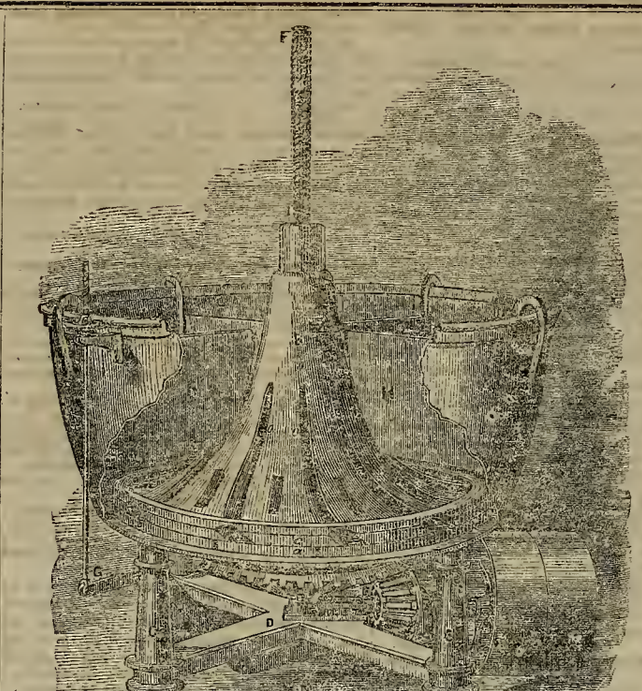
OFFICE—Room No. 10 Government House, corner of Sansome and Washington Sts., San Francisco.

The claims of this Company consists of SIX HUNDRED AND FORTY (640) ACRES, situated on Kellog Creek, in the Marsh Creek Mining District, Contra Costa county, Cal.

One thousand (1,000) shares of the contingent fund is offered at the low price of ONE ($1.00) DOLLAR per share, full paid, all the stock being unassessable. All who wish to purchase, or make any enquiry concerning the Company, will please call on the Secretary,

J. M. BUFFINGTON,

2v11 Corner of Sansome and Washington streets.



THE EXCELSIOR GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity, "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

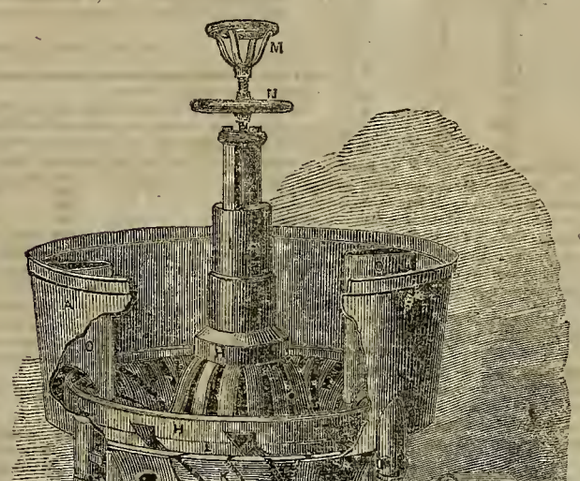
Union Iron Works and Golden State Iron Works.

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.



THE WHEELER & RANDALL Grinder and Amalgamator

In the engraving herewith exhibited, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Plates.

The attention of the Public is respectfully called to these facts:

1st. That the Mechanical work accomplished by differently formed grinding plates, having the same diameter, weight, hardness, and revolving at the same velocity, is as follows, to wit:

The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory-formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

2d. That as a whole, the Wheeler & Randall Grinder and Amalgamator is one of the most simple, compact, substantial, convenient and efficient pans in use.

☞ Patent applied for.

MANUFACTURED AT

GOLDEN STATE IRON WORKS.....San Francisco.
UNION IRON WORKS..... "
MINERS' FOUNDRY..... "
SAN FRANCISCO FOUNDRY..... "
PRESCOTT & SCHEIDEL.....Marysville.
OREGON IRON WORKS.....Portland, Oregon.

WHEELER & RANDALL, Inventors.

SAN FRANCISCO, JUNE 13, 1865.

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 16, 1865. 11v10-tf

SAN FRANCISCO CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at **TUBBS & CO.'S,**

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14v10

QUICKSILVER

FOR SALE BY

S. F. BUTTERWORTH

Northwest cor. Battery and California sts.

v9-19 SAN FRANCISCO.

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSITON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and fines, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street above First (opposite the Oriental Hotel), San Francisco.

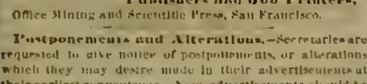
22v10

Agent Wanted.

A good Canvassing Agent can secure permanent and remunerative employment by calling at the office of the MINING AND SCIENTIFIC PRESS, 505 Clay street.

DEWEY & CO.,
Publishers and Job Printers,
Office Mining and Scientific Press, San Francisco.

Postponements and Alterations.—Secretaries are requested to give notice of postponements or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible



HATS, HATS.

The Largest Assortment
—OF—
HATS AND CAPS
—IS AT—
Meussdorffer's Hat Manufactory,
635 and 637 Commercial Street,
Between Montgomery and Kearny,
SAN FRANCISCO,
WHICH HE OFFERS FOR SALE
WHOLESALE AND RETAIL.

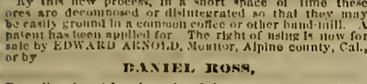
NEW DISCOVERY

FOR DESTRUCTIVELY AND DECOMPOSING
METALLIFEROUS ORES,
—SUCH AS—
Auriferous Sulphurets, Arsenites or Antimonial Telluric, Gold and Silver Ores.

By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by

DANIEL ROSS,
Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me.

EDWARD ARNOLD,
Inventor and Patentee.
Monitor, Alpine county, Cal.
W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11



TEETH

Extracting Without Pain.
Drs. Whitcomb & Dyer,
DENTISTS,
[Successors to W. H. Irwin.]
No. 205 Third Street, near Howard,
SAN FRANCISCO.
v9

A German Mining Engineer,

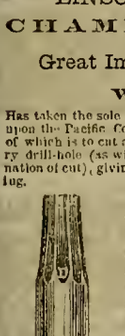
LATELY FROM THE EAST,
Desires a Place in a Mine, Assay Office, or Chemical Laboratory.
Address O. H., office of this paper. 4v11-1m

Machinery.

ATTENTION, MINERS!

LINSCOTT'S PATENT
CHAMBER DRILL.
Great Improving in Blasting.
W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.



D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ¼ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

HANSCOM'S CRUSHERS,

Made in sizes suitable for Breaking Quartz for Batteries; Rock for macadamizing or concrete; Copper Ore for sacking, sampling, or concentrating; also, for crushing Quartz for Arastras and Grinders. The small sizes make a most efficient Crusher for Prospectors, and are arranged to be run by Hand, Horse, Water or Steam Power. For further information address W. W. HANSCOM.
1 Golden State Iron Works, San Francisco.

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of metal effected in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th. Illustrated in the Mining and Scientific Press, April 9th, 1864.

HEPBURN & PETERSON.
nov5 3m*

NOTICE TO MINERS.

NEW QUARTZ MILL.

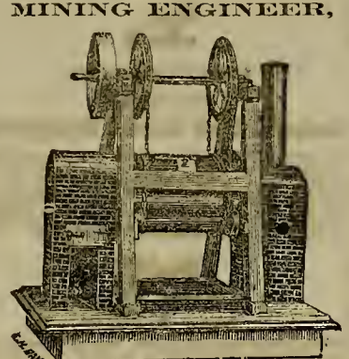
THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Crescentic Quartz Crusher; his Pulverizer, and his Improved Prothero Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. B. FAUCHERY, Engineer.
21v9

W. BRUCKNER,
MINING ENGINEER,



Begs leave to call the attention of the mining public to his apparatus for ROASTING SULPHURETS, one of which is now being exhibited at the Mechanics' Fair. Parties wishing to test their ores by this roasting process are requested to leave their orders at the MECHANICS' FAIR DAILY PRESS office. 7df

BLAKE'S
QUARTZ BREAKER

Is now extensively used for breaking hard masses of
Quartz or Ores
To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA,
WASHOE,
ENGLAND, FRANCE,
—AND—
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,
Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.
4v10

VARNEY'S
PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been or will be spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Settlers made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and settlers for themselves, at the

PACIFIC FOUNDRY,
1v1 San Francisco.

VALUABLE
PATENT RIGHT
FOR SALE.

The patent right for the United States of a valuable invention can be secured at a bargain by applying at this office. The article is one of general application throughout civilization.

DEWEY & CO., Publishers.

THE HAMMER QUARTZ MILL.

PATENT APPLIED FOR.]

This Machine is now complete and ready for sale. In constructing it, our aim has been to produce a light, cheap and economical Crusher—one adapted to mining on a small as well as on a large scale.

The elementary principle on which it operates is that of the stamp—the only one really reliable and economical.

But the stamp has many serious disadvantages, among which are its great weight and small velocity; the great power required to run it; difficulty in feeding properly; imperfect discharge, and the necessity of crushing wet, or the annoyance from dust in crushing dry.

All these difficulties are obviated in our machine, and the percussive blow of the stamp retained, with the further advantage of its being a drawing or grinding one.

We give to our hammers such absolute or relative weight and velocity as we choose—just such as to effect their purpose and no more—thus securing the qualities of the natural hammer blow.

The feed is self-adjusting and uniform, and as fast as the ore reaches the required degree of fineness (which depends upon the fineness of the screen or sieve used), it is instantly discharged, so that there is no packing of the ore under the hammers.

The mill crushes dry, with no more dust than that incident to feeding, which is trifling.

As the only support of the mortar is a single post set into the ground, the machine can be put in place at slight expense.

The size now being built weighs about 1,800 pounds complete; the heaviest piece not weighing over 275 pounds. It is driven by half a horse-power, and crushes from three to ten tons per day of twenty-four hours per day, according to the character of the rock and the fineness to which it is reduced.

PRICE,.....$800.

Larger ones will be furnished if desired.

We invite an inspection of the Mill now in operation adjoining the Foundry of DEVOE, DINSMORE & CO., on Fremont street, between Market and Mission, San Francisco.

Office, No. 11 Court Block, San Francisco, Cal.
21v10 RIX & LOGAN.

ATWOOD'S
Self-Regulating Windmill.

This Windmill is the most perfect self-regulator yet invented, and is capable of being adjusted to any desired speed. Manufactured at

222 Mission Street, North side, below Beale,
SAN FRANCISCO.

N. B.—We also manufacture DICKERSON'S SELF-REGULATING MILLS; also, Rotary and Stationary Mills of different styles and prices, varying from $50 to $500 each; also round and square Water Tanks made to order.

222 Mission street, below Beale. 5

HUNT'S
IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN
HORSE POWER
For Sawing Wood.

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,
No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

HUNT'S PATENT
Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,
1v10 28 Second street, San Francisco

Equal to the Best Overshot Wheel IN EXISTENCE.

POWER PLEDGED

LEFFEL'S
AMERICAN DOUBLE TURBINE.

The DOUBLE TURBINES, so long expected, have arrived at last, and orders can now be filled. We have a large supply of the different sizes, from 20 inches to 30¾. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

The above Wheel will be exhibited during the Fair of the Mechanics' Institute, where all may see it and hear its merits explained. This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 90 to 300 pounds will yield from 10 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to

LEFFEL & MYERS.
4v11-tf Care RICHARDS & MCCHOKEN, San Francisco.

TO QUARTZ MINERS.

Hinkle's Centrifugal Pulverizer and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUGAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steen, Nos. 37 & 39 Fremont street, between Market and Mission streets.

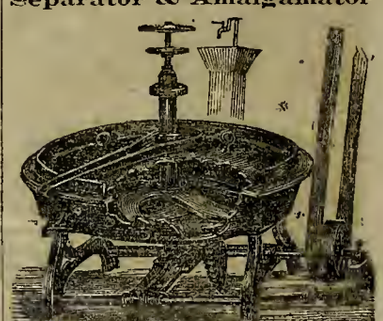
This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine, made entirely of iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

Mr. Hanson, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 60 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to

PHILIP HINKLE,
At the Novelty Iron Works, Nos. 37 & 39 Fremont street.
15-1m

BAUX & GUIOD'S
Separator & Amalgamator



Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine Scientific Knowledge with Practical Experience, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pans in use: Jeffersonian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crall's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Heugh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,
Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8-6df

McCOMB'S
CUMULATIVE POWER PRESS
AND
ARROW TIE.

E. C McCOMB, Agent.
No. 1 Government House, cor. Sansome and Washington sts.
23v10 3m

NOTICE.

The undersigned having purchased the EXCLUSIVE RIGHT in and for the State of California, for the

Manufacture and Sale of
WINHAM'S
PATENT HOSE COUPLING,

Hereby caution all parties against the manufacture or purchase of the above Hose Couplings, except through us, as any infringement will be prosecuted to the full extent the law.

PESCOTT & SCHEIDEL,
Marysville Foundry
March 31st, 1865. 18v10

MINING AND SCIENTIFIC PRESS
PATENT AGENCY.
For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 4th, 1861, and March 3d, 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 8, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Cavent is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against the subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues. If the application is rejected we make a thorough investigation to be made into the reasons presented by the Examiner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 yrs and 6 mos...	$10
On every application for a design, for seven years.....	15
On every application for a design, for fourteen years....	30
On every application for a patent, for seventeen years...	15
On every caveat.....	10
On issuing each original patent.....	20
On filing a disclaimer.....	10
On every application for a reissue.....	30
On every additional patent granted on a re-issue.....	30
On every application for an extension.....	50
On the grant of every extension.....	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C....	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, No. 505 Clay street, cor er of Sansome, San Francisco.

Away with Spectacles.

Old Eyes made new, without SPECTACLES, DOCTOR, or MEDICINE. Pamphlet mailed free on receipt of ten cents. Address E. B. FOOTE, M. D., No. 1130 Broadway, New York. 11v10-2m

M. DISNEY'S
Endless Chain Water Wheel

Gives the greatest power from the same amount of water of any wheel in use. Every pound of water used gives one pound power. It is cheap and easily constructed, and can be built anywhere, and may be so constructed as to give any amount of power according to the amount of water and the fall. It is now on exhibition at

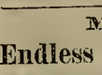
521 Market street, in this City.

All are Invited to call and see for themselves. We are ready to put in Wheels either on sluggish streams or under head. RIGHTS FOR SALE.

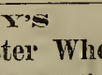
☞ This Wheel is peculiarly adapted to running streams, where parties cannot build dams so as to make use of the fall.

M. DISNEY, Inventor.

San Francisco, Sept. 6th, 1865. 11v10-4w



CALL STABLE.



N. GISHWILLER

Would respectfully inform the public that he has opened a large and well-arranged LIVERY STABLE,

On B street, Summit City, Cal.,

(two doors below the Lake House), where good Saddle and Buggy Horses can be had at all times. Our charges will be reasonable, and we hope, by prompt attention, to merit a share of the public patronage. 10v11-3m

Ten Able-Bodied Copper Miners
WANTED,
At the Bunker Hill Mine,

To work for wages (three dollars per day), or on contract.

10v11-tf RICHARD POWNING, Superintendent.

MITCHELL'S
COMBINED
FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with GALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Model on exhibition at foot of stairs in the Pavilion. Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.

San Francisco, Aug. 22d, 1865. 10v11-3m

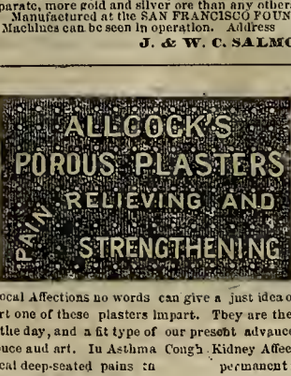
SALMON'S
PROPELLOR AMALGAMATOR
AND
Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

9v11 J. & W. C. SALMON.



In Local Affections no words can give a just idea of the comfort one of these plasters impart. They are the plaster of the day, and a fit type of our present advancement in science and art. In Asthma Cough Kidney Affections, and local deep-seated pains it is a permanent relief. TRY ONE, and be convinced.

PRINCIPAL OFFICE

T. ALLCOCK & CO.,
Brandreth's Building,
New York.

W. F. BRANDRETH,
OFFICE AT
Crane & Brigham's.
SAN FRANCISCO.

☞ FOR SALE BY ALL DRUGGISTS. ☜
9v25q

HELMBOLD'S
FLUID EXTRACT BUCHU

For Non-Retention or Incontinence of Urine, Inflammation or Ulceration of the Bladder or Kidneys, Diseases of the Prostrate Gland, Gravel, Brick Dust Deposits, Dropsical Swellings, Organic Weakness, Debility, Female Complaints, Etc.

H
HELMBOLD'S
FLUID EXTRACT BUCHU
AND
Improved Rose Wash

Will radically exterminate from the system Diseases arising from Habits of Dissipation, *at little expense, little or no change of diet, no inconvenience or exposure*; completely superseding those *nauseous and dangerous remedies, Copaiba and Mercury*, in curing these diseases.

E
USE HEMBOLD'S
FLUID EXTRACT BUCHU

In all Diseases of the Urinary Organs, whether existing in MALE OR FEMALE, *from whatever cause originating, and no matter of how long standing.* It is pleasant in its taste and odor IMMEDIATE in action, and more strengthening than any of the preparations of *Bark or Iron.*

Those suffering from *Broken Down or Delicate Constitutions, procure the Remedy at once.*

The reader must be aware that however slight may be the attack of the above diseases, it is certain to affect his *Bodily Health, Mental Powers and Happiness.* If no treatment is submitted to, Consumption or Insanity may ensue.

All the above diseases require the aid of a diuretic.

Hembold's Extract Buchu
IS THE GREAT DIURETIC.

L
HELMBOLD'S
HIGHLY CONCENTRATED
Compound Fluid Extract Sarsaparilla,

For purifying the Blood, removing all diseases arising from excess and imprudence in life, chronic constitutional diseases arising from an impure state of the blood, and the only reliable and effectual known remedy for the cure of Scrofula, Scrofula Head, Salt Rheum, Pains and Swelling of the Bones, Ulcerations of the Throat and Legs, Blotches, Pimples on the Face, Tetter, Erysipelas, and all scaly eruptions of the skin, and beautifying the COMPLEXION.

M
NOT A FEW

Of the worst disorders that afflict mankind arise from the corruption that accumulates in the Blood. Of all the discoveries that have been made to purge it out, none can equal in effect HELMBOLD'S CONCENTRATED EXTRACT OF SARSAPARILLA. It cleanses and renovates the Blood, instills the vigor of health into the system, and purges out the humors which make disease. It stimulates the healthy functions of the body, and expels the disorders that grow and rankle in the Blood. Such a remedy, that could be relied on, has long been sought for, and now, for the first time, the public have one on which they can depend. Our space here does not admit of certificates to show its effects, but the trial of a single bottle will show to the sick that it has virtues surpassing anything they have ever taken.

B

Two tablespoonsful of the Extract of Sarsaparilla, added to a pint of water, is equal to the Lisbon Diet Drink, and one bottle is equal to a gallon of the Syrup of Sarsaparilla, or the decoction as usually made.

The above Extracts are prepared on purely scientific principles—in *Vacuo*—and embody the full strength of the ingredients entering into their composition. A ready and conclusive test will be a comparison of their properties with those set forth in the U. S. Dispensatory.

O
HOW TO USE THE REMEDIES.

In Diseases of the Blood, Humors on the Face, or any and every part of the body, use Extract of Sarsaparilla, applying to Pimples and all external Humors or Eruptions the Improved Rose Wash.

Use the Extract Buchu for all diseases requiring the aid of a diuretic, except those of the Urinary Organs, such as Gonorrhœa and Gleet; in these use the Extract Buchu, and inject with the Improved Rose Wash.

L

☞ THESE EXTRACTS HAVE BEEN ADMITTED TO USE IN THE UNITED STATES ARMY, and also are in very general use in all the STATE HOSPITALS AND PUBLIC INSTITUTIONS throughout the land, as well as in private practice, and are considered as invaluable remedies.

MEDICINE DELIVERED TO ANY ADDRESS.

Direct letters to—

HEMBOLD'S DRUG AND CHEMICAL WAREHOUSE,
594 Broadway, New York, next Metropolitan Hotel,

—OR TO—

HEMBOLD'S MEDICAL DEPOT,
104 South Tenth street, Assembly Buildings, Philadelphia.

D
Describe Symptoms in all Communications.

SOLD BY ALL DRUGGISTS EVERYWHERE.

Beware of Counterfeits!

ASK FOR HELMBOLD'S.

TAKE NO OTHER.

HOSTETTER, SMITH & DEAN,

Sole Agents for the Pacific Coast,
17v10 Nos. 401 and 403 Battery street, San Francisco.

BANCROFT'S CATALOGUE OF
SCIENTIFIC BOOKS.
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Towler's Photographic Almanac, 1865	50
Towler's Porcelain Picture—How to Make It	1 00
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Universal Text Book of Photography	50
Wall's Manual of Photographic Coloring	4 00

(TO BE CONTINUED)

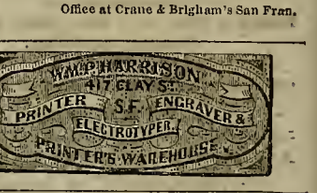
H. H. BANCROFT & CO.,
Booksellers and Stationers,
10v11 San Francisco, Cal.

Brandreth's Vegetable Pills.—This medicine, of enduring efficacy, is justly prized as a corrector of all disorders of the stomach and bowels, the common symptoms of which are costiveness, spasms, loss of appetite, sick headache, giddiness, sense of bloating after meals, dizziness of the eyes, drowsiness, and cramping in the stomach and and bowels. These symptoms being suffered to remain; a torpid state of the liver supervenes, and all the horrors of dyspepsia are experienced. Every function of the frame is to a certain extent prostrated; but a little perseverance in the use of BRANDRETH'S PILLS will ever restore the system from this state of misery. Two or three doses will convince the afflicted of their salutary influence. The stomach will speedily regain its strength, a healthy action of the liver will soon take place, and instead of listlessness, heat, pain, and jaundiced appearance, activity, strength and renewed health, will be the blessed result. Brandreth's Pills are sold at 25 cents per box, enveloped in full directions. Purchase none unless my private Government Stamp is on the box. See upon it "B. Brandreth" in white letters.

Principal office, Brandreth Building, New York.

W. F. BRANDRETH.

10v2tf Office at Crane & Brigham's San Fran.



IN THE PROBATE COURT, CITY AND COUNTY OF San Francisco, California. In the matter of the Estate of J. W. WILEY alias J. H. CHURCHILL, deceased. Notice to Creditors—All persons are hereby notified, who have claims against the said deceased, or this estate, to present the same, with necessary vouchers, to the undersigned, at No. 601 Merchant street, San Francisco, within four months after the first publication of this notice (a summary administration of this estate having been ordered), else the same will be forever barred.

J. A. WOODSON,
Attorney for P. WARNER, Admr of said Estate,
604 Merchant street.
San Francisco Aug. 26, 1866. 8v11-4w

COUNTY COURT, CITY AND COUNTY OF SAN FRANcisco.—In the matter of the application of the Palmyra Mill and Mining Company for an order of dissolution.

Notice is hereby given to all persons interested that the Palmyra Mill and Mining Company have this day filed their petition in the County Clerk's office of said City and County, praying for an order of dissolution, and in pursuance of an order of the Hon. Samuel Cowles, this day made, all persons interested are hereby notified to be and appear before the Hon. Samuel Cowles, County Judge of said city and county, at his chambers, in the City Hall, on MONDAY, the 2d day of October, 1865, at 9 o'clock, A. M., of that day, to show cause, if any they have, why the prayers of said petitioners should not be granted.

Witness my hand and seal of said Court, this 30th day of August, 1865.

{L. S.} WM. LOEWY, Clerk,
By WM. HARNEY, Dep. Clerk.

TRY
WARD'S
Ward's Perfect Fitting Shirts.

These Shirts are too well known to need any comment, both for perfect fit and quality. A large supply always on hand. Also, the largest stock of Gents' Fine Furnishing Goods on the Pacific Coast. Try one of his Shirts, and you will never wear any others.

S. W. H. WARD & SON,
No. 323 Montgomery Street,
(Odd Fellows' Hall)
New York House, 387 Broadway. 19v10

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

Mining and Scientific Press.

A Journal of Useful Arts, Science, and Mining and Mechanical Progress.

DEWEY & CO., PUBLISHERS, And Patent Solicitors.

SAN FRANCISCO, SATURDAY, SEPTEMBER 16, 1865.

VOLUME XI. Number 11.

OUR NEW YORK AGENCY.

Mr. Geo. M. Newton is our authorized agent in New York City, and will receive advertisements and subscriptions for the Mining and Scientific Press at regular rates. Sample copies of our weekly and monthly issues can be procured by calling upon him, at the office of the "Stockholder," No. 72 William street.

OUR PHILADELPHIA AGENCY,

Parties wishing to subscribe or advertise in the Mining and Scientific Press can be accommodated by calling upon our Agent, Mr. Turner Hamilton, at the Assembly Building, 106 Tenth street, Philadelphia, Pa., where sample copies of our publications can always be found.

Our Paper by Express.—Owing to the fact of Wells Fargo & Co requiring publishers to pay 2½ cents per copy in advance on papers sent to subscribers in the interior, we are obliged to make our subscription terms by express $6 50 per annum.

THE IRON AND FOUNDRY INTERESTS OF SAN FRANCISCO.

NUMBER SIX—GOLDEN STATE FOUNDRY.

One of the earliest of those who first began to foresee the future growth of the iron interests of San Francisco, was the founder of the Golden State Foundry, which institution is now conducted under the firm of Palmer, Knox & Co. Mr. Knox is the inventor and patentee of the celebrated Knox Amalgamating Pan, one of the earliest of these useful improvements introduced into the business of quartz mining, and the first of a class of machinery which has worked an entire and most important revolution in the business of gold and silver mining. These pans, in all their varied forms, are as yet peculiar to California; but must soon find their way into quartz mills and amalgamating rooms in all parts of the world.

The Golden State Foundry, at the present time, is largely engaged in preparing the iron work for the bridges for that portion of the Western Pacific Railroad which is now being graded between San Jose and Stockton. This iron work consists of tie rods, bolts, braces, angle and latteral blocks, etc., which enter into the construction of trestle-work bridges. In answering the demands for this work, this foundry has completely exhausted the market of certain sizes of wrought iron—both the stock now on hand, and all that which is to arrive for several months to come. These sizes are all the round iron embraced between that of five-eighths and two and one quarter inches in diameter. Some idea of the extent of this work may be inferred from the fact that one item in this construction embraces a section of the road five miles long, every rod of which has to be supported on trestle work!

Among the general work which has been finished up at this foundry, we may notice a 25-horse power engine and 10-stamp mill, with furnaces, barrels, etc., complete, for the Pioneer Mining Company, at Reese River; also an 8-stamp mill, with irons for a water wheel for a mill now being construeted near Placerville, a 15-horse power hoisting engine for a company in Volcano, and a lot of Wheeler & Randall pans and Knox's amalgamators. They are also completing the iron work for four sets of castings for Hogan's patent process for desulphurizing ores by the aid of super-heated steam—the same process which is now being worked across the bay in Oakland. Two sets of these castings go to Angel's Camp, in Tuolumne County, two to Drytown, Amador County, and two to Volcano, Amador. In addition to the above they are constantly engaged on a large amount of miscellaneous work, jobbing, repairing, etc.

The daily consumption of pig iron at this foundry is about four tons, and fifteen tons monthly of wrought iron. About forty men are kept constantly employed. The pattern room and general machinery of Golden State Foundry are as complete, although they may not be as extensive, as those of some of their more pretentious neighbors. This establishment forms an important feature in the great iron interest of this city, which has grown up so rapidly and from such small beginnings to a magnitude most astonishing to witness as the result of but little over a single decade of time.

At this foundry is also manufactured Hanscom's Crusher. Of the various jaw crushers, and rock breakers, on exhibition last year in the Pavilion, we find only this one returned for operation this year. It received the first premium in 1864. No simpler, cheaper, or more reliable crusher for breaking rock and reducing quartz, has yet, to our knowledge, been invented and gone through the test that this machine has stood during the past year. Mr. Henry S. Smith, foreman of this establishment, holds the patent right of this coast for the manufacture and sale of Dunbar's Patent Self-Adjusting Piston Packing, which is becoming exceedingly popular wherever introduced. Orders for this packing are fast increasing. The Tyler Water Wheel, one of the most reliable yet invented, is manufactured and sold at the Golden State Works.

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In our previous report of some of the foundries in this series of articles, we omitted to mention some features which we give in the following appended remarks:

The large 22-inch cylinder engine just completed at the Vulcan Iron Works for the Yellow Jacket Mining Company, is fitted with the Meyer's cut-off valve motion, the only perfect cut-off yet applied to slide valve engines. It is perfectly self-adjusting, and can be put in or out of gear at a moment's notice. A cut off of this description can be seen in operation in the pumping engines of the San Francisco Water Works Co., where it has been running for some time with the best results, as regards economy and regularity. For the pumps mentioned as manufactured for the Chollar and Potosi mine, the Vulcan Iron Works Company have cast the largest spur wheel yet cast in the State, viz: 12 feet diameter, 14 inch face, 4 inch pitch, and weighing 12,500 pounds. The mould for this wheel was got up without a pattern, and with core-boxes only. The wheel, when cast, came out of the sand without a blemish.

Amongst the enterprises of this company, which we omitted to mention in our previous article, is the Howell Improved Rotary Crusher, which is yet destined to make its mark amongst quartz crushing machinery. The proprietors of this establishment have been convinced of the correctness of the principles governing the crushing power of this machine, and have spent time and money in bringing it to perfection. They now have one running at their works, pulverizing anything that is brought to it; and the quality of the work done is as near perfection as we can hope to attain, viz: seven eighths of the material will go through a screen of 10,000 to the inch. At present it is crushing oxyd of manganese, a material as much harder than quartz, as quartz is harder than marble. In connection with this mill, they have got up an engine, with a double piston and perfectly balanced, whereby a high velocity of piston is attained without any of that dangerous and racking motion that single piston engines have when run at a high speed. One of this style of engine has been running one line of shafting in the present Fair, and has been highly spoken of by all experts who have seen it. It is very light, and requires hardly any foundation—2,500 pounds engine being able to run 40-horse power, if run fast, and 28-horse power, if run same speed as the common engine. We have been lengthy in our notice of this, as it is just the thing needed for mountain machinery, in many cases saving nearly its own price in the item of freight.

Going Home.—We regret to announce that Dr. C. T. Jackson finds it necessary to take his departure homeward on the steamer of Monday next. The Doctor has spent several months in our midst, examining into the mineral resources of the Pacific coast, and making himself generally acquainted with the topography and varied commercial and agricultural interests of California. It gives us pleasure to state that he has formed a very favorable opinion of our resources, and that he will carry with him to the East, and also to Europe, where he will shortly visit, a high estimate of the future growth and importance of the Golden State. A large number of the friends of education met with the teachers and pupils in the main hall of the Lincoln school house, on Friday afternoon last, to listen to a lecture on geology, which be delivered on that occasion. The lecture was replete with information, and was presented in an easy and familiar manner most eminently calculated to interest and instruct the mixed audience before which he was called to speak. It is to be regretted that the Doctor cannot make it consistent with his other duties to prolong his stay among us. No scientific man has ever visited California, where observations will prove of so much value to us abroad, as will those of Dr. Jackson. His extensive experience and observation in the fields of science and among men of science in all parts of the world, have rendered his name and fame cosmopolitan, and will give weight to his opinion, wherever it may find expression. Californians may justly esteem it a fortunate circumstance that he has found his way hither; and we feel most fully assured that all with whom he has met during his stay here, will unite with us in wishing him a safe return to his home and friends, and many years of future happiness and prosperity.

Rush to Idaho and Montana.—The rush to Idaho and Montana continues unabated. A large part of the emigration goes up the Missouri river, which has been unusually high during the Summer. The land travel by this route is much less than across the plains.

Personal.—We have received a call from Messrs. Boult and Stetefeldt, who recently arrived in this city from New York, *en route* for Austin, Nevada, where they propose to establish themselves as assayers and mining engineers. In addition to the ordinary work of an assay office, they will also establish a chemical and analytical department, a branch of business in connection with mining which has heretofore been quite too much neglected on the Pacific coast. Simple assays of ores for one or two of their mineral constituents are very short of all that is needed. The intelligent amalgamator, before going to work upon his ores, should know each constituent part thereof—in no other way can he work understandingly. Analytical assays, only, should be the foundation for work in the amalgamating room; and especially is this required in operating upon the silver ores of Nevada, which comprise among their constituents almost everything in the whole range of metallurgical nomenclature. Our Reese River friends will doubtless find these gentlemen fully up to the proper standard in their intricate profession. Of this fact the undoubted references which they give from both European and American professors, will scarcely admit of a doubt. We would call attention to their card in another column.

Heavy Railroad Engineering.—The line of railroad projected from Vera Cruz to the city of Mexico contemplates some very heavy railroad engineering. The length of the road will be 280 miles. The summit will exact an elevation of 7,600 feet above the level of the sea. Before reaching that point, the grade, in forming across a valley descends 800 feet and, of course, has to ascend the same number of feet on the opposite side. The medium grade is 211 feet to the mile. The descent, (for it is after passing the summit going westward) is continuous for eight miles, making an elevation, on returning, in that distance of 1,688 feet! On the first two miles of this grade there are to be three stone viaducts, averaging 400 feet in length each, and 100 feet high; also, three tunnels about 200 feet each—both viaducts and tunnels to be on a grade of 211 feet per mile, and curvature of 400 feet radius. The line continues with the same grade and numerous curves of 400 feet radius, until it reaches the valley of the Great Mexican Highway, a distance of 18 miles, and total descent of 3,498 feet. From this point it has a gradual inclination until it reaches the Chickeevete Mountains, where it takes a shape almost questionable as to its feasibility. A valley has to be crossed by a viaduct 1,000 feet long and 300 feet high; also numerous tunnels, one of which is 1,600 feet long.

Westward, Ho!—Some idea of the immense immigration across the Plains the present year may be had by knowing that the records kept at Nebraska City of the number of teams that crossed the Platte at that point previous to the 1st of August, show that upwards of 13,500 vehicles have passed over, averaging five animals to a team; and at least as many human beings as animals have crossed. And still they come.

Mechanics' Fair Awards.—The Executive Committee were in session last evening reviewing the reports of the examining committees and completing the list of premiums, which we expect to be able to announce next week.

Descriptive Catalogue

—OF THE—

INDUSTRIAL EXHIBITION

Of the Mechanics' Institute, 1865.

Additional Entries.

[The following list comprises all the entries made at the Pavilion subsequent to the publication of our Catalogue in pamphlet form, up to 12 o'clock, M., September 8th.]

606 Robert Anderson, San Francisco: one Model of a man of war.

607 Macdonald Bros., San Francisco: superior sample of Back Boards for looking glasses, etc.

608 J. W. Whitaker, San Francisco: one Linen Handkerchief one hundred years old.

609 Pacific Anatomical Museum, San Francisco: one case of Eggs, showing different stages of incubation; one anatomical specimen of a Dissected Arm; one anatomical specimen of a Child.

610 J. Wise, San Francisco: three Oil Paintings; two Water Color Paintings.

611 Mrs. S. Mish, San Francisco: one case of Millinery Goods.

612 Miss Martha Comfort, San Francisco: one bouquet of Skeleton Leaves, in a California-made frame.

613 Larkins & Co., San Francisco: two Open Buggies; one Top Buggy.

614 Mr. S. Hill, San Francisco: one Sofa Cushion.

615 Rowland, Walker & Co., San Francisco: one box of White Sand, from David Jacks, Monterey.

616 Thomas Maher, South Watsonville, Santa Cruz county: one Convertible Gang Plow.

617 Wm. Hollis, San Francisco: one Stove-pipe Damper.

618 J. M. Moore, San Francisco: one painting of Autumn Leaves.

619 Wm. H. Keith & Co., San Francisco: one glass jar of Crude Petroleum, from Mattole.

620 Chas. Castles, San Francisco: one Oil Painting.

630 J. A. Bauer, San Francisco: three India Ink Drawings—Schiller, the Mokelumne river, and Faust and Marguerita.

631 George K. Porter, Santa Cruz: three bundles of Calf Skins.

632 Mrs. Flora S. Godfrey, San Francisco: one Antique Chair; one Fancy Table.

633 Wheeler Martin, San Francisco: three Paintings, in frames.

634 Miss Carrie Baldwin, San Francisco: one embroidered Sofa Cushion.

635 Moses Chinmark, San Francisco: one specimen Petrified Wood; one do. Blank Cartridge; one skin of an Albatross' Foot; one Chinese Pillow; one Fly Gun.

636 Hepburn & Peterson, San Francisco: one Amalgamating Pan.

637 T. H. Selby & Co., San Francisco: eight coils, three cones, three reels, and three pieces of Lead Pipe, and one package of Shot Lead, manufactured at their lead factory in this city.

639 Mrs. R. Velasco, San Francisco: three embroidered Handkerchiefs, and designed to imitate engravings.

640 Goodwin & Co., San Francisco: one Turkish Chair; one Side-board.

641 Swain & Brown, San Francisco, one case of Ornamental Cake and Confectionery.

642 Swain & Brown, San Francisco: one Marino Tree, from the Marquesas Islands; one bunch of Coral.

643 J. M. Aiken, Sonora: four pieces of Gold-bearing Quartz.

644 Adolph Muller, San Francisco: Set of Furs.

646 L. W. North, San Francisco: one Patent Paper Reel, for a telegraph machine—a California invention.

647 John Dougherty, San Francisco: one Soap Stone Sawmill; one Rock Crusher and Mill; one Pulverizing Mill.

648 O. W. Easton, San Francisco: three strips of Brown's Metallic Weather Strips.

649 Smith & Hauscom, San Francisco: one Tyler Water Wheel.

650 J. A. Bauer, San Francisco: six bottles of California Champagne.

651 Mrs. Bendar, San Francisco: one Washing Machine.

653 W. A. Howard, San Francisco: one Pebble Table.

654 H. Pierce, San Francisco: one Quartz Crusher.

655 A. Badlam, San Francisco: one Rat Trap.

656 Miss S. V. Greene, San Francisco: specimen of Wax Flowers.

658 George Hoyle, San Francisco: one Marble Frame; one Ornament.

659 Jones & McCormick, San Francisco: one Operating Model of Screw Paddle Wheel.

660 Dr. Lanszweert, San Francisco: samples of Photographic Granulated and Crystalized Nitrate of Silver.

661 Dr. Lanszweert, San Francisco: samples of Copper Ore, Bullion, and Sulphate of Copper, from Peavine Valley, Nevada.

662 Myers & Ritchmeyer, Drytown, Amador county: one block of Marble.

663 W. B. Frisbie & Co., San Francisco: one Canterberg & Vanpel Piano.

664 James M. Smith, San Francisco: two Coffee Roasting Machines.

665 Capt. J. M. Aiken, Sonora: one Cane and Case.

666 McPherson & Wetherbee, San Francisco: two redwood Boards 7 ft. 5 in. wide and 12 ft. long.

667 Mrs. Blake, San Francisco: seven pieces of Embroidery.

668 Mrs. Judge Pratt, San Francisco: one Feather Fan, in frame.

669 Curtis & Allen, San Francisco: two samples of Paper Flour Bags.

670 Jas. Irwin, San Francisco: one Liquor Case.

671 Dellwig & Bros., San Francisco: two Ancient Moulds, made in 1750 and 1781, to be used for candies or blanc mange, etc.

672 J. Pierce, San Francisco: set of Parlor Furniture, etc.

673 Jay Wheelock, San Francisco: one Animal Rat Trap, of a new construction, so contrived as that the animal in being caught is made to set the trap for the next comer.

674 Greenhood & Newbauer, San Francisco: mammoth sample of Coal from the Eureka Coal Co's mine, Mt. Diablo. This block of coal weighs 5,225 lbs.

An enterprising miller in Fredericksburg has been employing the country people in Spottsylvania to bring in the bones of horses and cattle from the battle-fields and swamps in that region. The large quantity of this material in that section of northern Virginia will render the business profitable.

ART GALLERY CATALOGUE

—OF THE—

Fifth Industrial Exhibition of the Mechanics' Institute.

—Annie J. Columbit, aged 7 years:
1 Crochet Tidy.
2 Two Lamp Mats.

—Henry Pfaff:
3 Worsted Fire Screen.
4 Needle-worked Alphabet.
5 Crochet Table Cover, "Fruit."
6 Crochet Table Cover, "Toilet."

7 Mrs. L. Bock: One Rug.

8 C. L. Houghton: Crayon Drawing, "Cliffs of the Tornidos."

9 Frank Grunner, aged 13 years: Architectural Drawing.

10 Charles Villedieu: Model of Brig.

11 Miss Rose Lake: Crochet Bed Spread.

—Mrs. A. C. Bissell:
12 Large Worsted Lamp Mat.
13 Small Worsted Lamp Mat.
14 Small Worsted Lamp Mat.

—S. C. Bugbee & Son, Architectural Drawings:
15 Design of Interior of Union Hall.
16 Exterior of Union Hall.
17 Inauguration of Union Hall.
18 North View, Residence of Ed. Learned.
19 Southeast View, Residence of Ed. Learned.
02 Water-color View, Residence on Jamaica Plains.
21 Residence of Mr. Jordan, Jamaica Plains.
22 Out All Night, And No Key.
2 Premium Design of Hosseross Monument.

—Oscar Kaltschmidt, Oil Paintings:
24 Fruit Piece.
25 Columbus in Chains.
26 Last Scene in King Lear.
27 Titian's Daughter.
28 Portrait of a Lady.
29 Portrait of a Little Girl.
30 Drawing from Card Picture, India ink.

31 Mrs. Anias Leroud. Show-case of Laces.

32 33 34 Miss G. C. White: Fruit Drawings.

—M. K. Laudonslager, Pen Drawings:
35 Ancient Drawing.
36 Equestrian Picture.
37 Ornamental Printing.

—E. P. Heald:
38 Declaration of Independence.
39 Specimen of Record and Ladies' Writing.
40 Large specimen of Bold and Commercial Writing.
41 Specimen of Book-keeping.
42 Specimen of Mercantile Writing.

—Mrs. Atkinson:
43 Leather-work Frame, with Diploma.
44 Leather-work Frame, picture, "Mimic."
45 Leather-work Frame, picture, "Helene."

—James A. Kerr:
46 Riding Out a Gale, water colors.
47 Scene in the West of England.

48 Mrs. J. J. Gardiner: Moss Landscape, in Cornelian stone frame.

49 Miss Ida Louise Peck: Bouquet in Chenille work.

50 John Alsop: Self-opening Parasol.

51 Mrs. Adelaide Handy: Knit Bed Quilt.

52 Mrs. H. C. Wilkins: Worsted Lamp Mat.

—Mrs. M. G. Gillitte:
53 Two widths Silk Embroidery.
54 Embroidered Pin Cushions.

55 Miss Louise Zeller: Crochet Tidy.

—B. C. Trumbull:
56 Sermon on the Mount, executed with a pen.
57 Head of our Savior, executed with a pen.
58 Portrait, Queen Victoria, executed with a pen.
59 Victor Emanuel and Garibaldi, executed with a pen.
60 Sepia Sketch of Howard street, San Francisco.
61 Card, with description.

63 Lizzie Winterburn, San Jose: Signing of Declaration of Independence, in pink and satin.

64 Charles H. Fischer: Model of Swiss Cottage.

—Mrs. I. J. Howard, Pencil Drawings:
65 The "Look Out."
66 A Flower Piece.

67 Mrs. S. D. Gilmore: Worsted Buggy Robe.

68 Miss Mary A. Gibbons: Pattern for Chenille Slippers.

69 Mrs. Col. James White: Velvet Devotion Cushion.

70 Dr. Calvert: Case manufactured Teeth.

71 Samuel Brown: Model of Steamer Kearsarge.

—Miss O'Toole:
72 Our Universe, pencil drawing.
73 The Planetary System, pencil drawing.

—Mrs. W. H. Davenport:
74 Crochet Worsted Tidy.
75 Crochet Cotton Tidy.
76 Crochet Cotton Tidy.

—Mrs. R. C. Alden:
77 Knit Scarf.
78 Crochet Opera Cloak.
79 Braided Child's Dress.
80 Braided Child's Dress.
81 Braided Child's Dress.
82 Crochet Worsted Cape.
83 Crochet Worsted Cape.
84 Crochet Worsted Jacket.
85 Crochet Worsted Jacket.
86 Braided Apron.
87 Pair Baby's Shoes.

88 Mrs. Capt. Henry Butler: One Victorine and Cuffs, made of turkey's feathers.

89 Mrs. A. M. Harding: One Knit and Crochet Bed Quilt

—S. Miller: Specimens of Pen Drawing.
90 The Indian Queen.
91 The Rose.
92 The Eagle and Lion.
93 Position of the Hand and Pen.
94 The Arabian Horse.
95 The Eagle.

96 Miss M. Barrow: Rustic Frame and Photograph.

—Mrs. Samuel Williams:
97 Sofa Pillow, device, American flag.
98 Ottoman Cover, worsted work.
99 Chair Bottom, worsted work.
100 Chair Back, worsted work.

101 J. Wm. Parker: Picture of Bolt-Cutting Machine.

—Mrs. S. Von Ronn:
102 Crochet Bed Quilo.
103 Knit Tidy.
104 Crochet Tidy.

105 C. Brower: Pencil Portrait of Abraham Lincoln.

—Miss E. McKie: Oil Paintings.
106 Shipwreck.
107 Sunset Scene.

—W. A. White: Specimens of Pen Drawing.
108 Position of the Hand and Pen.
109 Ornamental Writing.
110 Portrait of W. H. Tripp.

—H. C. Macy: Architectural Drawings.
111 Design for Public House.
112 Toland Medical College.
113 Toland Medical College, photograph.
114 Mr. Huff and Dr. Baldwin's Residence.

115 Dyer, Badger & Rokohl: Piano Forte and Cover.

116 Mrs. Harlow S. Love: Embroidered Caps.

117 Mrs. Haley: Embroidered Worsted Picture in Frame.

—Mrs. M. Doan, San Francisco:
118 Scene on Loch-Lomond, oil painting.
119 Scene on the Cordilleras, oil painting.
120 Autumnal Scene, oil painting.
121 Castle Scene, oil painting.
122 Sofa Pillow.

123 Dr. M. L. Libbey: One case Anatomical Specimens.

124 Mrs. E. M. Cottrell: One hand-made Carpet, worsted work.

—Miss S. J. Casebolt:
125 Crochet Tidy.
126 Crochet Tidy.
127 Crochet Tidy.

128 Mrs. W. O. Andrews: Rug made of Rags.

129 Mrs. E. Dennery: One case Tattin.

—Master S. C. Higgins, aged 16 years.
130 Locomotive "San Mateo," in water colors.
131 Locomotive "Tiger," in water colors.
132 Locomotive "President," in water colors.

133 Mrs. Frank Eastman: Sea Weed Bouquet.

134 Miss M. A. Norton: Oil painting; scene, Lake Skeneatelar.

135 Dr. J. P. Crowell: One case Dental Coods.

136 Francis Guth; One case Wood Carving, done with penknife.

137 James A. Kerr: Water-color drawing, San Pablo, near Oakland.

138 F. S. Butler: Specimen of Penmanship.

139 Mrs. H. C. Wilkin; Toilet Spread, stitched by hand.

140 A. Dreyfoos: Glass case Ivory Chessmen.

141 L. S. Ely: Saddle Cloth, made in Mexico.

142 S. C. Bugbee & Son: Oil painting, Fruit Piece.

—E. G. Scott:
143 Pencil drawing, Robert Burns.
144 Pencil drawing, Venus.

145 Jones, Wool & Sutherland: Looking Glass.

146 Mrs. Wm. G. Barrett: one pair Embroidered Suspenders.

—Snow & Co., Pictures in Frames:
147 Wedding Eve.
148 The Derby Day.
149 Immortality
150 Faith.
151 The Mountebank.
152 Sunlight and Shadow.
153 Storm in the Highlands.
154 Post Pallanza.
155 West Pallanza.
156 Carved Pioneer Frame.
157 Paul and Virginia.
158 Black Brunswicker.
159 Three Gold Ovals.
160 The Gamekeeper's House.
161 Dolyden Bridge.
162 Sportsmen.
163 The Rabbit Fanciers.
164 Cows in Meadow.
165 Three Gold Ovals.
166 Inlaid Sign.
167 Three Gold Ovals.

—Addis & Koch:
168 India Ink, Rev. Wyatt.
169 Colored Photograph, Miss Turner.
170 Large Ivorytype, Mrs. Whitney.
171 Colored Photograph, three children, Bonisell
172 Large Ivorytype, Gen. Ochoa.
173 Colored Photograph, Wm. Lyon.
174 India Ink, Judge Field.
175 Plain Photograph, Mrs. Chambers
176 Plain Photograph, Capt. Eldridge.
177 Plain Photograph, a lady.
178 Ivorytype, Miss Little.
179 Ivorytype, Miss Coates.
180 Ivorytypes, six in one frame.
181 Ivorytype, half plate.
182 Three Frames, cartes de visites.
183 Ivorytype, Mr. Raymond.
184 Ivorytype, Mr. Smith.
185 Ivorytype, Capt. Ray.
186 Ivorytype, half plate.
187 Plain Photograph, Low.
188 Colored Photograph, Miss Malloch.
189 Colored Photograph, Hubbard.
190 Colored Photograph, Mrs. Chenery.
191 Colored Photograph, R. Chenery.
192 Colored Photograph, Master Morgan.
193 Plain Photograph, Mrs. Olmstead.
194 Plain Photograph, Capt. Bradbury.
195 Plain Photograph, Miss Hawkins.
196 Colored Photograph, H. A. Snyder.
197 Colored Photograph, little girl.
198 Colored Photograph, Mrs. A. A. Snyder.
199 Plain Photograph, Capt. Lapidgo.
200 Plain Photograph, Judge Field.
201 Plain Photograph, Mr. Grey.

202 George Pfaff: three Flutes; two Picilos, in case.

203 Samuel Kellett: Ornamental Plastering.

204 Mrs. Judge Pratt: Wreath of Pressed Flowers.

205 Maurice Berg: Opera and Masquerade Armor.

206 Mrs. Heppie May: Crochet Tidy.

207 Mrs. Hurlburt: Baby Blanket.

—H. C. Macy, Oakland, Architectural Drawings:
208 A. C. Deitz's Residence.
209 Magnifying Glass.

210 Dr. H. H. Thrall: Case Dental Work.

—Mrs. G. Casebolt:
211 One Embroidered Night Dress.
212 One Embroidered Night Dress.
213 One Embroidered Night Dress.

—George Cofran:
214 Oil Painting, California Scenery.
215 Oil Painting, California Scenery.

216 L. Sealy: Oil Painting, the Marriage Gift.

—R. Winter, Colored Photographs:
217 Miss Minnie, in Water Colors.
218 Negro and Boy, Havana scene, Ivorytype.
219 Miss Cornelia Higgins, water colors.
220 Mr. Delan, Jr., water colors.
221 The Worrell Sisters, water colors.
222 Miss F. Brown, water colors.
223 C. W. Dam.
224 Miss Howe, water colors.
225 Killpatrick, of Philadelphia, water colors.
226 Squarza, water colors.
227 Miss Dora Shew, miniature style.
228 Miss Emma Winter, miniature style.
229 Miss Clemens, in oil.
230 Miss Sophie Edwin, water colors.
231 C. Winter, in oil.
232 Master R. Winter, water colors.
233 Pierce Elonart, water colors.
234 Wm. Winter, water colors.
235 Miss Walters, in oil.
236 Miss Holahan, water colors.

—C. Morrell:
237 Banjo, California make.
238 Banjo, California make.

—Union College, Water Colored Pictures:
239 Connemara.
240 Portrait of a Lady.
241 English Farm Scene.
242 Portrait of a Lady.
243 Melrose Abbey.
244 Study of Landscape.
245 Sea View near San Francisco.
246 Entrance to Golden Gate.
247 Italian Scene.
248 Study of Landscape.
249 Study of Figure.

250 Knowles & Clark: of Case Dental Specimens.

—Currier & Winter, Pictures and Frames:
251 Childhood.
252 Youth.
253 Manhood.
254 Old Age.
255 Ville Famphile.
256 Ville de Este.
257 L. Vesuve rue de Castellemare.
258 Am Vierwaldstatter See.
259 Happy as a Queen.
260 The Coquette.
261 Fairy Tales.
262 The Gourmandiser.
263 Overtasked.
264 Ull's Water (Cromo Lithograph).
265 Wetterhorn (Cromo Lithograph).
266 Teynault in the Highlands.
267 Ramsgate.
268 Brighton.
269 Grandfather's Pipe.
270 Blowing Bubbles.
271 Wreath of Sea Weed and Shells.
272 The Challenge.
273 The Sanctuary.
274 Samples of Carte de Visite Frames.

275 276 277 Jacob Zech: three Pianos.

278 L. R. Meyer & Co.: Marble Statuary, child in prayer.

279 Mrs. M. Miller, aged 65 years: Patch Quilt.

280 S. C. Higgins: one American Flag.

—Miss Emma Bayer, age 15 years:
281 Pencil Drawing, Group of Dogs.
282 Pencil Drawing, Hunting Scene.

—Mrs. M. D. Willis:
283 Fancy Crochet Sofa Pillow.
284 Fancy Worked Quilt.

285 Henry Truman: Drawing of Birds and Insects, in frame.

—Bayley & Cramer, Photographs:
286 Col. A. J. Jackson.
287 Mr. Bowman.
288 Plain Photograph.
289 Frank Mayo.
290 Miss Kent.
291 Mr. Booth.
292 Col. Stevenson.
293 Copy from Daguerrotype.
294 Miss Earle.
295 Gen. U. S. Grant.
296 Abraham Lincoln.
297 to 302 Plain Photographs.
303 Water Colored Photograph.
304 Colored Carte de Visite.
305 to 314 Opalotypes, new style miniatures.
315 to 320 Frames of Cartes de Visite.

320 Mrs. Matilda Clements: Embroidered Child's Dress.
321 Mrs. Matilda Clemens: Embroidered Child's Dress.

—Jones, Wool & Sutherland:
322 Large Mirror Frame.
323 Large Oval Picture Frame.
324 Small Oval Picture Frame.
325 Medium size Oval Picture Frame.

—Badger & Liudenberger:
326 Chickering & Sons' Grand Piano.
327 Chickering & Sons' Grand Piano.

—England & Turnbull, Architects:
328 Drawing, design for Club House.
329 Drawing, design for University.
330 Drawing, 4-story Building, showing elevation.
331 Drawing of Trinity Church.
332 Golden State Iron Works: One Piano Plate.

333 Mrs. Judge Pratt: One picture of Feather Flowers, natural colors. Entered for competition.

334 Mrs. M. A. Greenwood: one Child's Embroidered Blanket.

—A. Brown, Pictures in Frames:
335 The Mission, in water colors.
336 Toll Gate, at Lone Mountain, water colors.
337 Panama.
338 Monumental Engine Company: Photograph of George Hosseross.
339 John L. Durkee: Fireman's Hat, in glass case.
340 Joseph Roos: One Picture in Rural Frame.
341 A. F Mitchell: One Gold Watch, in glass case.
342 O Kaltschmidt: India Ink Drawing, Shakspeare.
343 John Roach: Miner's Compass and Transit Instrument.
344 345 Hiram Arents: Two woolen Parlor Mats, made by the patients of the State Insane Asylum, Cal.

—Jacob Zech:
345 Improved Piano Sounding Board.
347 Piano Key Board.
348 to 350 Three Ornamental Piano Desks.
351 Piano Key Board.

—H. P. Platt, Plaster Statues, (imported):
352 Union Refugees.
353 The Village Schoolmaster.
354 The Returned Volunteer.
355 The Dying Gladiator, in marble.
356 Union Refugees.
357 The Picket Guard.
358 The Wounded Scout.
359 The Slave Auction.
360 The Picket Guard.
361 The Picket Guard.
362 The Slave Auction.
363 The Sharp Shooters.

—Industrial Academy:
364 Architectural Drawing.
365 Architectural Drawing of Synagogue, cor. Geary and Mason Streets.
366 Two Crayon Drawings.
367 W. O'Donald: Plan of Portsmouth Square, in water colors.

368 S. C. Higgins, aged 16 years: Grecian Painting in oil.

360 to 374 Lawrence & Houseworth: Six Stereoscopes and Views.

—E. F. Lorkquin, Stuffed Specimens, Birds and Animals:
375 Group of Birds.
376 Case of Butterflies.
377 California Weasel.
378 Artificial Peacock.
379 California Wood Duck.
380 Humming Bird and Nest.
381 Lemur, from Central America.
382 Group of Birds.
383 California Quail.
384 Butter-ball Duck.
385 California Sea Gull.
386 Samples of Shells for Shell Work.
387 California Godwitt.
388 Group of Birds.
389 Wedding Wreath.
390 Skeleton of California Godwitt.
391 John Chinaman, with load of Wood.
392 California Arcut.
393 American Eagle.
394 Artificial Bird of Paradiso.

—Daniel Winter:
395 Glass Sign, Embossed and Gilded.
396 Glass Sign, Embossed and Gilded.

—Mrs. Ygnias G. Albares:
497 to 402 Lot Shell Flowers, natural colors, picked up on the Coast of California; lot of Berries from Mexico.

403 Mrs M. Tolle: Embroidered Silk Bed Quilt.

—Miss Margaret A. J. Smith:
404 Lord's Prayer, executed with a pen.
405 Position of the Hand and Pen, executed with a pen.

403 Mrs. Adele Bulger, Newton, El Dorado co., one Crochet Collar.

—Wasserman & Co., Oil Paintings:
407 Fancy Portrait.
409 Winter Scene.
410 Market Wagon resting at Noon.
411 Marine Sea Piece.
411 Moonlight on Panuel.
412 Antique Castle.
413 Horses in Groom.
414 Castle Moonlight.
415 Landscape.
416 Landscape, Morning.
417 Rural Scenery.
418 Scene in the Country.
419 Waterfall.
420 Moonlight, on panuel.
421 Landscape with Figure and Cattle.
422 Moonlight.
423 Marine Landscape, Fishing Boats.
424 Landscape.
425 Summer Landscape.
426 Interior of a German Country Inn.
427 Landscape, Night.
428 Landscape, Mountains.
429 Landscape, Rocks and Figures.
430 Dutch Scene on the Canal.
431 B. C. Turnbull: Portrait, executed with a pen.

—Mrs. A. B. Bates:
432 Silk Quilt, containing 3,975 pieces.
433 Silk Table Cover.
434 Henry Plath: Crochet Mat.
435 Esther Morris: Embroidered Picture, finding of Moses.

—S. H. Williams & Son:
436 Photograph, Residence of T. H. Selby, Redwood City.
437 Architectural Drawing, Newhall's Auction House.
438 Photograph, Residence of E. H. Howard.
439 Large Needle-work Picture, in frame.

—James Elkington:
440 Case Stuffed Birds.
441 Case Stuffed Birds.
442 One Stuffed Bird.
443 Case Stuffed Birds.
444 Case Stuffed Birds.
445 S. C. Higgins: Drawing of Locomotive, in oil colors.

—Henry Klein:
446 Inlaid Writing Desk.
447 Inlaid Work Box.

—A. B. Bates:
448 Mandarin's Sword.
449 Japanese Sword.

—Mrs. Ygnalis G. Albares:
450 Worked Skirt.
451 Mexican Cup.
452 Abbalino Lawrence: Case Bead Work.
453 Dr. E. Belle: Case Anatomical Specimens.

—Miss Cornelia M. Bell:
454 Needle-work Picture, Scene in Life of Christ.
455 One piece Embroidery.
456 One piece Worsted Work.

—Mrs. D. R. Coleman:
457 Scroll Work, in case frame.
458 Quaker and Quakeress.
459 Crochet Worked Tidy, on canvas.
460 Powell & Warren: Five pieces Wood Carving.
461 John Daniels: Marble Mantel.
462 Miss Ada Meachum: Afghan, crochet and embroidered
463 S. Deitch: Child's Turkish Quilt.
464 A. J. Doolittle: Official Map of Humboldt county, Cal

—Mrs. J. B. Harmstead:
465 Wax Basket and Fruit.
466 Wax Vase, Flowers and Wreath.
467 S. H. Williams & Son: Architectural Drawing.

—Miss Fannie Gray:
468 Embroidered Piano Cover.
469 470 Two American Flags.
471 Shell Frame containing picture, T. Starr King.
472 Shell Frame containing picture," in Memoriam.
473 Shell Frame.
474 Shell Frame.

—Oscar Kalkschmidt:
475 Lake George, painted in oil colors.
476 Lake Conewa, in oil colors.
477 Fancy Sketch, in oil colors.
478 Portrait of a Lady, oil painting.
479 C. M. Wood: Stencil Plates, in frame.
480 Mrs. J. B. Harmstead: Glass case of Wax Shells.
481 C. Brauer: Lead Pencil Drawing of Gen. Wright

—George Reuben:
482 Samples Porcelain Fruit.
483 Portrait in Oil, very old.

—Palmer Cox, Crayon Drawings:
484 Marmion.
485 A Little Girl, copied from a Carte de Visite.
486 A Portrait, taken from Carte de Visite.
487 Miss McAllen: Crochet Mat.
488 to 493 Geo. Hogle: Samples of Soapstone Picture Frames.
494 Master J. F. Clark: Pencil Drawing.
495 Mrs. J. R. Duerden: Patch-work Quilt.

—D. Warren Smith:
496 Major-General Burnside, engraving.
497 Major General P. H. Sheridan, engraving.
498 Andrew Johnson, engraving.
499 Lieutenant General Grant, engraving.
500 Abraham Lincoln, engraving.
501 General Wm. T. Sherman, engraving.
502 503 Mrs. Geo. M. Wood: Samples of Spanish Needle work.

—C. C. Watkins, Photographs:
504 to 525 Yo Semite and California Views.

—Lazarus Castagino:
526 Inlaid Table.
527 Oval Frame.
528 Portrait of Caribaldi, in oil.
529 Loomis & Smith: In Memoriam, a specimen lithographic design and workmanship.

—J. H. Van Reed: Curiosities from Japan, viz:
530 Bronze Incense Urn.
531 Turtle, cut out of pure Crystal.
532 Carved Frog.
533 Crockery Vase (satsuma ware.)
534 Crockery Vase.
535 Bowl (satsuma ware.)
536 Flower Vase (satsuma ware.)
537 Bronze Teapot.
538 Pair of bronze inlaid Stirups, from Shimonoseki.
539 Explosive 13-inch Shell, taken from the forts of Shimonoseki.
540 Lacquered Waiter.
541 Japanese Coat of Mail.
542 Japaneso Armor.
543 Iron and chain-plate Armor.
544 Cable, made of human hair.
545 Fireman's Hat and Embroidered Cape.
546 One Sword, very rare Blade, 300 years old.
547 One Sword, very rare blade.
548 One Spear, rare blade.
549 Three Swords, rare blades.
550 Two Japanese Images.
551 Nine rare Bronzes.
552 Fifteen very old Coins.
553 One Crockery Image.
554 Crockery Japanese Bull.
555 Japanese Toy Dog.
556 Two Skeins Japanese Raw Silk.
557 Piece of Gold Embroidery on Velvet (very old).
558 Japanese Painting on Gilt Paper.
559 Japanese Paintings of Entomology.
560 Tri la Japanese Photographic Views.
561 Sea House, view taken by a Japanese.
562 Tactics Japanese Patchage, by Wirgman, correspondent London Illustrated News.
563 Mrs. Hurlbut: one Embroidered Sofa Pillow.
564 565 Mrs. Sarah F. Colton: Two Velvet Pin Cushions.
566 to 576 J. F. Wolf: Eleven Architectural Drawings.
577 Thomas Cubbins: Manuscript Memorandum Book of the New Orleans Expedition, War of 1812.
578 Mrs. R. F. Monitor: One Gent's Pen-wiper.
579 Mrs. J. B. Harmstead: One oval case Wax Flowers.

—John Wolman:
580 Manzanita Pipe, with stem made of horn.
581 Pipe Stem, made of ox horn.

—F. A. Butman: Oil Paintings.
582 Sunset on the Upper Sacramento.
583 Mountain Scene, Lake Tahoe.
584 River Scene, Yosemite Valley.
585 River Scene, Yosemite Valley.
586 River Scene, Yosemite Valley.
587 Scene near Santa Cruz.
588 View on Lake Tahoe.
589 Miss Mattie Field: Case of Wax Flowers.

—S. C. Higgins, aged 16 years:
590 Gascon Oil Painting of Abraham Lincoln.
591 Grecian Oil Painting, child rescued by Newfoundland dog.
592 Melvin Simmons: Model of U. S. Ship Hartford.
593 I. C. Pray: Polatypus, native of Australia.

—Mrs. Amy Culver:
594 Patched Bed Quilt.
595 Patched Bed Quilt.

—J. J. Gardiner, Oakland:
596 Pencil Drawing, by a miss 13 years old.
597 Pencil Drawing, by a miss 15 years old.
598 Penciling, of rare merit, from an engraving.
599 Mrs. Ellen A. Darden: Rug made of Rags.
600 Miss Mary Gray: Specimen of Needle-work.

—C. M. Van Reed:
601 Two Japanese Crystal Balls.
602 Three Silver Medals, presented to Japanese Embassy by the United States.
603 Four Bronze Medals, presented to the Japanese Embassy by the United States.
604 Japanese Petrified Toad.
605 Two Japanese Pipes.
606 Japanese Chop Sticks.
607 Five Pieces Japanese Paper Money.
608 Japanese Crystal Vase.

—Nahl Bros. & Co.:
609 to 629 One Oil Painting; three Retouched Photographs; four Photographs, in water colors; eight Plain Photographs; five Pictures on Porcelain.
630 Claus Wilburn: Wooden Watch Chain, made with pen-knife.
631 to 633 F. M. Trueworthy: Three Specimens of Stencil Plates.
634 R. L. Tabor: Book of outlines of Leaves, Grasses and Flowers.
635 to 649 D. H. Wood: Five Oil Paintings and ten Photographs.
650 Mrs. Clara W. Chapman: Piece of Worsted Embroidery.
651 Cameron, Kuenzi & Mills: one Album Stereoscope.
652 Mrs. C. E. Hendricks: Case of Embroidery and Stamps.
653 Mrs. Tolle: Glass covered Table containing Needle-Work.

—E. M. Van Reed:
654 Japanese Silver Coin.
655 Two Japanese Gold Coins.
656 J. Keller: Worsted Mat.
657 Chas. A. Gridley: one Bomb Lance.

—G. H. Baker, Samples of Litbography and Engraving;
658 Diploma.
659 Carte Encampment, I. O. O. F.
660 Birds' Eye View of Sacramento.
661 Mining Certificates.
662 Mining Certificates.
663 Nevada Sanitary Commission Certificate.
664 Ladies' Christian Commission Certificate.
665 Alameda R. R. Bond.
666 Freeport R. R. Bond.
667 Pioneer Stage passing Lake Tahoe.
668 La Penese of E. Kendall.
669 Fair Pavilion.
670 J. E. Tbayer: Model of Schooner.
671 M. R. Landeslager: Case Gold Pens.
672 Mrs. W. H. Lawreuce: Agricultural Wreath in shell frame.
673 to 699 Jacob Shew: Twenty-seven frames of Photographs and Cartes de Visite. [Neglected to furnish list, as requested.]
700 to 704 Wm. Anderfuren, aged 14 years: five Drawings, in water colors.

—Miss E. V. Green:
705 One Case Wax Flowers.
706 Case of Wax Statuary.
707 Case of Wax Statuary.
708 Mrs Margaret Curtis: Mathematical Models for cutting Ladies and Childrens' clothing.
709 Mrs. Mary Mathews: Case of Dolls illustrating Mrs. Curtis' system of cutting Ladies Clothing.
710 C. W. Royston: Drawing of Stationary Engine.

—Mrs. Charles Beideman:
711 Samples Needle-Work for Skirt Trimmings.
712 Plated Skirt.

—L. Klein, Photographic Views:
713 View at Lone Mountain.
714 Mr. Rolton's Residence.
715 Front Street Block.
716 Photographic View.
717 Eureka Engine House.
718 View at Lone Mountain.
719 View at Oakland.
720 Residence of Col. Blackwood.
721 Residence of J. Davis.
722 View at Lone Mountain.
723 View at Oakland.
724 A Grave at Lone Mountain.
725 Litchfield's fat Ox.
726 Presidio.
727 Langley's Drug Store.
728 Residence of E. Davis.
729 Deitz's house, Oakland.
730 Residence of Mr. Shepard, Oakland.
731 J. Laidley's Laundry.
732 Bay View Park Hotel.
733 Residence of Mr. Hoar, Geary street.
734 Residence of C. Low.
735 Residence of T. Day.
736 Hough & Baldwin's Residence.
737 Telegraph Hill.
738 Residence G. P. Swift, Sonoma.
739 House on Rincon Hill.
740 House on Howard Street.
741 Lone Mountain Views.
742 Thos. Day's House.
743 Pacific Female College, Oakland.
744 Capt. Macondray's Grave, Lone Mountain.
745 D. Rice's House.
746 Smith Park.
747 Graves at Lone Mountain: Toland's Medical College; House cor. First and Harrison streets.
748 Tomb of Jos. S. Garwood.
749 Mrs. C. Lobree: Table Cover.
750 Mrs. Mary A. Engle: Worsted Wreath.
751 L. Klein: Photo. Views of Post Office; Orphan Asylum; Peter's Burial War-horse; Grave at Lone Mountain, and five Residences.

—Winter:
752 Interior of St. Malchus, Paris.
753 Departure of the Israelites from Egypt.

—F. Mezzara, 421 Jackson street:
754 Bust of C. P. Lott in Plaster.
755 Bust of F. Rudolph in Plaster.
756 Bust of T. Torquet in Plaster.
757 Bust of D. C. Broderick in Plaster.
758 Bust of J. C. Baldwin in Plaster.
759 Glass Case of Cameo Pins.
760 J. H. Rossiter: Photograph of Dog "Cæsar."
761 Mrs. Louisa McGinn: Samples of Fluting.
762 Miss M. J. King: Embroidered Pin Cushion.
763 W. H. Davenport: One Crochet Tidy.
764 Mrs. P. C. Blunt: One Maple Sugar Bowl, over one hundred years old.
765 C. L. Houghton: Crayon Drawing, "Over the River."
766 Mrs. E. McGinnis: Ornamental Pin Cushion.
767 Mrs. Mark Anthony: Fancy Skirt, stitched by hand.
768 769 Chas. Hobbs: Two Oil Paintings, painted by Thos. Hall.
770 Lazzarus Castagino: Inlaid Picture of Garibaldi.
771 Miss Ida V. Doyle: Specimen of Cheuille Embroidery.
772 D. Mojica: one Guitar.
773 James A. Kerr: Water Color Drawing, scene in Russia.
774 G. W. French: Chain and Wooden Pincers.
775 Mrs. H. N. Fullam: Last Council of War, in Shell Frame.
776 Mrs. H. N. Fullam: Shell Frame.
777 Mrs. Clara W. Chapman: piece Cheuille Embroidery.

—Mrs. Read:
778 One Ladies Waist.
779 One Case Skirt Supporters.
780 J. E. Wolf: Architectural Drawing.

—Bradley & Rulofson, Photographs:
781 Gen. Satter, the Hero of the Bear Flag.
782 Hon. Schuyler Colfax.
783 Stevens A. Field, member Supreme Court, U. S.
784 J. Donahue.
785 Mr. Blackwood.
786 Rev. Mr. Goodwin.
787 Rev. Horatio Stebbins.
788 Mr. Butterworth.
789 Ex-Governor Stanford.
790 Mr. Harbenbergh.
791 Mrs. Harbenbergh.
792 James Gamble.
793 Flood Shockly.
794 Whaling Captains, Shenandoah Victims.
795 Mr. Williams.
796 Gen. Vallejo.
797 A Young Man.
798 Harry Williams.
799 Mr. Bolden.
800 Portrait of a Lady.
801 Portrait of a Lady, in water colors.
802 Portrait of a Lady, in water colors.
803 Portrait of a Lady, in India ink.
804 Dr. Davis.
805 Mr. Dickenson.
806 Mrs. Dr. Ten Broeck.
809 Hunting Scene.
810 Boating Scene, "Blow your own Horn."
811 Mr. Houseworth's Child.
812 Portrait of a Lady, in water colors.
813 Chas. Legay, water colors.
814 Portrait of a Lady, water colors.
815 Family Group.
816 Portrait of a Lady, water colors.
817 Portrait of a Child, in India ink.
818 Child at Prayer, water colors.
819 Portrait of a Child, water color.
820 Portrait of a Lady, water color.
821 Col. Wood and Staff.
822 Charles Low, water colors.
823 to 8.5 Portraits of Ladies, in water colors.
826 Bradley & Rulofson's Gallery.
827 Hon. Schuyler Colfax and Party.
828 Group of Young Ladies.
829 Kaisabro, Japanese Prince.
830 Colored Cartes de Visite.
831 Colored Cartes de Visite.
832 Cartes de Visite of Children and Yosemite Views.
833 to 837 Cartes do Visites.

—William Shew, Photographs:
842 Rev. Dr. Bellows.
843 Gen. Sutter, the Old Pioneer.
844 Mr. Swett.
845 Hon. John Conness, U. S. Senator.
846 D. C. Broderick.
847 Thos. Starr King.
848 Rev. Horatio Stebbins.
849 Hon. Schuyler Colfax.
850 Miss Dora Shew.
851 Miss Swett.
852 Col. James.
853 Mr. Bowles.
854 Rev. Dr. Lacy.
855 Mr. Sargent.
856 Miss Stephens.
857 Miss Stephens.
858 Mrs. Armes.
859 Miss Maggie Fallon.
860 Gen. Sumner.
861 Sig. Scoglia.
862 Mr. Backus.
863 Mrs. Backus.
864 Gen. Grant.
865 Signorina Scrovilla.
866 to 895 Frames of Cartes de Visite and Photographs.

—Mrs. J. A. Whipple:
896 One Piece of Embroidery.
897 Pair of Embroidered Slippers.
898 Cameron, Kuenzie & Mills: Glass case of Album Stereoscopes.
899 John N. Class: One Frame, made of California jewels

—Fortunato Arriola: Oil Painting.
900 Portrait of Mrs. Reslo, taken from a photograph.
901 Portrait of Mrs. H. P. Janes, from a carte de visite.
902 Mr. Ralston, from a photograph.
903 Miss Emma Hall, from life.
904 Mrs. Wade's Deceased Child.
905 Mrs. Bacon.
906 F. Arriola, painted by himself.
907 Miss Ida Owens.
908 Mr. Hall, from a carte de visite.
909 Miss Gage: One Case Patterns for Ladies' and Childreu's Clothing.
910 Cameron & Kuenzi: Specimens of Scroll Sawing.
911 Mrs. N. G. Kittle: Embroidered Chemise.
912 Mrs. N. G. Kittle: Embroidered Pillow Slip.
913 to 915 John Stratman: Cartes de Visite, Cups and Saucers.
916 John Statman: Masonic Picture, colors made to represent pearl.
917 Mrs. Judge Pratt: Representation of Crucifixtion, made of Oregon Mosses.
918 Capt. Henry Tucker: Engraving of Gen. Washington, the only article of Furniture saved from the Ship Sophia Thornton, when destroyed by the Shenandoah.
919 Thos. Selby & Co.: View of Shot Tower, cor. of Howard and First street.
920 Louis Schuch: Case of Meerschaum Pipes and Meerschaum Ambers.
921 Mrs. Emily P. Bailer: Worked Skirt.
922 Mrs. Emily P. Bailer: Worked Skirt.

—Charles F. Jones, Chinese Curiosities collected during the Rebellion in 1863, 1864, 1865, viz.:
923 Bamboo taken from the Palace at Ye Sing.
924 Shawl one of the Wives of the Tee Wang, at the City of Le Yang.
925 Ancient China Cup.
926 Small Chinese Josh, 200 years old.
927 Musical Instrument.
928 Chinese Scissors.
929 Flint, Tinder and Steel.
930 Tongue Cleaner.
931 Eagle, carved from the root of a Tree.
932 Chinese Coarse and Fine Comb.
933 Chinese Knife.
934 Chinese Purchase Stones and Curiosities.
935 Tulping Woman and Shoe.
936 Foot Warming Pan.
937 Mandarin Stamps.
938 Chinese Shoe-lift.
939 Silver Chain.
940 Jacket of the Wangs.
941 Chinese Curtain Holders.
942 Bottom of Ladies Trowsers.
943 Tulping's Head Dress.
944 Gold Medals, presented to Mr. C. F. Jones, by the Emperor of the Tulpings.
945 Piece of the Covering of the Throne at the Palace where the Emperor was Murdered.
946 Jade Stone, a precious stone of China.
947 Silver Bangles, captured at the battle of Tsing Poo.
948 Rice Stone.
949 Silver Bangle, taken at Pre-shape Grand Canal.
950 Jade Stone Buckle.
951 Model of Chinese Boats.
952 Opium Pills.
953 Chinese Needles.
954 Sewing Silk.
955 A very Ancient Dish.
956 A very old Josh.
957 Pair of Eye Glasses.
958 Aromatic Fan, from Calcutta.
959 Fan from Bombay.
960 Box of Needles.
962 Two Trays, taken from Chung Wong's Palace.
963 Carved Food-board of Redstead, taken from the Palace of Mowang.
964 Two Eggs, made of Alabaster.
965 Paper weight, made from Elephant's Tooth.
966 Signal of Marriage, with high Mandarin and Lady.
967 Opium Pipe.
968 Bracelets.
969 Coins of China and India.
970 Chinese Imperial Mandarin.
971 Taiping, or Rebel Chief.
972 Pure Gold Taiping Pins.
973 Pipe, taken at the fall of Tsing Poo.
974 Lot of Curiosities, taken at the battle of Morlin.
975 Show Case of Coins and Curiosities from all parts of China.
Twelve Pictures from celebrated Palaces in the Cities of Le Yang, and Foo-Chow-Foo.
976 Mrs. Henry Bradt, Red Bluff: Portrait of John Brown, painted from a photograph in possession of his widow; said to be the best likeness extant.
977 Mrs. Matilda Clements: One Embroidered Child's Sacque.
978 Capt. Edgar Wakeman: One Mahogany Tea Chest.
979 Miss Gage: One Wax Statue.
980 Mr. S. P. Higgins: One Fruit Piece.
981 Industrial Drawing Academy: One Pencil Drawing.
982 Master H. T. Barrett: One Toilet Cushion.
983 C. F. Richards: Colored Mosses and Pearl-shell in frame.
984 G. F. W. Richter: Seven Dyed Hen's Eggs, engraved with the point of a pen-knife.

A New and Harmless Remedy.—It is well known that nearly every animal and insect has an unconquerable aversion to some particular plant, and that what will kill certain animals or vermin can be eaten with impunity by others. The oil of pennyroyal will drive every mosquito out of a room if scattered about, even in very small quantities. The inner bark of the white ash will, if brought in contact with a snake, stiffen him like a stick in an instant; and a bit of fresh tobacco placed on his tongue will kill him as dead as if struck by lightning, while sheep and goats feed upon it, if pressed, with entire impunity. Roaches are exterminated by scattering a handful of fresh cucumber parings about the house. No fly will light on a window which has been washed with water in which a bit of garlic has been boiled. The leaves of a common Japanese plant, which can be eaten in any quantity by the human race, kills every species of rat, mouse and creeping thing, and forms the basis of "Costar's" and all other effective "rat exterminators." We might go on with the list almost indefinitely, but have quoted examples enough for our purpose. Alexander Robertson writes to the *Canada Farmer*: "I have for the last four years proved to my satisfaction that the "Wild Peppermint" is a sure and reliable exterminator of rats. In proof of the fact, I will state the result it has had with me. Four years ago my barn was regularly infested with rats; they were so numerous that I had great fears of my whole grain crop being destroyed by them after it was housed; but having about two acres of Wild Peppermint that grew in a field of wheat, after the wheat was cut and harvested the mint was cut and bound with it, and it drove the rats from my premises. I have not been troubled with one since, nor am I at present, while my neighbors have any quantity of them. I feel confident that any person who is troubled with these pests, could easily get rid of them by gathering a good supply of the mint and placing it around the walls or base of their barns.—*Alta.*

They have succeeded in catching fish in France by means of an electric light. The light was produced by a powerful electro-magnetic machine constructed by Monsieur Bazin, the well-known engineer. The experiment was conducted by M. Bazin on board the Andalouse, in the presence of fifteen hundred persons. The light, in a lantern, was submerged in the water, and the fish came to it in shoals while the fishermen caught them in their nets. M. Bazin is shortly to proceed to Bona, in Algeria, and establish a coral fishery by the assistance of his electric light. He proposes in the meantime to descend full four hundred feet into the sea, and explore the "depths of the ocean" with his submarine instruments.

The Germans do not have the word "churchyard and burying ground" to designate their places of interment; they use the beautiful and suggestive expression, "God's Acre" and the "Court of Peace."

W. BRUCKNER'S ROASTING FURNACE.

In most and best metallurgical works the operation of roasting the ore has been, till now, performed in reverberatory furnaces. As a good result in the yield of the precious metals depends much upon a well conducted roasting, much care and attention is generally bestowed on its process. Skillful and experienced workmen are indispensable, as any carelessness or want of observation may cause heavy losses.

Now, there are two principal difficulties which must be overcome in the roasting operation:

The first of these consists in the necessity of continually stirring the ore, in order to expose all the particles of it to the combined action of heat and air, and to prevent them from melting and caking. For this purpose the pulverized ore is spread out over the hearth of the red hot furnace, and the workmen are required to stir it in a uniform way, and without interruption, with an iron hoe. It is an important point in this manipulation, that the heat is neither too high nor too low, and that all the particles of the ore are exposed to the oxydizing influence of the flame in the same degree.

The second difficulty consists in the following: It must be borne in mind that, in a reverberatory furnace, the heat will always be stronger nearest to the fire-bridge than in the other parts of the furnace; this being a fault attached to all furnaces where the heat is created by the flame of the fuel, and which has not yet been overcome, nor will it likely ever be. This circumstance involves the necessity of moving the ore, from time to time, from the flue to the fire-bridge and vice versa. It is easily understood what a tedious and troublesome operation this must be with a quantity of half a ton, or a ton of ore in a space extending over an area of from ten to twelve feet in length, and eight and more in width. In a well conducted roasting this transplacing of the whole bulk of the ore is necessary at least once every hour, and each furnace requires, therefore, not less than three workmen.

In order to lessen the expense for labor in roasting, attempts have been made for a long time, to apply mechanical force to the operation of stirring and transplacing the ore. Parke's roasting furnaces, now in use at the Pembrey Copper Works, consists of an iron stirrer, turning round a vertical axis on a round horizontal hearth. In other inventions revolving hearths and revolving cyliuders, for various arrangements, have been devised for a long period.

Although a revolving cylinder, in which the flame enters at one open end and leaves at the other, evidently fulfills very well one of the two principal conditions which have been laid down in the above as necessary for a good roasting, namely, that of continually renewing the surface of the ore, it does not overcome the other difficulty; that is, the moving of the ore from the comparatively cold end nearest to the flue to the fire-bridge and back. Hence it appears that as long as there did not exist a sufficiently plain and effective way of moving the ore in the direction of the axis of the cylinder, as well as along its circumference, the process could not be considered a perfect one.

By numerous experiments, which Mr. Bruckner has made, for the purpose of overcoming this difficulty, he has succeeded in inventing a stirring apparatus which has proved to perform the operation of moving the ore in the direction of the axis of the cyliuder in the most satisfactory way. It consists of converging conveyors, fixed diagonally upon the inside of the horizontal revolving cylinder, and constructed opposite each other, and in opposite directions, in such a manner that in every revolution of the cylinder the ore from the hotter parts, nearest to the fire-bridge, is transplaced to the comparatively cooler parts, nearest to the flue, and thence back by the opposite conveyors, thus exposing the ore to the uniform action of the heat.

Besides this, conveyors are arranged in such a manner, in combination with the discharge hole in the middle of the cylinder, that when the aperture is opened, the ore is discharged in a few revolutions.

The furnace, which was exhibited and in operation at the Fair, is nine feet long by three feet, inside diameter, and is capable of roasting three tons of sulphurets in twenty-four hours, with one cord of wood. One man can attend to six of these furnaces. It can be set up in less time and with less expense than a reverberatory furnace. The power to drive the machinery is very small; one man can easily turn it.

This furnace can be used for oxydizing roasting, for chloridizing roasting, with or without steam; for roasting auriferous pyrites, or any other gold, silver, lead or copper ore of any per centage of sulphurets. It may be used, too, for calcining ore in pieces before crushing.

A patent has been applied for. The following estimates, which are made within correct bounds, will show most plainly the superior advantages of this new furnace over the old process.

Five Tons of Ore are Roasted in Twenty-four Hours, in Washoe in Four Reverberatory Furnaces:

With 12 Men, at $3.50	$42 00	
3½ Cords of Wood, at $12.00	42 00	
500 lbs. Salt, at 50c	25 00	
	$109 00	
Cost of Roasting per Ton	21 60	$21 80

Five Tons of Ore are Roasted in Twenty-four Hours, in Bruckner's Furnace, in Two Furnaces:

With 1 Man, at $3 50	$3 50	
2 Cords Wood	24 00	
500 lbs. Salt	25 00	
Moving Power, 7 per cent. of a 30-horse power engine	3 50	
	$56 00	
Cost of Roasting per Ton	11 20	
		$11 20
Saved per Ton		$10 60

EXAMPLE.—Speaking of the contagiousness of example the New Orleans *Bulletin* remarks; "Throw a boy among a set of vagabonds, and he soon becomes like them. Put a strong enlightened man of point and pith and principle among savages, and at last he makes them civil, otherwise he becomes savage. The contagious tio forces begiu instantly to operate, and the weakest one must give way, so that in process of time the mass becomes homogeneous. The laws hold good morally as well as physically. There is a fitness of things which nature has established, and like has a constant tendency to produce like. Thrift induces thrift. Dilapidation throws a deadness over all surrounding objects. It chills and benumbs everything in its neighborhood. The birds flap their wings lazily and the insects creep about as though a paralysis were upon them. A nest of old rotten shanties in a street is a dead sea of blight. The people will soon correspond with them. The dogs will be mangy, and the chickens look old before their time. The children will be half asleep and move as though it were a labor. Nothing is active under such circumstances but the law of assimilation. That is in full force. Everything is in a slow pace towards a common likeness."

THE LONG AND SHORT TON.—The Iron and Steel Association at their recent meeting in Chicago, adopted a resolution in favor of the use of the ton of 2,000 pounds in all transactions. The discussion upon the subject showed that through the action of the internal revenue laws and the regulations of many railroad companies, 2,000 pounds is in large use throughout the country, that many iron workers now employ no other ton in their accounts, while a few keep their accounts in tons of 2,240 pounds, but discard the cwt., quarters and pounds, while others buy by tons of 2,240, and calculate their freights and taxes by 2,000 pounds. The reasons of those opposed to the universal use of 2,000 pounds were of a local character. The books in use were ruled for 2,240. The contracts on hand were for the long ton; the scale of wages were calculated on the long ton, but no reason of a general nature, and none satisfactory to the convention was urged by the advocates of the ton of 2,240 pounds, of whom there appeared to be but few in the body.

THE WEST POINT FOUNDRY.—A writer describing this military establishment, observes: During my visit I learned that since the war began, over three thousand cannon have been manufactured here for our government—the Parrott gun exclusively—varying from those of medium calibre to three hundred pounders. These guns have done duty in our forts, on our gunboats and in our grandly moving armies, so sublimely sweeping through the hostile Southern States. One of these three hundred pounders weighs twenty six thousand pounds or thirteen tons. One was being cast as I visited the place. It was a sight worth traveling hundreds of miles to see. These guns are submitted to the severest tests before turned over for service. The precipitate banks of Crow Nest are the target of the experimental trial, the distance fired being two thousand yards. Two huge bared spots with deep indentures in the rocks, attest the accuracy of the range and force of the firing. At all hours of the day for the past four years the firing of these guns has awakened fearful echoes among these environing hights, oftentimes sounding like the roar of a terrible battle.

ENTOMOLOGICAL SPECIMENS.—To preserve entomological specimens, M. Gerber employs an ethereal solution of carbonic acid with ten per cent. of the latter, which he finds to effectually protect the insects even in a place infested with ants. He recommends the solution especially, therefore, to entomologists making collections in hot countries.

MOUNTAIN OF MARBLE.—About one mile from Silverthorn's bridge, says the Red Bluff *Independent*, which crosses McCloud river, towers to the clouds a gigantic mountain, white as if clad in the livery of a ghost, at the foot of which is located Lee & DeLong's marble quarry, from which they take both the white and clouded marble, of as fine quality as that imported from the Green Mountain State. The whole mountain appears to be one vast pile of marble, of quantity sufficient to supply the world. It receives a finish as fine and smooth as glass, or like a polished mirror. The great and remarkable cave, one room of which is 100 feet in length by 40 feet in breadth and 70 feet high, is near this marble quarry. It is a curious place to visit and fully worth an excursion to view the wondrous works of Nature in that section of the country. The quarry and cave are only some five miles from Copper City, Shasta county.

AN OIL WELL ON FIRE.—A despatch from Pit Hole, Pa., August 3d, mentions that Well No. 19, United States Farm, on Pit Hole Creek, was destroyed by fire about seven o'clock on that evening. The well was finished on the day preceeding, and was flowing about two hundred barrels, and no tanks being up, the oil was allowed to flow on the ground. Some twenty persons were standing in and around the derrick, some of whom it is feared were unable to escape, for the ground for forty feet round was one sheet of flame in a moment. Three men are known to be seriously burned, and only saved their lives by jumping into the creek.

A "PERPETUAL MOTION CLOCK" is being exhibited at the New Zealand exhibition, and there is said to be no deception in its construction. A correspondent of the *Scientific American*, from Nelson, New Zealand, says, the inventor has had a clock openly going in his house for the last fifteen months without being touched, and there seems no reason why it should not continue to go as long as the material will wear.

HOURS OF LABOR.—Eight hours for a day's labor, is the last idea discussed among the mechanics of the Eastern States, with a view to having it adopted by the Legislature. As machinery increases in productive power, mechanic's labor decreases, not because machinery supersedes it, but because it contributes so largely to wealth and cheapens produce that a man can enjoy more of the comforts of life with less labor. The tendency of the accumulation of wealth is all the time to diminish the necessity of labor for a mere living, and consequently affording more time to labor to procure some of the luxuries of life.—[*Philadelphia Ledger.*

THE leaves of the elder, if strewed among corn or other grain, when it is put in the bin, will, it is said, effectually preserve it from the ravages of the weevil. The juice will also kill bed bugs and maggots. "Insects never touch elder bushes. The leaves of elders scattered over cabbages, cucumbers, squashes and other plants subject to the ravages of insects, effectually shield them; the plum and other fruits may be saved by placing on the branches, and among them, bunches of the leaves."—*Exchange.*

TRAVELING BOTTLES.—A number of empty bottles have been thrown into the sea on the west coast of Africa, and have been picked up on the Irish coast. One has been found after sixteen years, another after fourteen, and a third after ten years. One was thrown into the Caribbean Sea, and after five days was picked up two hundred and ten miles distant. A bottle was thrown in at Behring's Straits, and two hundred days afterwards was found on the Honduras coast, having traveled three thousand five hundred miles.

A SINGULAR accident is said to have happened at Springfield, Mass., recently. A five-foot drive-wheel for a locomotive, just from the foundry, was lightly tapped with a hammer by a workman, when it burst, and a portion of the rim and several spokes, in all nearly a quarter of the entire wheel, flew some fifteen feet, but fortunately injured nobody. There was a similar accident a few days previous, when a workman was wounded in the leg. These are the only instances ever known at the shops in that city.

WASHINGTON IRVING once said: "If a Dutchman gets rich keeping a corner grocery, nobody sees anything out of the way in it; but if a literary man gets anything beyond his bread and cheese, "gad sir, they put it into the newspapers; its more wonderful than the great turnip."

INJURIES BY RAIN.—During the two last weeks in July, which is the harvest time in the Western States, it rained almost incessantly through Ohio, Indiana, Illinois, and portions of Iowa, Missouri, and Michigan. The damage sustained by farmers is immense. It will reach to many millions.

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, September 9.

24 shs Ophir at 365 per foot.
21 shs Ophir at 370 per foot.
12 shs Ophir at 370 per foot, s 3.
166 shs Ophir at 375 per foot.
182 shs Ophir at 376 per foot.
48 shs Ophir at 378 per foot,
96 shs Ophir at 380 per foot.
24 shs Ophir at 380 per foot, s 5.
12 shs Ophir at 380 per foot, s 3.
12 shs Ophir at 382½ per foot.
108 shs Ophir at 382½ per foot, s 3.
12 shs Ophir at 385 per foot.
20 shs Gould & Curry at 1290 per foot.
4 shs Gould & Curry at 1300 per foot.
7 shs Uncle Sam at 180 per foot.
5 shs Uncle Sam at 183 per foot.
6 shs Uncle Sam at 184 per foot.
100 shs Chollar at 455 per foot.
20 shs Chollar at 455 per foot, b 5.
20 shs Chollar at 460 per foot, h 10.
40 shs Potosi at 420 per foot.
14 shs Potosi at 422 per foot.
160 shs Daney at 40 per foot.
180 shs Daney at 41 per foot.
1 sh Yellow Jacket at 1450 per foot.
1 sh Yellow Jacket at 1450 per foot.
5 shs Overman at 130 per foot.
3 shs Overman at 135 per foot.
3 shs Belcher at 900 per foot, s 30.
3 shs Belcher at 910 per foot.
21 shs Belcher at 905 per foot.
9 shs Belcher at 895 per foot,
12 shs Belcher at 900 per foot.
3 shs Belcher at 905 per foot, s 3.
6 shs Hale & Norcross at 520 per foot.
12 shs Crown Point at 1200 per foot.
25 shs Imperial at 259 per share.
70 shs Imperial at 257½ per share.
10 shs Imperial at 258 per share.
40 shs Sierra Nevada at 22 per share.
60 shs Sierra Nevada at 21 per share.
20 shs Sierra Nevada at 19 per share, s 30.
180 shs Sierra Nevada at 19¾ per share, s 30.
50 shs Sierra Nevada at 20½ per share.
50 shs Sierra Nevada at 21¼ per share.
40 shs Sierra Nevada at 22 per share, b 10.
5 shs Kentuck at 65 per share.
10 shs N. American, Ex Sam, at 15 per sh.
10 shs N. American, Ex Sam, at 16½ per sh.
31 shs N. American, Ex Sam, at 16¾, s 3.
50 shs Burning Moscow at 20 per share.
20 shs Burning Moscow at 20 per share, s 3.
8 shs Confidence at 123 per share.
Amount of sales.....$126,387 00

Monday, September 11.

3 shs Belcher at 915 per foot
12 shs Belcher at 900 per foot, s 30.
1 sh Yellow Jacket at 1450 per foot.
1 sh Savage at 1220 per foot, s 15.
1 sh Savage at 1220 per foot.
2 shs Savage at 1215 per foot.
16 shs Hale & Norcross at 505 per foot.
2 shs Hale & Norcross at 500 per foot.
6 shs Hale & Noreross at 500 per foot, b 3.
2 shs Hale & Noreross at 495 per foot.
3 shs Hale & Norcross at 490 per foot.
4 shs Hale & Norcross at 490 per foot, b 5.
4 shs Chollar at 457½ per foot.
24 shs Chollar at 455 per foot.
5 shs Uncle Sam at 195 per foot.
6 shs Uncle Sam at 200 per foot, b 3.
6 shs Uncle Sam at 200 per foot.
5 shs Uncle Sam at 197½ per foot.
4 shs Alpha, C. H., at 1950 per foot.
80 shs Daney at 42½ per foot.
20 shs Daney at 43 per share.
20 shs Daney at 44 per foot.
20 shs Daney at 45 per foot.
40 shs Daney at 45 per foot, r w.
40 shs Daney at 47 per foot.
120 shs Ophir at 375 per foot.
60 shs Ophir at 380 per foot, r w.
60 shs Ophir at 380 per foot, s 3.
36 shs Ophir at 382½ per foot.
6 shs Ophir at 380 per foot.
4 shs Crown Point at 1130 per foot.
4 shs Crown Point at 1125 per share.
4 shs Crown Point at 1140 per share, r W
50 shs Imperial at 259 per share.
3 shs Imperial at 259½ per share.
10 shs Imperial at 259 per share, r w.
25 shs Imperial at 260 per share, b 5.
5 shs Imperial at 260 per share, b 3.
1 sh Imperial at 260 per share.
5 shs Exchequer at 30 per share.
5 shs Bullion at 135 per share, s 3.
10 shs Bullion at 135 per share.
20 shs Sierra Nevada at 21 per share.
85 shs Sierra Nevada at 21½ per share.
5 shs Sierra Nevada at 21½ per share, b 3.
20 shs Sierra Nevada at 22 per share, b 30.
90 shs Sierra Nevada at 21¼ per share.
20 shs Sierra Nevada at 21½ per share, h 30.
50 shs Sierra Nevada at 19 per share, s 30.
10 shs Sierra Nevada at 19½ per share, s 30.
3 shs Empire M. & M. Co. at 380 per share.
20 shs N. American, Ex Sam, at 19 per sh.
30 shs N. American, Ex Sam, at 20 per sh.
13 shs Confidence at 125 per share.
3 shs Cal. Steam Nav. Co. at 85½ per cent.
1 shs Cal. Steam Nav. Co. at 83 per ct, r w.
$ 2,000 Legal Tender Notes at 72¼ per cent.

AFTERNOON SESSION.

8 shs Daney at 50 per foot.
100 shs Daney at 54 per foot.
140 shs Daney at 55 per foot.
40 shs Daney at 53 per foot.
20 shs Daney at 52 per foot.
20 shs Daney at 51 per foot.
10 shs Daney at 50 per share.
2 shs Daney at 51 per share.
2 shs Daney at 52½ per foot.
4 shs Daney at 50 per foot, s 3.
4 shs Alpha, C. H, at 1975 per foot.
5 shs Belcher at 9.0 per foot, h 3.
1 sh Yellow Jacket at 1450 per foot.
8 shs Gould & Curry at 1300 per foot, s 3.
12 shs Ophir at 380 per foot.
24 shs Ophir at 385 per foot.
12 shs Ophir at 389 per foot, r w.
12 shs Ophir at 385 per foot, s 3.
10 shs Overman at 190 per foot.
12 shs Crown Point at 1150 per foot.
12 shs Crown Point at 1155 per foot.
1 sh Uncle Sam at 192½ per foot.
1 sh Uncle Sam at 195 per foot.
3 shs Uncle Sam at 190 per foot.
1 shs Segregated Belcher at 25 per ft, s 30.
14 shs Potosi at 262½ per foot.
5 shs Imperial at 263 per share.
16 shs Imperial at 265 per share.
10 shs Imperial at 265 per share, s 20.
10 shs Imperial at 266 per share
10 shs Imperial at 267½ per share, 30 d.
10 shs Imperial at 267½ per share, h 10.

5 shs Imperial at 2⅜ per share, b 10.
15 shs Imperial at 2⅜ per share, b 3.
10 shs Burning Moscow at 21 per share
20 shs Sierra Nevada at 21¼ at per share.
10 shs Sierra Nevada at 21½ per share.
100 shs Sierra Nevada at 21 per share
60 shs N. American, Ex Sam. at 30 per sh.
17 shs Confidence at 125 per share.
10 shs Lady Bryan at 3 per share.
Amount of sales $143,663 00

Tuesday, September 12.

35 shs Ophir at 390 per foot, b 3.
35 shs Ophir at 390 per foot, s 3.
135 shs Ophir at 390 per share.
12 shs Ophir at 390½ per foot.
24 shs Ophir at 391 per foot.
10 shs Potosi at 415 per foot.
6 shs Potosi at 417½ per foot, s 3.
30 shs Potosi at 418 per share.
18 shs Hale & Norcross at 501 per foot.
6 shs Hale & Norcross at 495 per foot.
5 shs Overman at 185 per foot.
2 shs Overman at 186 per foot.
12 shs Overman at 175 per share.
40 shs Daney at 43 per foot.
160 shs Daney at 41 per foot.
40 shs Daney at 40 per foot.
20 shs Daney at 42 per foot.
5 shs Yellow Jacket at 1410 per foot.
2 shs Yellow Jacket at 1420 per foot, s 30.
1 sh Yellow Jacket at 1440 per foot, s 3
2 shs Yellow Jacket at 1445 per foot, r w.
12 shs Crown Point at 1150 per foot.
4 shs Alpha, G. H., at 2025 per foot,
1 sh Uncle Sam at 185 per foot
5 shs Uncle Sam at 190 per foot, r w.
5 shs Uncle Sam at 190 per foot, b 5.
2 shs Uncle Sam at 180 per foot, b 10.
6 shs Belcher at 933 per foot.
1 sh Savage at 1200 per foot, s 10.
21 shs Golden Rule at 10 per share.
70 shs Sierra Nevada at 23 per share, b 5.
15 shs Sierra Nevada at 24 per share.
10 shs Sierra Nevada at 23 per share, b 10.
30 shs Sierra Nevada at 21 per share, b 30.
10 shs Sierra Nevada at 32 per share, s 3.
20 shs Sierra Nevada at 22 per share.
10 shs Sierra Nevada at 22 per sh, b 5.
50 shs Sierra Nevada at 20 per share, s 30.
40 shs Sierra Nevada at 22 per share, b30.
30 shs Sierra Nevada at 21 per share, s 30.
60 shs Sierra Nevada at 21½ per share.
10 shs Sierra Nevada at 21½ per share, r w
5 shs Sierra Nevada at 21 per share, s 3.
5 shs Confidence at 124 per share.
15 shs Bullion at 135 per share.
15 shs Nevada, J. G., at 17 per share.
2 shs Empire Mill & M. Co. at 37, r w.
18 shs Imperial at 266 per share.
10 shs Imperial at 265 per share.
5 shs Imperial at 264 per share.
25 shs Imperial at 262 per share.
60 shs Exchequer at 30 per share.
25 shs N. American, Ex Sam. at 17 per sh.

AFTERNOON SESSION.

1 sh Savage at 1275 per foot.
1 sh Savage at 1275 per foot.
1 sh Savage at 1280 per foot.
1 sh Savage at 1310 per foot.
40 shs Daney at 41 per foot, s 3.
40 shs Daney at 44 per foot.
40 shs Daney at 45 per foot.
20 shs Daney at 46 per foot.
81 shs Daney at 42 per share.
20 shs Daney at 47¾ per foot.
160 shs Daney at 48 per foot.
80 shs Daney at 50 per foot.
8 shs Yellow Jacket at 1440 per foot.
1 sh Yellow Jacket at 1450 per foot.
1 sh Yellow Jacket at 1460 per foot.
4 shs Yellow Jacket at 1425 per foot.
4 shs Alpha, G. H. at 2060 per foot.
31 shs Potosi at 415 per foot.
10 shs Potosi at 416 per foot, s 3.
2 shs Potosi at 417 per foot.
14 shs Hale & Norcross at 500 per foot.
8 shs Chollar at 455 per foot.
20 shs Chollar at 451 per foot.
40 shs Chollar at 450 per foot, s 3.
60 shs Ophir at 390 per foot, s 10.
6 shs Belcher at 910 per foot, s 10.
4 shs Uncle Sam at 175 per foot.
6 shs Imperial at 263 per share.
5 sh Imperial at 261 per share.
5 shs Imperial at 265 per share, s 30.
1 sh Imperial at 264 per share.
1 sh Imperial at 262 per share.
20 shs Imperial at 262½ per share.
50 shs Sierra Nevada at 21 per share.
20 shs Sierra Nevada at 21 per share, b 5.
6 shs Exchequer at 30 per share.
5 shs Nevada, J. G. at 27½ per share.
5 shs Nevada, J. G., at 21 per share.
2 shs Empire Mill & Mining Co. at 376.
2 shs Empire M & M Co at 370 per share.
1 sh Empire M. & M. Co. at 365 per share.
1 sh Empire M & M Co. at 360 per share.
3 shs Empire M & M Co. at 355 per share.
1 sh Empire M & M Co. at 352½ per share.
5 shs Empire M & M Co. at 350 per share.
1 sh Empire M & M Co. at 353 per sh, r w.
1 sh Empire M & M Co. at 352½ p. sh, r w.
39 shs Bullion at 140 per share.
5 shs Bullion at 137½ per share.
3 shs Bullion at 138 per share.
5 shs Confidence at 122½ per share.
5 shs Golden Rule at 12½ per share.

AFTERNOON SESSION.

120 shs Ophir at 420 per foot, b 30.
120 shs Ophir at 425 per foot, 30 d.
12 shs Ophir at 415 per foot, s 3.
14 shs Ophir at 420 per share.
120 shs Ophir at 415 per share, s 30.
120 shs Ophir at 400 per share, s 60.
60 shs Ophir at 430 per share, s 3.
12 shs Ophir at 430 per share.
24 shs Ophir at 427½ per share.
60 shs Ophir at 440 per share, b 30.
6 shs Belcher at 915 per foot.
3 shs Belcher at 915 per foot, s 10.
12 shs Chollar at 465 per foot.
5 shs Yellow Jacket at 1430 per foot, s 30.
1 sh Yellow Jacket at 1405 per foot, s 30.
8 shs Crown Point at 1150 per foot.
20 shs Bacon, G. H. at 250 per foot.
30 shs Imperial at 260 per share.
5 shs Imperial at 258 per share.
5 shs Nevada, J. G., at 18½ per share.
5 shs Nevada, J. G., at 18½ per share.
10 shs Nevada, J. G., at 15 per share, s 30.
20 shs Nevada, J. G., at 18 per share.
5 shs Nevada, J. G., at 19 per share.
5 shs Exchequer at 35 per share.
3 shs Empire M & M Co. at 360 per share.
2 shs Empire M & M Co. at 355 per share.
1 sh Empire M & M Co. at 347½ per sh.
3 shs Empire M & M Co. at 345 per sh, s 3.
3 shs Empire M & M Co. at 340 per sh s 3.
10 shs Empire M & M Co. at 340 per share.
10 shs Sierra Nevada at 20½ per share.
5 shs Sierra Nevada at at 20 per share.
20 shs Sierra Nevada at 21 per share, b 10.
5 shs Bullion at 142½ per share.
Amount of sales.....$135,618 00

Wednesday, September 13.

20 shs Daney at 50 per foot.
24 shs Ophir at 400 per foot.
180 shs Ophir at 405 per foot.
36 shs Ophir at 407 per foot, r w.
24 shs Ophir at 407½ per foot.
20 shs Potosi at 420 per foot.
3 shs Belcher at 920 per foot.
3 shs Belcher at 920 per foot, b 3.
3 shs Belcher at 920 per foot, b 10.
9 shs Belcher at 915 per foot.
3 shs Belcher at 915 per foot, r w.
3 shs Belcher at 971½ per foot, b 30.
6 shs Belcher at 915 per foot, s 3.
4 shs Crown Point at 1140 per foot.
8 shs Crown Point at 1155 per foot.
16 shs Crown Point at 1150 per foot, s 3.
4 shs Crown Point at 1152½ per foot.
4 shs Chollar at 450 per foot.
40 shs Chollar at 454 per foot, s 3.
40 shs Chollar at 457½ per foot, b 10.
4 shs Savage at 1400 per foot.
40 shs Segregated Belcher at 25 per ft, s 30.
1 shs Uncle Sam at 180 per share.
5 shs Imperial at 262½ per share, s 30.
20 shs Imperial at 265 per share.
5 shs Imperial at 263 per share, s 30.
5 shs Imperial at 261 per share, s 30.
5 shs Imperial at 265 per share, s 30.
1 sh Imperial at 264 per share.
1 sh Imperial at 262 per share.
20 shs Imperial at 262½ per share.
50 shs Sierra Nevada at 21 per share.
20 shs Sierra Nevada at 21 per share, b 5.
6 shs Exchequer at 35 per share.
5 shs Nevada, J. G., at 18 per share, s 3.
5 shs Nevada (J. G.) at 20 per share.
Amount of sales.....$153,212 00

Wednesday, September 13.

20 shs Daney at 50 per foot.
24 shs Ophir at 400 per foot.
180 shs Ophir at 405 per foot.
36 shs Ophir at 407 per foot, r w.
24 shs Ophir at 407½ per foot.
20 shs Potosi at 420 per foot.
3 shs Belcher at 920 per foot.
3 shs Belcher at 920 per foot, b 3.
3 shs Belcher at 920 per foot, b 10.
9 shs Belcher at 915 per foot.
3 shs Belcher at 915 per foot, r w.
3 shs Belcher at 971½ per foot, b 30.
6 shs Belcher at 915 per foot, s 3.
4 shs Crown Point at 1140 per foot.
8 shs Crown Point at 1155 per foot.
16 shs Crown Point at 1150 per foot, s 3.
4 shs Crown Point at 1152½ per foot.
4 shs Chollar at 450 per foot.
40 shs Chollar at 454 per foot, s 3.
40 shs Chollar at 457½ per foot, b 10.
4 shs Savage at 1400 per foot.
40 shs Segregated Belcher at 25 per ft, s 30.
1 shs Uncle Sam at 180 per share.
5 shs Imperial at 262½ per share, s 30.
20 shs Imperial at 265 per share.
5 shs Imperial at 263 per share, s 30.
5 shs Imperial at 261 per share, s 30.
5 shs Imperial at 265 per share, s 30.
1 sh Imperial at 264 per share.
1 sh Imperial at 262 per share.
20 shs Imperial at 262½ per share.
50 shs Sierra Nevada at 21 per share.
20 shs Sierra Nevada at 21 per share, b 5.
6 shs Exchequer at 35 per share.
5 shs Nevada, J. G., at 18 per share, s 3.
5 shs Nevada (J. G.) at 20 per share.
Amount of sales.....$153,212 00

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, September 16th, 1865.

There is no new feature apparent in the condition of the money market. Capital seeking investment and for loan purposes is as plentiful as ever, and the rates of interest are tending downward. Bank accommodations rule for the most part at 1½ ₱ cent. per month; but loans upon bond and mortgage are made at 1 ₱ cent. per month, and we are apprised of certain negotiations, of an exceptional character, based upon prime collaterals, at 10 ₱ cent. per annum. Very little money is at present required for mercantile purposes, although some improvement in trade may be noted, and unexceptable names can be placed at 1@1½ ₱ cent. per month.

Receipts of treasure from domestic sources, since Saturday last, amounted to $1,200,000, making an aggregate of $2,100,000 thus far during the current month. The Branch Mint in this city, since the 1st inst., has taken about $1,150,000 for coinage.

There is a small supply of bullion on the market, and up to the present moment an active demand for shipment. Gold bars have been sold at 836@840, which was the range of prices yesterday. Silver bars are selling at ¼ ₱ cent. premium to 1 ₱ cent. discount for round lots.

The mining share market has exhibited more life this week, and although the prices of some stocks have been rather irregular, and no important advance may be noted in others, the aggregate transactions show a large increase over last week, and a number of shares are firmly held at the close at enhanced rates. City stocks, with scarcely an exception, continue in favor at higher figures, and such as are paying dividends are sought for by parties desiring to earn current rates of interest for their idle capital. There has been also a speculative demand for some of these shares, but to the easy condition of the money market is the late rise mainly attributable.

Pacific Insurance has obtained decided favor recently, and at the close is inquired for at $185—an advance of $35 per share during the past thirty days. San Francisco Gas has also materially improved, and is in demand at $99 bid, $100 asked. Spring Valley Water is quotable at about $51 bid, and California Steam Navigation was sold at $840, closing at $820 asked, ex-dividend of $20 per share, paid yesterday. North Beach and Mission Railroad is in some favor at $41 per share bid, and Omnibus Railroad is inquired for at $39½.

Alpha has attracted more attention, and small sales were made, advancing from $1.950 to $2,060, and closing at $2,075 bid. The second week's crushing of the company's new mill realized some $20,000 from about $350 tons of ore, and the same result is anticipated this week. The product of the mine is averaging 75@80 tons of ore per day, mainly from the 350-feet level. The drift running north from the 70 feet incline at a depth of 590 feet, to intersect the main shaft, continues in a body of fine ore, some 30 feet in width, and arrangements will soon be made to hoist considerable ore from this part of the mine.

Yellow Jacket has been quite active, and some 100 feet changed hands, receding from $1.460 to $1,400, rallying to $1,440, declining to $1,390, then selling at $1,335, and closing at $1,360@1,340. During the week ending 3d inst., 1,250 tons of second-class ore were extracted from the mine, and 2,237 tons of same class were reduced, yielding $69,759,36, an average of $31.18 per ton. The Morgan Mill is in complete running order, capable of working and amalgamating 90 tons of ore per day. The machinery on the Princess shaft, at the north end of the mine, will, it is thought, materially reduce working expenses, as well as assist in exploring for new bodies of ore. The south shaft is now down 340 feet, and the machinery of the Best & Belcher Co. has been purchased, at a cost of $20,000. An additional expenditure of some $18,000 will be required in its removal, replacing buildings, etc.

Gould & Curry rose from $1,290 to $1,340, and is now in some request at $1,300 bid, $1,350 asked. In addition to the company's mill, the Hoosier State, Booth's, and Bassett's mills are now employed, giving a reduction capacity in all of some 150 tons of ore per day. The average yield of the mine exceeds that amount, and receipts of bullion this month are likely to compare favorably with those of August.

Savage receded from $1,220 to $1,200, rose to $1,310, then sold at $1,220, and was dealt in yesterday at $1,240. The drift in the lower level has reached the air shaft from the fourth station above, and is said to disclose a promising deposit of ore. The yield of the mine now exceeds an average of 100 tons per day, and receipts of bullion are expected to show an increase this month.

Crown Point rose from $1,120 to $1,150, fell to $1,125, and sold yesterday at $1.120@1,125, within which range some 40 feet changed hands. The company's two mills are kept constantly at work upon ore mainly taken from the 260-feet level, and the lower level drift is now in about 75 feet from the shaft.

Belcher has been moderately active, within a range of $895@925, closing at $917½.

Ophir has attracted considerable attention, and 262 feet were sold, advancing from $365 to $440, buyer 30, receding to $380, then selling at $387@392½, and closing yesterday at $405. We can learn of no new developments in this mine; but are informed that the suit of the Moscow company has been postponed until November. From the Ophir north mine and the old dump pile, some 20 tons of ore are now daily sent to the two mills. A second shipment of bullion has been received this month, making in all about $25,000 thus far.

Chollar fell from $460, buyer 10, to $440, and closes at $450, ass't delinquent, some 100 feet in all changing hands. Potosi was dealt in to the extent of 85 feet, receding from $420 to $405, closing at $450 ass't delinquent. The ore extracted from these two mines last month amounted to 3,600 tons, and the net product, after paying for its reduction, amounted to $48,500 ($13.50 per ton), less $17,500 for mining, hoisting, etc., showing a clear profit of about $8.60 per ton over and above all expenses.

Empire Mill and Mining Co. has been in less favor, and some 62 shares were sold, declining from $380 to $340 per share, and closing at about $355 bid. The receipts of bullion last month exceeded $50,000, the product mainly of low-grade ores taken from the upper levels. After the disbursement of some $25,000 for winter supplies, litigation, etc., a balance of about $6,000 was left in the treasury of the company on the 1st inst. The yield of the mine will be materially increased as soon as arrangements can be perfected to hoist from the lower level through the main shaft. Bacon was sold at $250 per share, and is now held at $230. Hale & Norcross was dealt in to the extent of 89 feet, within a range of $520@490, closing at $505.

Imperial is still a feature of the market, and more than 1,000 shares were sold, advancing from $257 to $270, ex-dividend, receding to $254, and changing hands yesterday at $252@253. The sixth-level drift, 175 feet from the shaft across the vein, now discloses a body of fine ore, some 40 feet in width, and the east wall of the ledge is supposed to be at least 40 feet distant yet. The reserve of ore at the Rock Point Mill will be increased to 3,000 tons this month. A report will be presented to the stockholders to-day for the quarter ending August 31st. During that period, 7,187 tons of ore were treated at the company's mills and 104⅜ tons at Dall's mill, producing in the aggregate $327,031.47, or an average of $45.45 per ton. Receipts from other sources, and the balance on hand at the end of previous quarter, amounted to $7,268. The disbursements have been as follows: Milling expenses, $87,885.97; mining, $42,956.35; assaying, treasure freight, and Federal tax, $7,240.24; property purchased and permanent improvements made, $10,021.21; general and legal expense account, $33,600 15; Superintendent's balance, $59.21; dividends paid, July and August, $80,000; discount account, $1,662.03; cash on hand, August 31st, $70,875.66. After the payment of a dividend of $40,000 on the 10th instant, a balance of $30,875.66 remained in the treasury of the company. This is a flattering exhibit. The first "clean-up" this month amounted to $17,500, showing a better average yield per ton than in the corresponding period of August.

Sierra Nevada has been active, at fluctuating rates, and some 1,500 shares were sold, declining to $19, rising to $23, and closing at $21. An assessment of $7.50 per share was levied on the 4th inst. Bullion rose from $135 to $140, fell to $137, and closes at $132. An assessment of $16 per share was levied on the 10th inst. Daney has been well maintained, and some 600 feet were sold, rising from $40 to $55, dropping to $42, rallying to $50, receding to $42 again, and closing yesterday at $44.

Burning Moscow was dealt in at $20@23, closing at $22. North American fell to $15, rose to $20, and sold yesterday at $17. Nevada (J. G.) fell from $27½ to $15, seller 30, rallied to $19, and closed at $23. Kentuck was sold at $65, and Segregated Crown Point at $25.

The aggregate sales of stocks since Saturday last amounted to $822,056.

Fluctuations in Leading Mining Shares for the past Six Months.

Name of Company.	March 20th.	April 1st.	April 10th.	April 20th.	May 1st.	May 10th.	May 20th	June 1st	June 10th.	June 20th.	July 1st.	July 10th.	July 20th.	July 30th.	August 10th.	August 20th.	Sept. 1st.	Sept. 10th.
Gould & Curry.....per ft.	1,900	2,010	2,015	1,375	1,800	1,480	1,660	1,525	1,625	1,615	1,750	1,750	1,730	1,500	1,500	1,475	1,135	1,300
Ophir.....	450	530	590	560	500	490	850	485	480	500	495	485	630	425	400	390	280	385
Savage.....	1,750	2,000	2,025	2,020	1,600	1,375	1,300	1,190	1,190	1,425	1,375	1,400	1,340	1,175	1,224	1,300	1,300	1,225
Potosi.....	900	1,130	915	870	790	725	537	202	312	467	372	350	395	480	455	460	410	420
Chollar.....	700	705	912	830	650	425	375	215	317	473	345	370	410	500	490	500	475	425
Hale & Norcross.....	350	472	625	600	450	400	455	440	400	650	560	555	570	525	520	510	480	529
Sheba.....	21	23	....	30	28	....	20	13	15	18	....	....	....	....	....	....	....	....
Daney.....	25	16	....	....	20	....	22	15	15	15	14	....	14	....	50	70	43	40
Utah.....	25	13	17	16	10	9	7	5	4	3	7	8	6	....	....	....	....	....
Burning Moscow.....	34	37	38	50	47	41	45	40	46	57	34	29	25	29	25	34	23	20
Pride of the West.....	5	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bullion.....	110	110	135	151	150	155	152	135	130	165	140	175	180	175	157	175	160	....
Real del Monte.....	16	12	14	....	....	....	....	12	10	....	....	....	....	....	....	....	....	....
El Dorado.....	5	6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Overman.....	300	305	325	300	215	240	180	115	100	120	180	312	305	200	241	213	195	135
Sierra Nevada.....	23	18	26	22	16	17	14	13	12	14	15	10	14	23	20	18	19	22
Yellow Jacket.....	2,650	2,520	2,500	2,400	2,070	1,515	1,550	1,400	1,320	1,150	1,030	1,015	1,105	1,220	1,350	1,355	1,420	1,400
White & Murphy.....	....	25	15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sides.....	50	25	....	....	....	....	....	....	....	....	....	....	75	60	....	....	....	....
Uncle Sam.....	325	330	320	285	250	245	200	115	100	155	185	345	307	190	240	215	193	185
Ballie.....	22	20	15	....	....	....	....	....	....	....	....	....	20	16	....	....	....	....
North American.....	41	32	34	....	30	25	25	30	18	25	28	35	35	30	29	24	16	....
Baltimore American.....	20	21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Melones.....	5	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Antelope.....	15	20	23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Napoleon	55	50	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sacramento.....	5	8	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Utah.....	5	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lady Bryan.....	8	11	....	....	....	....	....	....	....	....	....	6	6	....	6	3	....	....
Imperial.....	192	200	213	206	285	232	235	139	175	217	238	245	218	227	230	265	252	25
Crown Point.....	1,450	1,400	1,300	1,170	1,000	1,000	885	725	780	750	765	861	910	905	900	1,250	1,120	1,115
Belcher.....	1,600	1,600	1,800	1,620	1,210	1,200	1,105	925	620	695	780	775	850	805	860	865	875	900
Alpha.....	....	....	....	....	....	....	....	....	....	....	....	....	1,450	1,400	1,470	....	1,425	1,500	1,925	1,950

Thursday, September 14.

20 shs Chollar at 450 per foot.
4 shs Chollar at 440 per foot.
16 shs Hale & Norcross at 500 per foot
4 shs Hale & Norcross at 495 per foot, s 3.
2 shs Hale & Norcross at 495 per foot.
4 shs Crown Point at 1140 per foot.
8 shs Crown Point at 1130 per foot.
4 shs Crown Point at 1120 per foot.
4 shs Crown Point at 1125 per foot,
60 shs Ophir at 400 per foot.
24 shs Ophir at 395 per foot.
60 shs Ophir at 395 per foot, s 3.
24 shs Ophir at 410 per foot, b 30.
24 shs Ophir at 405 per foot, b 30.
120 shs Ophir at 300 per foot, s 30.
2 shs Ophir at 380 per foot.
40 shs Ophir at 43 per foot.
80 shs Daney at 42 per foot, b 3.
20 shs Daney at 42 per foot, b 3.
40 shs Daney at 43 per share, s 10.
20 shs Daney at 44 per share.
6 shs Belcher at 920 per foot.
9 shs Belcher at 925 per foot, b 10.
4 shs Gould & Curry at 13.25 per foot.
12 shs Gould & Curry at 1340 per foot.
2 shs Potosi at 410 per foot.
5 shs Potosi at 405 per foot.
1 sh Yellow Jacket at 1400 per foot.
1 sh Yellow Jacket at 1400 per foot, r w.
1 sh Yellow Jacket at 1390 per foot.
1 sh Yellow Jacket at 1390 per foot, r w.
2 shs Yellow Jacket at 1385 per foot,
2 shs Overman at 186 per foot, r w.
10 shs De Soto at 6 per share.
21 shs De Soto at 5¾ per share.
1 sh De Soto at 5 per share.
32 shs Imperial at 260 per share.
45 shs Imperial at 259@268 per share.
50 shs Imperial at 259⅜@258¾ per share.
50 shs Burning Moscow at 22½ per share.
15 shs Burning Moscow at 22½ per sh, s 3.
48 shs Burning Moscow at 23 per share.
20 shs Exchequer at 35 per share.
10 shs Exchequer, at 32½ per share, b 3.
40 shs Exchequer at 30 per share.
30 shs Nevada, J. G., at 18 per share.
2 shs Confidence at 121½ per share.
5 shs Confidence at 122½ per share.
3 shs Confidence at 123 per share.
5 shs Confidence at 122½ per share.
10 shs Sierra Nevada at 21 per share.
15 shs Sierra Nevada at 20½ per share.
5 shs Bullion at 137½ per share.
54 shs Spring Valley W W Co at 51 per cent

AFTERNOON SESSION.

48 shs Ophir at 370 per foot.
12 shs Ophir at 380 per foot.
12 shs Ophir at 390 per foot, b 30.
48 shs Ophir at 385 per foot.
40 shs Ophir at 385 per foot, s 3.
12 shs Ophir at 387½ per foot, b 5.
1 sh Yellow Jacket at 1380 per foot.
1 sh Yellow Jacket at 1375 per foot, s 10.
2 shs Yellow Jacket at 1375 per foot, r w.
3 shs Yellow Jacket at 1360 per foot, s 10.
1 sh Yellow Jacket at 1380 per foot, b 3.
60 shs Daney at 46 per foot.
20 shs Daney at 46 per foot, s 3.
200 shs Daney at 45 per foot.
40 shs Daney at 45 per foot, s 30.
40 shs Daney at 44 per share.
2 shs Savage at 1225@1220 per foot.
8 shs Overman at 185@183 per share.
20 shs Chollar at 450 per foot.
3 shs Belcher at 920 per foot, b 10.
50 shs Burning Moscow at 22@22½ per sh.
37 shs Imperial at 257@255 per share.
5 shs Imperial at 254 per share, s 3.
4 shs Empire M. & M. Co. at 335 per sh, b 3.
120 shs Exchequer at 30 per share, b 3.
10 shs Nevada (J. G.) at 18 per share, s 3.
Amount of sales.....$132,162 00

Friday, September 15.

42 shs Hale & Norcross at 500 per foot.
8 shs Confidence at 125 per share.
12 shs Ophir at 380 per foot, s 10.
192 shs Ophir at 385@392½ per foot.
29 shs Imperial at 265 per share.
30 shs Imperial at 252 per share, s 30.
9 shs Imperial at 254@252 per share.
14 shs Yellow Jacket at 1335@1340 per foot.
13 shs Yellow Jacket at 1360@1350 pr foot.
5 shs Yellow Jacket at 1345 per foot.
8 shs Gould & Curry at 1325 per foot.
14 shs Empire M & M Co. 360@367½ per sh.
132 shs Potosi at 447@450 per foot.
4 shs Chollar at 450 per foot, s 30.
32 shs Daney at 45@46 per share.
70 shs Burning Moscow at 21 per share.
3 shs Savage at 1230@1240 per foot.
125 shs Sierra Nevada at 21 per share.
9 shs Belcher at 915@920 per foot.
20 shs Mineral, J. G., at 22@23 per foot.
1 sh Overman at 180 per foot.

AFTERNOON SESSION.

2 shs Yellow Jacket at 1345 per foot.
1 sh Savage at 1240 per foot.
72 shs Ophir at 397½@4 5 per foot.
15 shs Imperial at 250 per share, s 30.
40 shs Imperial at 253@252 per share.
9 shs Belcher at 917½ per foot.
29 shs Bullion at 136@132½ per share.
5 shs Potosi at 450 per foot.
8 shs Hale & Norcross at 505 per foot.
10 shs Burning Moscow at 22 per share.
8 shs Chollar at 450 per foot.
20 shs Daney at 44 per foot.
Amount of sales.....$128,861 00

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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San Francisco:
Saturday Morning, Sept. 16, 1865.

IMPORTANT COAL DISCOVERY.

The *British Colonist*, published at Victoria, reports an important coal discovery as having recently been made at or near the Queen Charlotte Coal Company's mine. A quantity of this coal has been tested at the foundry of Messrs. Spratt & Kriemler, at Victoria, with the most satisfactory result. About half a ton of iron was smelted and the coal was pronounced by the workmen to be of a most superior character for the purpose, and equal to the celebrated Pennsylvania coal, the heat-giving properties being intense, with an absence of sulphuric gasses which renders the ore softer and purer. This coal, the *Colonist* thinks, is likely to be held in high favor in the foundries and smelting works on this coast. An analysis of the coal has been made by Mr. F. Claudet, of the Government Assay Office at New Westminster, with the following results:

Moisture	5.10
Volatile combustible matter	17.27
Carbon	71.20
Ashes	6.43
	100.00
Specific gravity	1.46

This analysis is much more favorable than any we have yet seen of coals produced on the Pacific coast, and makes quite an approximation towards a true anthracite. A great point gained in this coal is the entire absence of sulphur and the small quantity of moisture present. The coals on this coast, heretofore discovered, contain so much sulphur as to render them useless for smelting purposes, except in reverberatory furnaces—a class of furnace requiring such an excess of fuel as to render them inapplicable for smelting, at anything like the present cost of fuel in California.

All the California coals are of the character known as lignites, the chief characteristic of which is the notable quantity of water which they contain, and which they will not part with even after a free exposure to the highest natural atmosphere of this climate. As a consequence, this moisture must be evaporated at the expense of their combustible constituents. Lignites thus contain from twelve to twenty per cent. of moisture. There has probably been no coal hitherto produced on this coast, which contains less than fifteen per cent.; the newly discovered Victoria coal, however, contains but a small fraction over five per cent. The anthracites generally employed for smelting purposes in Europe are entirely free from moisture, after being submitted for a short time to the free action of the atmosphere.

In order that the reader may the better judge of the value of this new coal, we compare it with several of the European coals used for smelting purposes; also with the Pennsylvania anthracite—and the lignite near Virginia City. We have no analysis at hand of any of our California coals, and indeed we are not aware that any have been made:

SWANSEA, ENGLAND.

Carbon	90.00
Combustible Gasses	7.70
Ashes	1.72

ERNANI, SPAIN.

Carbon	70.00
Combustible Gasses	.00
Ashes	24.00

YSERE, FRANCE.

Carbon	91.90
Combustible Gasses	6 30
Ashes	2.70

PENNSYLVANIA ANTHRACITE.

Carbon	86@88
Combustible Gasses	8@ 8
Ashes	4@ 6

NEVADA, CALIFORNIA

Carbon	39.76
Combustible Gasses	29.14
Ashes	11.14
Moisture	19.65

LOCALITY, UNKNOWN.

Carbon	97.25
Silica, Alumina, Oxyd of Iron } Ashes	2.75

We find the last analysis on the authority of Hericart de Thury, from the *Journal des Mines*, without any mention of the locality from whence it came. This omission is much to be regretted from the fact that the coal is very remarkable in its character, and the fact that, according to this analysis, it is entirely destitute of volatile matter, and contains the largest amount of carbon of any coal of which we have been able to find any analysis (and we have a very large number of analyses before us as we write). The largest amount of carbon in any English coal is ninety-one per cent.; and eighty-eight per cent. is the highest of the Pennsylvania coals. In Percy's Metallurgy, page 81, that author states that oxygen and hydrogen are *never* entirely separated from coal; but are *always* present to a sensible extent. The analysis of Thury would seem to prove that coal is found in France which has parted with *all* its volatile matter, and presenting 97.25 per cent. of carbon, the nearest approximation to the diamond of any known substance.

Geologists apply the term lignite to those carbonaceous minerals which occur in the latest and above the true coal measures. It is sometimes very difficult to distinguish between the lignites and the true bituminous; as it is also between the latter and the true anthracite. In fact the one runs into the other, by the most imperceptible degrees. Whatever opinion may exist as to the mode of the accumulation of coal—whether from deposits like peat, from drift wood or from wood *in situ*—there can scarcely exist a doubt as to its being the product of the gradual decomposition of vegetable matter under certain special conditions. All coal was no doubt originally lignite, the earlier deposits of which have been gradually changed to bituminous, and from that to anthracite. Hence the difficulty of drawing a dividing line between them.

THE SINGER SEWING MACHINE.—Without contradicting the volumes of extravagant praises with which other leading sewing machines are belabored, it must candidly be admitted that the Singer is all that a prudent and elegant housewife could desire, while to the manufacturer it has superiorities over all other inventions. These are sufficient reasons to justify the immense popularity which these machines attain wherever they are introduced. Mr. Broderick, the agent of the Company in this city, is a worthy gentleman, a mechanic, and an active member of the Institute. Be sure and examine the Singer machines.

LANCHA PLANA COPPER MINING COMPANY.—At the annual meeting of the Lancha Plana Copper Mining Company, held on Friday, Sept. 8th, the following gentlemen were elected Trustees for the ensuing year. O. D. Lambard, J. Larned, J. D. Lord, Geo. A. Conrad, and C. H. Huffman. And at a meeting of the Trustees, held the same day, O. D. Lambard, Esq., was re-elected President; J. Fuller, Secretary and Treasurer, and C. H. Huffman, Superintendent. The mine is reported to be in a very promising condition.

THE London correspondent of the Boston *Commonwealth* says that Lord Brougham is broken down and in his dotage. He walks with steps two or three inches long, and has forgotten the names of his friends.

[From the DAILY FAIR PRESS of Saturday, Sept. 9.]

END OF THE FAIR.

The affairs of men, in the reckoning of events, relate only to time. In obedience to this law, the Fifth Industrial Exhibition of the Mechanics' Institute, is about drawing to a close. After the bell has struck to-night, and the band discoursed its familiar "Home, Sweet Home," for the last time, the immense concourse of visitors will take their departure, the lights will be extinguished, and none left but the faithful guard, to keep watch over the articles which have contributed so largely to general instruction and entertainment. After the goods have been removed, the spacious Pavilion with its wide-spreading dome, reminding one of the storied St. Paul's, will be torn down, and its timbers borne off, that the grounds which they occupied may again revert to the purposes for which they were originally set aside and dedicated.

There is little doubt but the recollections of this Fair will endure for years. They have been delightful, (as we are led to judge from an almost constant attendance) to both visitors and exhibitors. The worthy President of the Institute has exerted his best energies, with an affability of manner that did him great credit, to afford complete satisfaction. The excellent Treasurer has never been remiss in duty, nor in the slightest degree untrue to his trust. In fine, the Executive Committee, as a unit, so far as we are able to learn, have discharged the delicate and difficult responsibilities entrusted to them, in a manner to give general satisfaction. The energetic Superintendent, from the beginning, has manifested an untiring zeal that rendered him almost ubiquitous in the discharge of duty. His adroit management harmonized all asperities and silenced all inconsiderate growlings. The Clerks have manifested a praise-worthy fidelity at their respective posts. In fact all have been vigilant, active, attentive, polite, and accommodating. In our editorial walks we have had, on numerous occasions, to tax their patience, and it gives us pleasure to bear witness to their uniform good nature and generosity.

It is a fact, perhaps, that the Fair, as an Exhibition of the aggregate inventive genius, manufacturing ability, agricultural productions, and mechanical skill of the State, fell short of what it might and ought to have been. There are several causes for this result. California has recently passed through two consecutive years of drouth, which not only injured the arable qualities of her soil, but impoverished many of her most enterprising citizens. The State Fair always interferes more or less with this; and besides, the present season, there were two or more District Fairs, which kept many articles away that might otherwise have been found in the Pavilion.

In taking adieu of our friends and patrons, it may not be out of place to say, that our own humble abilities have been exerted to the utmost to give *eclat* to the Exhibition. We have published a daily paper in the Pavilion, tens of thousands of copies of which were gratuitously distributed among visitors. Our advertisers have been treated with as much liberality as it was possible to extend without too great a pecuniary sacrifice.

The large and elegant cabinet of minerals, fossils and curiosities, in the Fair, were sent in response to our solicitation, from all portions of the State, and exhibited under the especial auspices of the proprietors of the MINING and SCIENTIFIC PRESS. It is their cabinet, in trust; a statement which is by no means intended to rob Capt. AIKEN of the proud distinction of having arranged and classified that beautiful collection of minerals, ores, sulphurets, etc., in the glass show-cases, which have been so universally admired, and are a source of just pride to the State; nor in any manner to deduct from the high praise due his patient attendance, intelligent explanations and courteous bearing towards inquisitively curious visitors. Our belief is a conviction and our hope a sentiment, that the Committee of general award will not place too cheap an estimate upon either the merits of his collection, or the value of his personal services.

To those contributors who nobly responded to our request, when informed that the Executive Committee had granted us the space for exhibition, and the care of the minerals forwarded to us, we return our sincere thanks, trusting that the grand display in this department will hereafter be repeated as a regular feature of all future fairs.

In this volume, in articles under the heading of "Descriptive Catalogue," [all of which were also issued by us in pamphlet form,] we have striven to notice as fully as practical the merits of everything exhibited in the Pavilion. Wherever we have failed to do so, it has been for lack of information from the exhibitors.

And now, gentle readers of the DAILY FAIR PRESS, good bye. In this vigorous Saxon word there is a world of meaning and feeling. We intend that it shall all be expressed. Our relations have been kindly and pleasant; and although the Fair may dissolve, and the DAILY PRESS, like the swallows in autumn, after their glorious summer revel on free pinion, sink into repose until another season, there will remain happy memories to cheer the heart and strengthen it for the battle which is constantly before it.

MASTER S. C. HIGGINS.—This young amateur artist, as yet self-taught only, exhibits several very meritorous mechanical and other paintings, on the south wall of the north or right hand gallery, at the Pavilion. By some oversight several of these pictures, being very accurately painted elevation views of the locomotives San Mateo, Tiger, and President, all, if we have not mistaken, running on the San Jose railroad, are printed in the catalogue as having been painted in water colors, when in fact, they are painted in oil, and upon paper. The effect of oil upon paper for such work is very superior and much more durable than though done in water colors. The fact that they are or could be so elegantly done in oil, upon such a surface, has been doubted by some; in consequence of which Master Higgings has procured a certificate from the master mechanic and several of the engineers upon the San Jose railroad and others, testifying to the fact, and also to the further matter that they were executed by our young friend himself, without any assistance. Master Higgins exhibits a decided talent in the way of mechanical drawing and painting, and in the latter art has struck out quite a new process of his own in introducing water colors upon ordinary drawing paper. We spent a very interesting hour, this morning, in his studio, on Howard street. Our young friends, one and all, might learn an important lesson by making his acquaintance and seeing how much industry and perseverance may accomplish when rightly applied.

SILVER FROM IDAHO.—The Sierra Nevada on a recent trip brought from the North to San Francisco about $90,000 in silver bricks—the first considerable shipment of that metal from Owyhee, in southwestern Idaho. There are two qualities of ore, one lot being worth $3 25 per ounce and the other $6 40 per ounce. About four-fifths of the amount was of the former quality. One lot of about $57,000 is said to have been the product of 55 tons of ore, while another lot of about $33,000 is the result of 15 tons crushing. Some of the sanguine Idahoans are predicting that their young territory is to excel Washoe as a silver producing country. The facilities, such as wood and water, are said to be abundant in Owyhee.

A FORTHCOMING BOOK.—Robert Dale Owen is writing a "Life of Abraham Lincoln." His publishers give him two years to finish the work. He is paid $3,000 down, and $15,000 when it is finished. There is not a man in the world better qualified for such a work than Mr. Owen, who, besides being a thorough scholar and cotemporary statesman, has been the life-long friend and neighbor of Mr. Lincoln.

THE Constitution of Massachusetts contains the following article, defining the right of suffrage: "Art. XX. No person shall have the right to vote, or be eligible to office under the Constitution of this Commonwealth, who shall not be able to read the Constitution in the English language, and write his name."

Communications.

In this Department we invite the free discussion of all proper subjects—Correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

Reese River--Mills and Mines.

CONTINUED.

As promised in my last letter to the Press, I now resume the subject then left off. In doing so I have elected my starting point at "Yankee Blade Cañon," where, foremost amongst the works, that denote the march of improvement and progression, in the due development of the invaluable metalliferous ledges of this district, may be found those of the

CONFIDENCE MILL AND MINING COMPANY.

Foremost amongst the mines belonging to this company, is the "Confidence Ledge," which was accidentally discovered by some men while digging for adobe clay, several feet of which covers the ledge at the surface, contrary to the general rule of ledges here, which almost invariably crop out. The discoverers having sold to Messrs. B. C. Hill and L. H. Newton, in 1864, these gentlemen set to work in true miner-like style, and soon brought this ledge to such a state of development that it attracted the attention of those seeking to invest.

This mine found purchasers in the gentlemen who are now associated with Messrs. Hill and Newton, as the Confidence Company, namely: Mr. W. H. Fearing, Charles Boyden, and Mr. Hazeltine. This mine had to stand the test of scientific inquisition, prior to purchase being made. A most strict examination of it was made by Professor Jackson, of Boston, Professor Clayton, of this place, and Mr. W. C. Marly, of Austin. Upon the report made by these gentlemen, rested the question of investment. It was decided to invest, and, as I am about to show, the gentlemen named did invest most liberally and substantially. I mention these facts to show with what degree of caution capitalists embark in the mining enterprises of this place. These gentlemen purchased three-quarters of the entire mine, which is situated on the same slope of "Yankee Blade Cañon" as the far-famed "Yankee Blade" and Whitlatch ledges, running parallel to them and at a distance of 360 feet, and pitching in the same direction (S. W.), its ore vein stretching from S. E. to N. W. The vein opens at the top eighteen inches in thickness, gradually increases to three feet at its present depth of only ninety-five feet incline—showing a very superior ledge of partially decomposed quartz, containing sulphurets of silver in combination with antimony, some lead, iron, and traces of copper—with regular strakes or stratas of ruby, or antimonial silver. Another of this company's mines is the

REVENUE LEDGE,

Being the first extension south of the noted Whitlach claim; the inclines of both these mines being distant from each other only 160 feet. The Revenue is opened from the top by an incline sixty-five feet, showing a most regular vein, from two feet at outcrop to three at bottom of incline. The ore for the entire distance shows well in chloride, as also other ores of silver, in every particular identical—as far as opened—with the Whitlatch mine. The grounds affording better facilities for the development of this mine by tunneling, as well as working, the company have adopted that method, and are now running a tunnel which is already in some 200 feet, and is now within about thirty feet of the ledge. The Whitlatch company have drifted on their pay vein 100 feet towards the Revenue, developing a splendid vein of ore all the way, and proving most conclusively what may be expected from the Revenue.

LYDIE ALLEN LEDGE

Is another of the Confidence Company's promising mines, located within 300 feet of the Revenue and Whitlatch, and running parallel to them. This ledge is opened by an incline fifty-five feet deep, where it shows very fine sulphuret ore in a vein of two and a half feet thick.

MAID OF ATHENS.

A ledge, also the property of the Confidence Company, is a location on what is known as the "Hazeltine Ledge." This mine resembles in all its formations the Maggie mine, to which it runs parallel, showing at its present depth a fine sulphuret ore. This mine is being opened by an incline running on the vein, which is being done by contract, and like all the other mines and operations of this company, the work seems to be pushed forward as rapidly as a due regard to economy and superior system of carrying on mining operations will admit.

THE HOISTING AND PUMPING MACHINERY

Of this Company, recently put up on the Confidence ledge, is a most perfect model of perfection in the art of constructing such machinery; and may be considered as second to none of like capacity. The engine—a thirty-five horse power—is one of the vertical inverted pattern, with a very fine coiling-reel attached, for hoisting the ore car; as well as all the necessary attachments for working an eight-inch pump, from which a more than sufficient supply of water is obtained for the boiler. The water, as pumped from the mine, is received into a double set of settling tanks, capable of holding 4,000 gallons. This machinery and motive power is fully competent to work the mine to a depth of 1,000 feet—the whole within a fine stately building with boiler room and blacksmiths' shops attached. With the aid of this excellent machinery, work on the mine is being pushed forward with the utmost vigor, under the able and successful management of the worthy superintendent, Mr. L. H. Newton, ably seconded by Mr. R. C. Hill, as foreman. There will be several hundred tons of excellent ore taken from this one mine—according to present appearances—by the time the company's new mill will be ready to start on its reduction, which will be about thirty days hence.

THE NEW MILL

Of this Company is now on the eve of completion, the work on which does much credit to Mr. Evans, as engineer, Mr. Perkins, millwright, and above all to the general superintendent, W. H. Fearing, Esq., that a building of such magnitude as this one is, and built in such a substantial and costly style, could be perfected in so short space of time. The entire building, from foundation to eaves, is of granite laid in mortar; the walls for the basement story all round being three and a half feet thick, and from thence up to the gables two and a half; these gables being of brick, the whole covered with shingle roof, which projects over the building by a very heavy jet, giving to it a very imposing, tasteful, and substantial appearance.

In the main center is the battery room 48x47 feet, affording space for four batteries of five stamps each, the mortar bed of which is formed of huge timbers fourteen feet long, set on end, and resting on a solid granite foundation. In a division of this room is to be placed the engine of sixty-five horse-power, intended to propel the battery, amalgamators, etc., etc. Here is also placed, in a convenient position for charge and discharge, the dry-kiln, through which the ore has to pass as it comes from the mine, preparatory to being crushed dry—this being the method adopted here, in preference to wet crushing.

On the west of the latter room, is the roasting department, a spacious building of 72x50 feet, with four plendid reverberatory furnaces, 11x15 feet each, built on the most approved plan. The grade at which they are set being such as to allow of the ore being run from the battery by car or rail track, right over a funnel set to each furnace, into which it is dropped, and from whence it is fed by a slide into the furnace as required. The same facility is secured in the conveyance and charging of the roasted ore from the furnace room to the amalgamators, which are twelve in number, placed in a room 48x46 feet, with all the appliances necessary for the introduction of steam and water as it may be desired into the pans, which are of the Varney pattern. In this department and contiguous to the amalgamators, are the separators, which are also of the Varney pattern. There is to be an assay office, retorting furnace, and laboratory connected with this mill, the plan of which I have neglected to note down. Eastward of the center building is another or third wing of this structure, divided into boiler and fuel room. The boiler is a forty-eight inch shell, twenty feet long, and has been tested in San Francisco by a pressure of 240 pounds to the inch.

The dry-kiln is heated by the escaping flame from the roasters passing directly underneath it, thus costing nothing for fuel. Surmounting the whole and placed on the main or center building, is a cupola, of octagon shape, eleven feet high, with balustrade at top, affording promenade space for quite a number of persons at once—the whole very appropriately terminating with a forty-foot flag-pole, from which gaily wafts that glorious emblem of Liberty, "the "Stars and Stripes." To all this the company have added an office built of brick, placed midway between their mine and mill, a very extensive building divided into several apartments, all finished in a tasteful and substantial manner. My object in dwelling at such length on this mine and mill, is merely the better to show what is being done here by way of improvement, how it is done and after what fashion. And, believing I could in no better way give your readers an opportunity of judging, than by selecting one of the first class mills now building and endeavor to describe it, as I have attempted to do, in detail.

The cost of this mill has been $125,000, which, added to outlay on mining machinery and office, brings it up to about $175,000, paid out in coin, besides the several thousands invested in purchase of ledges; and all this imported capital, expended here in substantial improvements, which must lead any one to the conclusion that this country is bound to advance, just as soon as appliances, such as those above described, are properly brought to bear on the material which lies within herself to do so. The distribution of these vast amounts amongst the artisans and mechanics cannot fail of itself to produce a marked improvement in this place.

The entire plans, system, and order, of the Confidence Company's works, bear the mark of the taste, style, and astuteness, as well as business tact and energy, of the general superintendent, Mr. W. H. Fearing, who has by an honorable course in all his dealings, as well as affability of manner, gained the respect and good will of all to whom he has become known. Mr. Fearing, as also one of his partners, Mr. B. C. Hill, are at present on their way eastward, on business connected with their mines. During their absence, which will be but short, Mr. C. Boydin fills the place of Mr. Fearing. Only let enough of such material as compose the Confidence Company take the place of the "know-nothing," "do-nothing" class, then you will see the *bricks* come out.

J. R. M.

[Written for the Mining and Scientific Press.]

Notes of a Trip to the Mines of Lower California and Arizona.

OUTWARD BOUND.

Leaving San Francisco on the staunch steamer Pacific, Captain Butters, with a goodly number of passengers, on a Saturday morning, we had a delightful voyage to San Pedro, the ocean being as smooth as a small lake, and we can truly say that we never had a more pleasant trip upon any water, either salt or fresh.

On Sunday, at 10 A. M., put ashore some passengers that were bound for San Luis Obispo and the Warm Springs. There is no dock at this point, landing being made in small boats. As we were making this harbor, we passed the U. S. steamer Shubrick, with Drs. Torrey and Jackson on board, who had been examining the lower coast with regard to its oleaginous productions. After a short delay, we were out at sea again; and at 8.30 P. M. made the harbor of Santa Barbara, and here passengers and freight are landed in small boats. I understand that a fine dock is to be built at that point, which is needed very much, as there is a very large trade springing up, all, or nearly all, the result of oil being found in the vicinity. We made a short visit to the town, situated about two miles from the shore; but midnight found us again on board, and we were told that at 4 A. M. of Monday we were on our way, and at 4.30 P. M. of the same day we were in the harbor of San Pedro, and were taken thence by Gen. Banning's little steamer Clara, to Wilmington, a distance of five miles. This is the point from which troops are sent into Arizona and the adjacent country, the Government having here large buildings, containing supplies for fitting out expeditions. The next morning rode by stage to Los Angeles, a distance of eighteen miles, over a level country, with here and there a hill. There was no verdure to please the eye, but all around were evidences of the drought of two years ago.

LOS ANGELES.

Los Angeles, of which we have thought of by day and dreamed of by night, occasioned by the following description by Hittell, in his "Resources of California," was at last reached. Hittell says: "The general impression upon my mind, after spending the last week in September in the place, is, that it is one of the most pleasant places in the world, known to me, to visit. The luxuriant vegetation, with its semi-tropical character, is peculiarly agreeable to the sons of the North. The 'clime of the sun,' 'the land of the cypress and myrtle,' 'where the citron blooms and the golden oranges glow amidst the dark green leaves, have ever been with the poets of the colder lands the symbols of a terrestrial paradise, and some of the most brilliant verses of Goethe and Byron have been inspired by admiration of them. The song of Mignon came vividly before me as I walked through the gardens of the City of the Angels. Luscious fruits, of many species and unnumbered varieties, loaded the trees. Gentle breezes came through the bowers. The water rippled musically through the *zanjas*. Delicious odors came from all the most fragrant flowers of the temperate zone."

Julius Frobel speaks thus of Los Angeles in his book, "Aus Amerika:" "I could wish no better home for myself and my friends than such a one as noble, sensible men could here make for themselves. Nature has preserved here, in its working and phenomena, that medium between too much and too little, which was one of the great conditions of high civilization in the classic regions of ancient times. Indeed, when we seek in other lands for places like Los Angeles and Southern California generally, we must turn our eyes to the levant. In the United States there are no kindred spots."

Los Angeles is a town of between three and four thousand inhabitants, a large proportion being Spanish. Much of the business of the place has recently been taken away by Wilmington, but still it is a busy, though not thriving, town. Its vineyards are the pride of all the inhabitants, and well may they look with pleasure upon them. We had the pleasure of visiting some of them, among which were Koover's, Wolfskill's, and Sainsevain's. In these were to be seen nearly all the fruits of the tropical climate—oranges, lemons, pomegranates, grapes, figs, limes, citrons, English walnuts, with our own fruits. In one vineyard were 55,000 grape vines and 2,000 orange trees. On every side, and as far as the eye could reach, were to be seen vines and trees heavily laden with fruit.

The climate is delightful; warm during the day, yet not oppressive, with cool and balmy air in the evening. An old inhabitant told us that this is the first time he has ever known frost in thirty-six years, and never knew it to rain in July till this year. Wines are made here in great quantities, and of the best quality. When one visits the vineyards, the first thing done by the proprietor is to set before him his best wine; then he is ready to show you his cellars, vines and trees. We had the pleasure of tasting the richness of the wines of Messrs. Koover, Mateo Keller and Sainsevain, which will vie in excellence with those of Europe. In fact, some of them have been seized at New York as foreign wines, and held till affidavits could be obtained from here to prove that they were native wines. We fancy that soon we shall send wines to the old world in return for all sent us in years past.

THE OIL FEVER

Has affected the citizens of Los Angeles, for many of them are interested in oil wells that are being sunk near there, and they expect soon to "strike ile." There are said to be good silver leads in the vicinity, but we did not have the time to visit them. At this point we obtained an ambulance, drawn by four mules and a saddle horse. Our party consisted of five, including the driver. Having all our provisions for the trip, we felt quite independent, and thought we should have a grand time cooking our meals; but before the end of our journey, all were willing to have meals cooked for us.

LEAVING LOS ANGELES,

We passed in sight of many fine vineyards. The first noticeable thing was the San Gabriel Mission, which, at a distance, looked like a fine building; but we were told that here, as in many other cases, "distance lends enchantment to the view." What interested us most was a fence from ten to fifteen feet high, and in many places as thick, of cactus, known as the Pitahuya (*cereus giganteus*), on some of which were flowers; but it was loaded with fruit, some being ripe, and was being gathered by Indians. The fruit is of the size of a hen's egg, with a red pulp full of little seeds. We had tried to eat of it, but having tortured ourselves with the little sharp points that grow upon the skin, did not care to repeat the experiment, and besides it is not very palatable. When dried, as the Indians are accustomed to treat it, it is said to resemble the taste of dried figs.

[To be Continued.]

A LEEDS (England) paper says: "Recently, Miss Eliza Smith, daughter of Mr. Smith, veterinary surgeon, died under the following singular circumstances. She was in the kitchen with her sister and Mr. Braithwaite, a butcher; the latter was killing a brace of ducks, and as soon as Miss Smith saw the blood running from one of the birds, she became very sick, and was removed to a sofa, where she died almost immediately afterwards. Death is supposed to have resulted from a shock to the nervous system."

CHARCOAL put to the roots of dahlias, and other flowering plants, will redden them vividly; flowers nearly white being thus turned to a deep red, sometimes altogether, and sometimes mixed with the lighter hue in half a dozen varieties, from one and the same root.

ROACH'S SURVEYORS' TRANSIT.

This transit, made and exhibited at the recent Fair by Mr. John Roach, of this city, is entirely the product of California. The lenses of the telescope were ground by Mr. Roach's own hands—a branch of his business which he practised many years in New York, where he was celebrated as a manufacturer of daguerreotype apparatus, and was the maker of the first lens for the production of daguerreotype pictures for Prof. Morse, now of telegraph notoriety, and Prof. Draper, of the New York University.

The castings for this instrument were made by Wm. T. Garrett, of this city. The pattern and design have peculiarities. Mr. Roach's long experience has taught him that when an accident happens, by fall or otherwise, some particular part generally receives the shock or damage, and as a general rule, this is one or both of the centers. If one center only is injured, it is considered that the instrument is repairable; but when both are bent or injured, it is said that "that instrument is only fit for the old brass box," and such parts as can be used for repairs are made available. With this experience, and many years of practical daily observation, Mr. Roach has changed, modified, and strengthened the parts that suffer most from accidents which render valuable instruments useless. The wooden tripod which supports the transit is held by bolts, which press the "bibles" against the legs, often cutting them as they are spread out, and at the same time drawing the screws and straining the plate to which the "bibles" are fastened, causing an unsteadiness in this part, frequently attributed to other parts of the instrument, and "moving" from the object. The new connection is by a stout brass tongue entering between the legs, which the elasticity of the wood binds firmly by the pressure of the bolts, and makes at once a fine support, on which the instrument rests, thus remedying the defects above described.

This transit has double parallel plates; the screws have broad milled-edged heads. The plate in which they screw is heavy and solid, having an annular ring instead of the thimble sockets. The stem projecting below the plate, as well as the stem above, is all in one piece, which gives solidity, whereas in other instruments, as heretofore constructed, this part is composed of three pieces. The socket moving on this—the main center—is also heavy, and is screwed to the lower limb, which has a dish-like form, thus giving it the strength of the arch. The upper plate overlaps the lower limb, its center passing through about one and a half inches into a socket, where it fastens with a screw and washer. This arrangement enables the engineer in the field to clean the instrument without disturbing any of the adjustments. The graduation in half degrees is all on silver, which, with the vernier, reads to single minutes. The graduation of the vertical arc, which is a complete circle, is also in silver. We would invite engineers to examine this instrument.

SALE OF THE MURPHY MINE.—The Murphy mine, at Twin River, Nevada, has been sold and possession given to the purchaser, Mr. A. W. Canfield. The consideration was $50,000 in gold coin, and one-fifth of the capital stock (unassessable forever) of the company incorporated under the laws of New York, with a paid capital of $300,000. A twenty stamp mill is to be erected immediately, and a large force of workmen will be employed on the mine and in opening a road. Captain Shears, late of the Lake Superior copper region, and a miner of long experience, is to be the Superintendent of the company. Out of seventy-five tons of ore taken from the mine, sixty tons were worked at the Butte mill, and yielded nearly $10,000, or an average of $165 per ton. The above facts we glean from the Reese River *Reveille*.

NEW INVENTION.—The Chicago *Journal* understands that an invention has been made by a citizen of that city that will work a revolution in steam engines. It does away with steam boilers altogether, the propelling agent being generated by a shower bath falling on hot iron plates, and passing directly into the cylinder of the engine.

Mining Summary.

Notwithstanding the present depressed condition of the Mining Stock Market, the receipts of bullion from the interior show that the mines themselves are in as flourishing a condition as at any previous time. For the last two weeks they have exceeded $2,100,000. Large numbers of new quartz mills are being put up in all parts of this State and in Nevada.

In our own state the mines are still yielding as well as ever. The discovery of the rich mines in the Excelsior district, in the upper portion of Nevada County, has given a new impetus to mining in the higher regions of the Sierra, which have hitherto been considered quite out of the range of mining operations. A rich discovery has just been reported near Forbestown, Butte County, by several persons who have taken out about a ton of rock which they think will pay fully $10,000, and from which, as they inform the editor of the Marysville *Appeal*, they are actually taking out about $1,000 per day with hand mortars. The ledge has been opened only twelve feet in depth and varies from ten inches to two feet in thickness.

Partial returns were recently received from the first installment of ten tons of rock from the Enterprise lead, Excelsior, now being worked at the Mariposa Mill in Virginia City. The yield of the ten tons was, in gold, $918.58, and in silver, $101.49; total, $1,020.07. The tailings assay $31.42. Total returns, exclusive of the tailings, will soon be given, when we will be able to speak more fully and satisfactorily in regard to the matter. What has already been obtained from the ore shows that it pays by mill process over $100 per ton. According to the *Enterprise*, the ore worked was for the purpose of obtaining a fair and reliable test of the ore of the mine, and what was considered fair average rock. The lead is found to be one of immense size, being by actual measurement thirty-five feet in width, with indications of becoming still wider. Should the ore in the vein pay no more than $30 per ton, it would still be a fortune for all owning in the mine. The stockholders are in high spirits over their prospects, as they well may be.

It is said that $100 per share have been offered and refused for Jefferson stock, in Brown's Valley; and that Sweet Vengeance is selling for $15. Jefferson is said to be held at $200. A correspondent of the *Appeal* says that the probable future monthly income of each of the three principal shareholders of the Jefferson Company (Messrs. Videau, Booth and Snyder), will be from $6,000 to $8,000.

The mines at Goodyears' Bar, Sierra County, according to the *Mountain Messenger* present a lively appearance, reminding one of earlier times and good pay. The large flume is done and two companies are at work, while some half dozen more are fixing up as rapidly as possible. In a few weeks we may look for something handsome in the way of shipments of gold dust.

The same paper says that the New Orleans mining company, at Little Grizzly, are now running in gravel which prospects remarkably well, getting better as they go on, and which very much resembles that of Monte Cristo, on which the lead lies.

We learn from the Calaveras *Chronicle* that quartz mines at Angel's Camp are changing hands, and that the new proprietors, having capital at their command, will be able to give the lead on which the principal claims are located, a thorough test. The mine known as the Winters' mine, has changed owners, and Bovie, of San Francisco, is the present proprietor of one-half of it. This mine is one of the best on the lead, and has always paid well for the labor and capital expended. One ton of rock that was crushed a few weeks since, yielded the snug little sum of seventeen hundred dollars. This rock was selected, of course, but is not superior to much taken from this mine. The process of working is dry crushing and working by the arastra. The mine of Stickles & Co., which is located almost within the town, has also been a paying mine, and promises to be as good as any on the lead. The proprietors are now erecting a new mill, and will have it ready to commence crushing rock in a few weeks.

WASHOE.

The Alpha Company cleaned up their new mill for the second run of six days, on the 6th instant, with the following result: 13,000 ounces retorted amalgam, worth $1.80 per ounce. There is now being taken from the mine, daily, fifty tons of first-class ore, worth $80 per ton; and twenty-one tons second-class, worth $45 per ton. On the 5th inst. this company received the returns of a lot of sacked ore sent to Dall & Schamp's reduction works, at Washoe, which went $512.50 to the ton.

A fine body of excellent ore, the extent of which is unknown, has been struck in the lower level of the Confidence mine, over six hundred feet from the surface. Mr. Nelson, the Superintendent, thinks this new deposit will go as high as $500 to the ton. A large amount of very good looking rock is now being taken out of this mine.

The Bowers' Segregated, which is 100 feet of the original Minerva ground, is considered one of the good claims of Gold Hill. A shaft is now being sunk on the west side of the ravine, opposite the claim, for the purpose of working it.

The Belcher Company have got their new pump finished. It is of ten inches diameter, and will be very effective in removing the water from the mine. They have been hoisting the water heretofore by means of a tub. Large quantities of rock are being taken out for milling, and the mine is in a highly prosperous state.

The works of the Empire are being thoroughly repaired and rendered safer than before. The boiler is being put in first rate condition.

According to the Gold Hill *News*, the Imperial Consolidated Mining Company, whose office is in Gold Hill, has received half a ton of their argentiferous galena ore, which is to be worked *by a new process*, in order to separate the silver from the galena. It is to be worked at the French mill in Gold Hill.

The Virginia *Enterprise* says the Cole Gold and Silver Mining Company have lately struck a large amount of water. They are now selling to the Gold Hill and Virginia Water Company fully ten inches of excellent water. They are still some distance from their lead, but are going ahead at the rate of forty feet per week with the tunnel.

The Yellow Jacket Company have bought the fine 80-horse power Corliss engine, formerly used in the Best & Belcher hoisting works, the latter company having no longer use for the engine, as they are now working their mine through the Gould & Curry.

HUMBOLDT.

We append the following items from the *Register*:

Weber's mill, in Trinity, is crushing Montezuma ore. Webber will move down to the river, this fall, so as to be more advantageously situated for working the Arabin ores.

The following statement is furnished by Mr. Worden of the results from working several lots of ore from the Monroe Series, in Sierra district. These ledges are auriferous. The figures stand as follows: 1,200 lbs. unassorted, worked by hand, netted $229.34; 500 lbs. assorted rock, same process, netted $102.07; 3,000 lbs. poor rock, worked by mill process $116.94; 13,962 lbs. 200 per cent. better rock, mill process, $506.57, and 1,475 lbs. unassorted rock, worked by hand, netted $274.33.

The Ætna Company's mill is about ready to commence crushing. Two men in seven days have taken out about sixty tons of ore, which has every appearance of being rich.

Mr. Nason has secured two mill sites on the river—one for the mill now there, for working Bullion rock, and the other for the location of a mill to work Arabia ores.

THE NATURE OF DIAMONDS.—Professor Gœppert's long-expected prize essay *On the Vegetable Nature of Diamonds* has recently been published, illustrated by colored plates. Experiments show that diamonds cannot be produced by Plutonic agency, as they become black when subjected to a high degree of temperature. That they are, on the contrary, of Neptunian origin, and were at one time in a soft condition, is proved not only by the impressions of grains of sand and crystals on the surface of some of them, but also by the enclosures of certain foreign bodies, such as other crystals, germinating fungi, and even vegetable structure of a higher organization. If Professor Gœppert's conclusions he accepted, confirming and extending as they do the views held by Newton, Brewster and Liebig, diamonds seem to be the final product of the chemical decomposition of vegetable substances. *Athenæum.*

THE Providence *Press* says: "There is a man of our acquaintance living in this city who has been married thirty-four years, and has still his wedding suit, which he has worn every Sunday since, and it is still in good condition for Sunday wear. He has worn it in all 1,768 days."

ENLARGED.—The Red Bluff *Independent* has been enlarged nearly double its former size, and is otherwise greatly improved.

POPULAR JOURNALS.—Under the above head, the *Dramatic Chronicle*, published in San Francisco, has the following:

Every journal of course wants to be popular, because all journals are published as business enterprises, and popularity is generally an essential element of success. But there are two kinds of popularity, which are reached by quite different paths. The one is a present ephemeral popularity, which may be won by truckling to the popular feeling of the hour, and by a time-serving, timid, cringing course generally; by taking care to offend no one who is rich or influential, to express no opinions until they have become recognized or fashionable, by sacrificing convictions for an advertisement, and suppressing wholesome truth for fear of offending a subscriber. The other is an enduring popularity, which brings with it not only prosperity, but influence and power for good; and it is only to be gained by a fair, conscientious, considerate, and independent course by speaking of friends and foes alike with justice and candor; by so eschewing the influence of prejudice and personal feeling that the community shall learn to respect and confide in the statements and opinions published. The former is the policy for journals designed to last for a month, or a year, the latter for those that aspire to a long, healthly, and honorable career.

TOBACCO SMOKING.—It is not one of the pleasant signs of the times that this practice has become in use among boys who have scarcely passed beyond their school days; and so numerous are the instances in which small boys may be seen without any seeming shame smoking pipes in the open street, that it is often difficult to resist the inclination to administer a little seasonable correction. The use of the tobacco pipe before the bodily functions have been developed stops and dwarfs the growth. It leads to idleness, and is in far too many instances a sort of connecting link with dishonesty and habits of drinking. In these days we need to increase the intellectual and bodily strength of our youth; we therefore beg of the masters of schools, of the fathers, mothers, and others who have charge of boys, to have no hesitation about the matter, but to put out the pipes of the small boys at once.—*Builder.*

HOW RED HAIR FOR LADIES IS OBTAINED IN PARIS.—It is the fashion in Paris to have the hair the color of the Empress'. How the brunettes accomplish this is thus explained: At the appointed hour the candidate for golden honors enters the dressing-room in a long white dressing gown. Her hair floats loosely over her shoulders. The artist begins by separating every hair. Then he pours over the head a phial of "water" (probably a deadly poison.) He saturates each hair. This occupies two hours. After fifteen minutes he soaks the whole hair in ice water. He then kneads the hair with his hands. Again ice water is applied. The "gooses" are moved within a few feet of the hair and it turns red. The whole operation lasts five hours, and leaves the lady with red hair, an intolerable headache, mangled nerves and $80 less in pocket.

PRUDENT ECONOMY REWARDED.—The St. Albans (Vermont) *Daily Messenger* says that a Franklin county boy engaged by the month in a large shipping house in Boston, profiting by the maxim that "a penny saved is a penny clear," carefully extracted the nails from the old boxes which "had served their time." In four weeks he had collected in the course of his business two or three kegs of good nails. His employer noticing the accumulation, after consulting the scales, handed the young man sixteen dollars as the immediate proceeds of his economy, and has honored this invaluable trait, in connection with a sterling character in other respects, by an offer of partnership.

THEY have a novelty in the refreshment line at Vesord, a railway station in France, travelers being provided for about fifty cents, with a basket containing three kinds of meat, a bottle of wine, bread, and dessert. The empty dishes and baskets are left at the next station, to be returned.

THEY kill pigs by steam in Chicago. A great iron claw, with five fingers, hooks out the pigs which are quarrelling in the pen below, and lifts the porkers to a gibbet near by, and then plunges them again into scalding water. By the machine fifty porcines are killed, scalded, scraped, cleaned, split and hung in rows ready for salting, within an hour.

THE coal mine of General Cloes, near Leigs, Belgium, was recently the scene of a dreadful accident. A sudden eruption of water took place in one of the lowest cuttings of the mine, and caused the death of twenty-nine persons, men and women, who were working on the spot.

THERE is a parrot in France which is known to be 65 years old, and is believed to be at least 70.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and all other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Apollo, Lander co., 50c			Oct 7–Oct 23*
Alpha, Gold Hill $90			Aug 26–Sept 27
Alpha, Gold Hill			Special Meeting Sept 28
Arizona Copper, Arizona, 10c			Sept 16–Sept 30
Arbitrios, Chihuahua, Mex., $1			Sept 30–Oct 12
Bella Vista, Lower Cal., 30c			Oct 14–Oct 23*
Black Ledge, Lander co., $2			Oct 7–Oct 24*
Blue Ledge, Lander co., 50c			Oct 7–Oct 23*
Baltimore, Alpine co			Annual Meeting Sept 16*
Bacon M. & M. Co., $10			Payable May 10
Belcher, Baldwin & Abernethy			Dividend of $17, June 3
Baltimore American, Storey co., Nev., $5			Sept 5–Sept 19
Boston, El Dorado co., 50c			Sept 18–Sept 30
Bolinas, Marin co., 50c			Sept 16–Oct 2*
Bunker Hill, Eldorado co., $1			Oct 7–Oct 19
Burning Moscow, $15			Oct 6–Oct 18
Buckeye, Lyon co., Nev., $3			Oct 7–Oct 23
Confidence			Dividend, $100 per foot May 1
Chollar, Storey co., Nev., $83½			Sept 18–Oct 2
Cole, Storey co., Nev., $1			Sept 4–Sept 19
Coahortlin, Stanloa, Mex., $5			Sept 1–Sept 20
Central, Storey co., Nevada, $5			Sept 6–Sept 26
Cordillera, Chihuahua, Mex., $2			Sept 26–Oct 7
Coal Creek, Sonoma co., 50c			Sept 11–Sept 16
Crown Point, Storey co., Nev., $25			Oct 4–Oct 20
Confidence			Annual Meeting Sept 25
Capitola, Santa Clara co., 15c			Sept 22–Oct 6
Cosala, Sinaloa, Mex			Annual Meeting Sept 18
Chiplonena, Sonora, Mex., $5			Oct 14–Oct 28
Dunkirk, Lander co			Special Meeting Sept 23*
Dios Padre, Sonora, Mex., $2			Oct 4–Oct 17
Edward Everett, Lander co., 25c			Oct 14–Oct 28*
Emilia, Guerrera, Mex., 25c			Sept 30–Oct 7*
El Dorado, Alpine co			Annual Meeting Sept 16*
Eagle Quartz, Amador co., 75c			Sept 2–Sept 21*
El Tesoro, La Paz, 50c			Sept 19–Sept 30
Empire M. & M. Co			Dividend Payable Aug 10
Exchequer, Storey co., Nev., $2			Oct 2–Oct 17
El Taste, Sonora, Mex., $2			Oct 4–Oct 17
Franco Americana, $1			Sept 12–Sept 25
Florida, Reese River, Nev., $10			Oct 3–Oct 18
Good Hope, Alpine co., 50c			Oct 14–Oct 28*
Great Western Tunnel			Annual Meeting Oct 5*
Globe, Alpine co., $2			Sept 23–Oct 12*
Geo. Washington			Annual Meeting Sept 18*
Golden Rule, Dividend			Payable Aug 20
Gould & Curry			Dividend, $40 Aug 5
Gov. Nye, Devil's Gate, Nevada $1			Sept 12–Sept 25
Guadalupe, Chihuahua, Mex. $25			Oct 3–Oct 18
Garcia Petroleum, 15c			Sept 4–Sept 16
Great Republic, Contra Costa co			Annual Meeting Sept 19
Hanscom, Copper, Del Norteco, 15c			Oct 7–Oct 23*
Hale & Norcross, Storey co., Nev., $25			Oct 9–Oct 23
Illinois, Alpine co			Annual Meeting Sept 19*
Imperatrice Eugenio, Calaveras co., 25c			Sept 2–Sept 19*
Imperial			Dividend Payable Sept 9
Isabella			Annual Meeting Oct 2
Joe Lane, Lander co., 50c			Oct 7–Oct 23*
Jewett, Storey co., $1			Oct 4–Oct 21*
Jefforson, Brown's Valley			Dividend $10 per share Aug 23
Kimblin, Sierra co., $25			Sept 16–Oct 2*
Kentucky, Calaveras co., $1			Oct 10–Oct 30
La Favorita, Sonora, Mex. 50c			Sept 30–Oct 14*
Leland, Arizona Territory, 25c			Sept 16–Oct 2*
Lady of the Lake, Arizona Territory 25c			Sept 16–Oct 2*
Lady Franklin, Alpine co., 5c			Sept 16–Oct 6*
La Blanca, Sonora, Mex., 2 50			Oct 12–Oct 25
Lady Bryan, Storey co., Nev. $2.50			Sept 20–Oct 2
Lizzie			Special Meeting Sept 30
Maggie, Lander co., Nev., $3			Sept 23–Oct 5
Morning Star, Alpine co., Nev. $1			Sept 21–Sept 30
Morning Star, Alpine co., $1			Sept 22–Oct 10
Mina Prieta			Adj, Annual Meeting Sept 25
North American Tin, Mexico, $1			Oct 14–Nov 1*
Nuestra Sen. de Guadaloupe, Durango, 50c			Oct 11–Sept 22
Nonpareil, Tuolumne co., $2			Aug 31–Sept 16
North American, Virginia, Nev., $10			Levied Aug 14
Nuestra Senora de Guadalupe, Tallsco, $6			Oct 16–Oct 28
Old Colony Lander co., $6			Oct 14–Oct 28*
Ontario, Lander co., $1			Sept 11–Sept 22
Ophir, Storey co., Nev., $8.33½			Oct 3–Oct 18
Pizaro, Lander co., 10c			Oct 21–Nov 4*
Porter, Virginia, Nev., $5			Sept 30–Oct 14*
Potosi, Storey co., Nev., $25			Sept 18–Oct 2
Petaluma M. & M. Co., Dividend of 5 ₱ cent			Aug 9
Peninsula, San Antonio, L. Cal., $10			Sept 6–Sept 16
Pennsylvania, Alpine co., $2			Sept 9–Sept 28
Paragon, Humboldt co., 30c			Oct 4–Oct 16
Rancheria, San Antonio, L. C. 40c			Sept 12–Sept 26
Refugio, Chihuahua, Mex., $2 50			Sept 9–Sept 23
Simpson, Alpine co., 25c			Oct 14–Oct 28*
Southern Light			Sept 9–Caution*
Segregated Belcher, Storey co., $2			Oct 7–Oct 23*
Santa Cruz Petroleum, Santa Cruz, 30c			Sept 23–Oct 7*
Santa Cruz Petroleum			Annual Meeting Sept 26*
Silver Prize, Alpine co			Annual Meeting Sept 20*
Silver Creek, Alpine co			Annual Meeting Sept 19*
St. Clair, Smoky Valley, 50c			Sept 2–Sept 16*
Scott M. & M Co., Humboldt co., Nev., 80c			Sept 9–Sept 25*
Savage			Dividend, of $75 May 5
Santiago			Dividend May 17
Stephen A. Douglas, Lander co., Nev. $5			Sept 18–Oct 3
Sierra, Douglas co., Nev., $2			Sept 8–Sept 29
Sierra Nevada, Storey co., Nev., $7.50			Oct 7–Oct 21
Sierra Nevada, Storey co., $7.50			Oct 7–Oct 21
Table Mountain, Calaveras co., 50c			Sept 23–Oct 12*
Tip Top, Alpine co			Annual Meeting Sept 18*
Tuolumne Mountain, 50c			Sept 13–Sept 23
Trinnto			Special Meeting Oct 6
Trinidad & San Jose, Copala, Mex., $10			Oct 6–Oct 20
United States, 25c			Oct 16–Oct 28*
United States			Meeting Sept 25*
Union No. 2, Calaveras co., $1			Sept 9–Sept 23*
Union Star, Devil's Gate, Nev			Annual Meeting Sept 25
Vulcan, Lander co., 50c			Sept 16–Sept 30*
Wallpi, Arizona, $1			Oct 14–Oct 30*
Wide West, Alpine co., $1			Oct 14–Oct 30*
Wisconsin, Alpine co			Annual Meeting Sept 18*
Yankee Blade, Lander co., 30c			Oct 7–Oct 27*
Yellow Jacket			Dividend of $100 May

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Branch Mint	Aug 22	1 50
Bishop	Aug 18	1 00
Burning Moscow	Sept 5	15 00
Bullilon	Sept 8	16 00
Chollar	Aug 18	34 00
California Consol M & M Co	Aug 23	1 00
Crown Point	Sept 2	25 00
Exchequer	Aug 30	2 00
Globe	Aug 17	1 00
Hamilton	August 12	40
Hale & Norcross	Sept 8	25 00
Jewett	Sept 5	1 00
Lady Bryan	Aug 22	2 50
Mount Blanc	Aug 23	1 50
North Comstock	August 2	25
Napoleon Consolidated	August 15	25
North American	August 12	10 00
Orleans Flat	Aug 25	1 00
Ophir	Sept 5	100 00
Potosi	Aug 18	50 00
Rogers	Sept 12	5 00
Siegel	Sept 8	50
Sierra Nevada	Sept 17	7 50
Segregated Belcher	Sept 9	2 00
Schiller	Aug 23	1 00

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale
Alpha	Sept 27	Gold Hill
American Flat Nevada	Sept 28	Virginia
Allen	Sept 16	Virginia
Central Hawkeye	Sept 13	Gold Hill
Cœsus	Sept 22	Gold Hill
Cole	Sept 19	Virginia
Chrystal Peak Consol	Sept 30	Virginia
Eastern Crown Point	Sept 9	Virginia
Globe	Sept 15	Virginia
Hamilton	Sept 12	Virginia
Imperial Consolidated	Oct 7	Gold Hill
Keystone	Sept 15	Virginia
Keystone	Sept 26	Gold Hill
Kossute	Oct 14	Virginia
Lincoln	Sept 6	Virginia
Napoleon Consolidated	Sept 25	Virginia
Nevada	Sept 25	Virginia
North Comstock	Oct 7	Virginia
Opal	Sept 23	Virginia
Sides	Sept 16	Virginia
Union	Sept 28	Virginia

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	@	70
do pickled ₱ lb	@	50
do Oregon	@	40
do New York, ₱ lb	30@	35
Cheese, ₱ lb	20@	25
Honey, ₱ doz	40@	50
Eggs, ₱ doz	65@	60
Lard, ₱ lb	25@	27½
Hams and Bacon, ₱ lb	25@	27½
Cranberries, ₱ gal	75@	
Potatoes, sweet, ₱ lb	6@	8
do irish, ₱ lb	2@	4
Tomatoes, ₱ lb	3@	5
Onions, ₱ lb	6@	—
Apples, No. 1, ₱ lb	3@	6
Pears, table ₱ lb	3@	—
Plums, dried, ₱ lb	15@	20
Peaches, dried, ₱ lb	10@	15
Grapes, Foreign, ₱ lb	20@	25
Oranges, ₱ 100	2 50@	3 00
Lemons, ₱ 100	5 00@	6 00
Chickens, apiece	75@	1 12

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 25 @	6 50
Do Superfine	5 75 @	6 50
Corn Meal, ₱ 100 lb	@	4 00
Wheat, ₱ 100 lb	1 85 @	1 95
Oats, choice, ₱ 100 lb	1 35 @	1 40
Barley, ₱ 100 lb	96 @	1 05
Beans, ₱ lb	3 @	4
Potatoes	85 @	1 00
Hay, ₱ ton	10 00 @	15 00
Live Oak Wood, ₱ cord	8 00 @	10 00
Beef, on foot, ₱ lb	8 @	10
Beef, extra, dressed, ₱ lb	16@	22½
Sheep, on foot	1 00@	2 00
Hogs, on foot, ₱ lb	8 @	12
Hogs, dressed, ₱ lb	15 @	16

Groceries, Etc.

Sugar, crushed, ₱ lb	16½@	16½
Do China	10 @	12½
Coffee, Costa Rica, ₱ lb	23 @	24
Do Rio	22 @	23
Tea, Japan, ₱ lb	85 @	95
Do Green	70 @	90
Hawaiian Rice, ₱ lb	@	10
China do	8 @	10
Coal Oil, ₱ gal	1 60 @	1 70
Candles, ₱ lb	20 @	23
Ranch Butter, ₱ lb	55 @	60
Isthmus do	35 @	38
Cheese, California, ₱ lb	20 @	26
Eggs, ₱ doz	55 @	60
Lard, ₱ lb	— @	25
Ham and Bacon, ₱ lb	— @	25
Shoulders	— @	18

San Francisco Stock and Exchange Board.

SAN FRANCISCO, September 21, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ 72½	$ 73
Gov. Legal Tender Notes	72	72¼
State Bonds, 7 ₱ cent	85	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	..	..
San Francisco Bonds, 1858, 6 ₱ cent	65	70
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	50	55
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	..
Butte County Bonds, 10 ₱ cent	78	..
California Navigation Co	83	84
State Telegraph Stock	30	35
San Francisco Gas Co	95	96½
Sacramento Gas Co	86	..
Spring Valley Water Co	51	51¾
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	..	..
Central Railroad Co	..	..
North Beach and Mission	40	41
MINING STOCKS.		
Ophir	$ 405	$ 410
Gould & Curry	1300	1360
Empire M. & M. Co	356	360
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	1335	1340
Chollar	445	450
Potosi	450	455
Hale & Norcross	505	510
White & Murphy	....	....
Sierra Nevada	20	21
Daney	....	....
Burning Moscow	22	23
Lady Bryan	0	7
Sacramento & Meredith	....	....
Burnside	....	5
Iowa	....	....
El Dorado	....	....
North American	17	18
Baltimore American	15	20
Yellow Jacket	1340	1350
Overman	180	182
Cedar Hill Tunnel	....	....
Wide West	6½	7
Crown Point	1125	1130
Antelope	....	....
Emeralda	....	10
Ætna	....	....
Real del Monte	12	15
Silver Hill	....	....
Utah	....	....
Justis	22	23
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co	....	55
Melones and Stanislaus	....	....
Sheba	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, C. H	152	154
Buckeye	....	....
Dick Sides	....	....
Imperial	252	253
Alpha	1075	2.00
Bajazett	..	....

FULTON

Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

New Mining Advertisements.

New Mining Advertisements are continued on page 172.

Bolinas Petroleum Company, Marin County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 14th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Holden, Wm	13	50	$25 00
Higgins, D	25	80	40 00
Barker & Rosenfield	29	100	50 00
Baxter, E H	11	50	25 00
Fox, H I.	10	50	25 00
B Jurgens	14	50	25 00
Foster, L J	28	25	12 50
Stacey, M V	31	10	6 00
Stanles, J S	35	5	2 50

And in accordance with law and an order of the Board of Trustees, made on the 14th day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the office of the Company, 611 Clay street (Room 8), San Francisco, on the 21 day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. L. KIRBY, Secretary.

Office, 611 Clay street, San Francisco. se16-3w

Bella Vista Gold and Silver Mining Company,

Oacachilas District, Lower California.—San Francisco, September 9th, 1865.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of September, 1865, an assessment of thirty (30) cents per share was levied upon the capital stock of said company, payable on the 10th day of September, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, 326 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. FULLER, Secretary.

Office, 326 Clay street, San Francisco. se16

North America

LIFE INSURANCE CO.,

No. 310 Montgomery Street,

SAN FRANCISCO.

The Most Liberal Company

IN THE UNITED STATES.

All Policies Non-forfeitable and Indisputable.

No Extra Charge for Residing in the Territories, or for Traveling to and from the Eastern States.

J. A. EATON & CO.,

Managers of the the Pacific Branch.

A CARD TO QUARTZ MINERS.

A year ago I placed on exhibition at the Mechanics' Fair a machine for reducing and amalgamating ores, embodying an entirely new principle. Having on trial best all competitors, I was awarded diploma "FOR THE BEST REDUCING AMALGAMATOR." Since that time a considerable number have been put to work in the mines. Although not properly matured or perfected, the superiority of their grinding qualities has invariably been acknowledged. But my original plan of using this machine for the double purpose of grinding and amalgamating, has been abandoned—experience having shown that a speed sufficient to accomplish any considerable amount of work at grinding is totally unfit for amalgamating, and that no such combination should be attempted. On the other hand, the great work of thoroughly reducing the ore being accomplished, in one simple machine may be combined the work of amalgamating and separating. The old style of large, flat bottomed tub, with slow-moving mullers, is, according to the verdict of both California and Nevada, the best machine for this purpose that has yet been produced. This mode of working admits of my Grinder being constructed with special reference to its grinding qualities, in which condition it is now offered to the public. Its capacity for work is fully doubled by improvements due to the past year's experience.

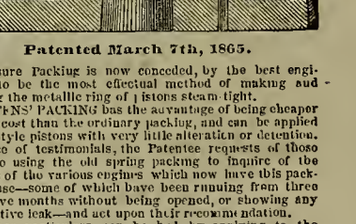
When no greater degree of fineness is required than will pass through the finest punched screen, the work of a battery may be fully trebled by one of these machines placed below it, receiving from a coarse screen in the battery and discharging through a fine one.

An extraordinary amount of work may be accomplished in this way with a great saving of power and first cost of machinery, by the use of this improved Quartz Grinder

J. M. BEATH, Patentee.

Manufactured at Vulcan Iron Works, S. F. 4df

Stevens' Pressure Packing.



Patented March 7th, 1865.

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

STEVENS' PACKING has the advantage of being cheaper in first cost than the ordinary packing, and can be applied to old style pistons with very little alteration or detention. In place of testimonials, the Patentee requests of those who are using the old spring packing to inquire of the owners of the various engines which now have this packing in use—some of which have been running from three to twelve months without being opened, or showing any descriptive leak—and act upon their recommendation.

Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Alameda Railroad, or at the VULCAN IRON WORKS, where they an be seen, at any time, in course of construction.

10df **ANDREW STEVENS.**

A CHANCE FOR CAPITALISTS.

The Hinckley Quartz Lead,

Located in Jacksm, Amador county, California, containing four hundred feet, is FOR SALE. It has thus far proved to be the richest claim in the county. For further information, enquire on the premises.

Jackson, Sept. 4th, 1865. T. HINCKLEY.

For any further information concerning myself, I will refer (without permission) to A. Hayward, Esq.; Horace Kellum, Esq.; C. W. Rand, U. S. Marshal; Bigelow Bros., Insurance Agents; M. Abrams, Esq. 10v11-4w

Pacific Mail Steamship Co.

The following Steamships will be dispatched on the following named days.

September 18—COLORADO.....Captain J. T. Watkins.

October 3—CONSTITUTION.....Capt. Farnsworth.

From Folsom street Wharf,

At 11 o'clock A. M., punctually to the hour,

For Panama.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company

A Baggage Master will be sent through each trip.

Cabin passengers will be berthed for Atlantic steamer.

OLIVER ELDRIDGE, Agent.

Corner Sacramento and Leidesdorff sts.

PLEASURE AND SLEEP.—When William the Fourth was crowned, a gentleman from the country having been seized with a temporary mania to witness the coronation procession, purchased a seat in one of the stands erected in Palace Yard for the occasion, and, fearful lest the crowd should prevent his access to it in the morning, he took possession of it over night. Excited expectation, conspiring with the novelty of his position, kept him thoroughly awake till toward noon next day. He saw the multitude assemble, the military take up their posts, and all the successive changes which indicated the near approach of a gorgeous and solemn ceremonial. But he had drawn too freely upon his physical strength. There is a point of compulsion beyond which nature refuses obedience. The point in this instance was reached a few minutes before the procession started, and when it passed by the stand on which our country gentleman sat, he was locked in the arms of a sleep that could not let him go. The incident fairly illustrates the position we are aiming to establish. There are some things which fly from you the more resolutely they are courted—sleep is one, pleasure is another.

SUPERIOR LIQUORS.—It is claimed that the recent investigations of medical science have demonstrated two facts, which have been promulgated by high professional authority, to wit: First, that alcoholic liquors, free from poisonous adulteration, used with prudence, are nourishing, life-sustaining, and healthful. Second, that in connection with copious inhalation and fatted meats, they arrest pulmonary diseases, by seizing upon and consuming the mucous tissues which destroy the lungs. Our ablest physicians have accepted these statements as facts, and are conforming their practice to the new theory. It will be understood that our approval extends only to PURE liquors, with the expression of a belief that those which are impure—that is to say, manufactured from drugs—will brutalize and destroy life, under all circumstances, with the certainty of strychnine or poison. The good must never be confounded with the bad, however, in judging of liquors or of human character. The use of an article, on the same principles, may prove a benefit, while the abuse is injurious and demoralizing. Pertinent to this subject, Mr. I. D. Thompson has on exhibition at the Fair a case of whiskies and brandies from his sample rooms, 321 Montgomery street—where, as he informs us, he retails ONLY the same meritorious kinds—which might grace the table of king or connoisseur, and receive the stamp of approbation. The brands are all old, and the liquors soft, oily and aromatic. His whiskies are known as the "Hanger," from Virginia; the "Miller" and "Lily," from Kentucky, and "Old Rye," from the Monongahela. The "tasting committee" have pronounced them superb. Those who drink liquors ought to see to it that they get them PURE; and there is a general concurrence of opinion that Mr. Thompson keeps no other kinds. *

BLASTING

POWDER.

EDWARD H. PARKER,

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Agent of the

Hazard Powder Company.

REMOVAL!

R. WEGENER,

Accountant and Mining Secretary

Has removed to

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Wanted.

GOLD QUARTZ

Suitable For Cutting Jewelry,

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PATENT RIGHT

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The patent right for the United States of a valuable invention can be secured at a bargain by applying at this office. The article is one of general application throughout civilization.

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The PATENT AGENCY of the MINING AND SCIENTIFIC PRESS has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of LETTERS PATENT from the United States and foreign Governments cannot be over-rated, and the Proprietors of the PRESS, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

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Mining Shares and Legal Tender Notes bought and sold strictly on commission. Liberal cash advances made on stocks consigned for sale. 1v11-3m

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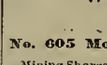
DR. H. AUSTIN,



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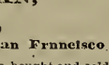

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[OVER SAN FRANCISCO BATHS]

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JAMES N. OLNEY—Auctioneer.

SECRETARIES of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

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G. F. DEETKEN,

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NOTARY PUBLIC,

—AND—

Commissioner of Deeds for the State of Nevada and the Territory of Arizona,

AND FOR THE

STATES OF MASSACHUSETTS AND MAINE.

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Having been connected with the public works of the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also STATE LOCATING AGENT, and as such having the sale of

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MARBLE WORKS,

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Mantels, Monuments, Tombs, Plumbers' Slabs,

Etc., On hand and Manufactured to order.

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Barstow's Metallic Burial Caskets and Cases.

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MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

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ARTIFICIAL LEG,

Manufactured in Philadelphia, Penn.

JARVIS JEWETT, AGENT.

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OUR IMMENSE STOCK

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Fine Custom Made Clothing

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ALL THE LATEST STYLES

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AT EXTREMELY LOW PRICES.

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LEHIGH COAL.

200 Tons Large Lump Lehigh Coal

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I am also in constant receipt of

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At the Lowest Market Price.

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THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphurets, pyritous, and the (so-called) "refractory ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

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The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

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Furnaces of the most approved form

And on the most economical principle,

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Copper, Lead, Gold, Silver,

Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

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Assaying eight per cent. and upwards of Copper to be on.

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FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with CALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Model on exhibition at foot of stairs in the Pavilion. Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.

San Francisco, Aug. 22d, 1865. 10v11-3m

THE PACIFIC COD FISHERIES.—The cod fisheries of the Ochotsk Sea become more and more promising, as an element contributing to our prosperity, as the capital and enterprise invested in it swells in volume. Two years ago a single vessel wandered off to the then unknown banks, on an uncertain adventure, and, in a round voyage of three months, brought in a cargo of codfish, which opened the eyes of some of our incredulous merchants. Encouraged by the results of this first experiment, the same parties fitted out a second expedition, consisting of two small vessels, and the enterprise was again crowned with the most gratifying success. This was the small beginning of what is rapidly growing into an important trade. Eight hundred quintals of codfish, direct from the Ochotsk Sea, were landed at Clay street wharf, on Tuesday last, for J. G. Marks & Co. Thus we see new resources constantly developing, as the result of the spirit of enterprise and adventure that pervades our people.

THE Cole Tunnel has pierced the base of Mount Davidson, Nevada, for a distance of 1,157 feet.

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TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $350

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3v11 REV. A. MASNATA, S. J., President.

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PATENT BLASTING POWDER.

Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets.

Room No. 9, with San Francisco Chemical Works,

CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2v11qy

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Steam Boiler & Sheet Iron Works.

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GEORGE T. PRACY,

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STEAM ENGINE, FLOUR AND SAW MILL

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CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

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☞ All Jobs promptly attended to. Prices moderate.—☜ No. 125 First street, opposite Minna next door to Pacific Foundry. 12tf

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All kinds of HIGH AND LOW PRESSURE BOILERS built according to drawing or specification, and sheet-iron work executed at the shortest notice, on the most reasonable terms. 1df

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The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting machinery of the most approved construction, Flour, Saw and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully solicited.

GODDARD & COMPANY.

Machinists and Foundries.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.

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Corner First and Mission streets,

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ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Quartz Mills, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Ry. Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.

Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter. Also, Scott and Eckart's Adjustable Cut-off Regulator—best in use; W. R. Eckart's Balance Valve for Stationary Engines; Woodward's Patent Steam Pump and Fire Engine.

Boilers.

Locomotive, Fine, Tubular, Upright, Cylinder and Cornish, and every variety of Boiler Work. All sizes of tubes and pipes for pumps.

Amalgamating Machinery.

Wheeler & Randall's Improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Beldin's pan, Yeager's tubs, Prater's concentrators, Wahlee's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron Frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

BLAKE'S PATENT QUARTZ CRUSHERS, of all sizes.

Oil Boring Tools and Machinery,

Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.

We have the facilities for working gold and silver quartz and other ores, to test their value, by the hundred weight or ton.

Russia Iron Screens, of all degrees of fineness and of all qualities of iron.

All work done in the best manner at the lowest cash prices.

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—AND—

MACHINE WORKS,

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EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as

Steam Engines and Boilers, Flour, Saw and Quartz Mills,

Machinery, Mining Pumps, Amalgamators,

Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.

All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.

HOWLAND, ANGEL & KING.

Vulcan Iron Works Company

[ESTABLISHED 1850.]

First, Natoma and Fremont Streets.

IRON FOUNDERS,

Steam Engine and Locomotive

BUILDERS,

Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition o new shops on Fremont street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as

Mining, Steamship, and Steamboat Machinery,

Railroad Machinery, Locomotives, Car Trucks, Car Wheels, Housings and Irons; and Flouring Mills, Quartz Mills, Sugar Mills, Saw Mills,

Manufacturing Machinery of Every Kind.

Sole Manufacturers of

HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR

BETTS'S AMALGAMATOR;

HERSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;

BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;

FAUQUIER'S QUARTZ GRINDER AND WATER WHEEL;

JONVAL'S IMPROVED WATER WHEEL;

STEVEN'S PISTON PACKING RINGS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.

Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

☞ As a sample of our manufacture, we invite the attention of visitors at the Fair to our Double-piston Engine, by which the DAILY FAIR PRESS is propelled, in the Pavilion.

NOVELTY IRON WORKS,

Steam Engine, Boiler and

Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a SURE REMEDY. Send for a Circular.

E. T. STEEN.

39 and 41 Fremont, and 42 and 44 Beale Sts.,

SAN FRANCISCO 21v9tfq

FULTON

FOUNDRY AND IRON WORKS.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 13qy

W. T. GARRATT,

City

BRASS AND BELL FOUNDER,

Cor. Market and First Sts., opposite Oriental Hotel, SAN FRANCISCO.

Manufacturer of Brass, Zinc, and Anti-Friction or

Babbet Metal Castings;

CHURCH AND STEAMBOAT

BELLS,

TAVERN AND HAND BELLS AND GONGS,

FIRE ENGINES, FORCE AND LIFT PUMPS,

Steam, Liquor, Soda Oil, Water and Flange Cocks, and Valves of all descriptions, made and repaired. Hose and all other Joints, Spelter, Solder, and Copper Rivets, &c. Gauge Cocks, Cylinder Cocks, Oil Globes, Steam Whistles,

HYDRAULIC PIPES AND NOZZLES

For Mining purposes, Iron Steam Pipe furnished with Fittings, &c. Coupling Joints of all sizes. Particular attention paid to Distillery Work. Manufacturer of "Garratt's Patent Improved Journal Metal."

☞ Highest Market price paid for OLD BELLS, COPPER AND BRASS. ☜ 6tf

PALMER, KNOX & CO.,

Golden State Iron Works,

Nos. 19, 21, 23 and 25 First Street,

SAN FRANCISCO.

MANUFACTURE ALL KINDS OF

MACHINERY,

STEAM ENGINES AND QUARTZ MILLS

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets stuck or leaky.

WHEELER & RANDALL'S

NEW GRINDER AND AMALGAMATOR,

HEPBURN & PETERSON'S

AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies.

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

SAN FRANCISCO

Foundry and Machine Works,

N. E. Cor. Fremont and Mission streets,

Manufacturers of

Marine and Stationery Engines,

Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.

—ALSO—

Wine, Cider, Cotton and Tobacco Presses of the latest Improved Patterns.

Brodie's Improved Patent WIND BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Baux & Guiod's Amalgamator and Separator; W. W. Tupper's Patent Sectional Ornie Bar; Coal Oil Well Boring Machinery complete, on hand.

STEAM ENGINES AND BOILERS,

Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.

MACHINERY, OF ALL DESCRIPTIONS,

Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates. 6v11-1y

DEVOE, DINSMORE & CO.

UNION IRON WORKS,

Sacramento.

WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Front Street, between N and O streets,

6v10 SACRAMENTO CITY.

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, San Francisco. qv29-t

JOHN LOCHHEAD'S

STEAM ENGINE WORKS,

Beale Street, near Mission Street,

SAN FRANCISCO.

Steam Engines of every description built to order—Marine Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer.

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Emilia Mining Company, State of Guerrero, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of August, 1865, an assessment of twenty-five cents per share was levied upon the assessable stock of said company, payable on the 17th day of August, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, No. 55 Montgomery Block, in the city and county of San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, southeast corner of Montgomery and Washington streets. Office hours, 10 A. M. to 3 P. M.

San Francisco, August 16, 1865. au19

POSTPONEMENT.—The advertisement of stock delinquent on the above assessment is hereby postponed until Saturday, September 23d, 1865, and the sale thereof until Saturday, October 7th, 1865. By order of the Board of Trustees.

se16 T. B. CUNNINGHAM, Secretary.

Good Hope Gold and Silver Mining Company, Alpine District, Alpine County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 11th day of September, 1865, an assessment (No. 9) of fifty cents per share was levied upon the capital stock of said company, payable on or before the 9th day of October, 1865, in United States gold and silver coin, to the Secretary, at his office, 526 Montgomery street, San Francisco, or to H. MORRIS, at Markleeville. [*Delinquents will be held for accruing costs after the 9th of October.*]

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale, By order of the Board of Trustees.

PRESTON MORRIS, Secretary.

Office, 526 Montgomery street, San Francisco. se16

Kimblin Ravine Company, Sierra County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 12th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
J Bandmann (owned by A Menle)	not issued	4	$100 00
A M Gilman	not issued	4	100 00
W Bryarly	not issued	4	100 00
F v Stech	not issued	4	100 00
A Aiers	not issued	1	25 00
F v Richthofen	not issued	3	75 00
F v Richthofen	not issued	4	100 00

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Edwards, Olney & Co., at 826 Montgomery street, San Francisco, California, on the 21 day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

H. NIELSEN, Secretary.

Office, 210 Front street, San Francisco. se16 3w

Leland Gold and Silver Mining Company, San Francisco District, Mohave county, Arizona Territory.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 17th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
L P Ward	74	40	$40 00
Thomas Stewart	48	10	2 50
William Packard	50	50	12 50
William Packard	62	60	12 50
William Packard	53	50	12 50
William Packard	88	100	25 50
William Packard	108	11	2 75

And in accordance with law and an order of the Board of Trustees, made on the 17th day of August, 1865, so many shares of each parcel of said Stock as may be necessary, will be sold at public auction at the Office of the Company, No. 302 Montgomery street, San Francisco, on the 2d day of October, 1865, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

WM. HOLLIS, Secretary.

Office, Room No. 2 (3d floor), 302 Montgomery street, San Francisco. se16 3w

Lady of the Lake Gold and Silver Mining Company, San Francisco District, Mohave county, Arizona Territory.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 17th day of August, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
William Packard	113	261	$65 25
A W Webb	48	20	5 00
A W Webb	49	10	2 50
A W Webb	87	65	16 25
A W Webb	88	35	8 75

And in accordance with law, and an order of the Board of Trustees, made on the 17th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, No. 302 Montgomery street, San Francisco, Cal., on the 2d day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

WM. HOLLIS, Secretary.

Office, Room No. 2 (third floor), 302 Montgomery street, San Francisco. se16-3w

Lady Franklin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment (No. 5) levied on the 15th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names	No. Certificates.	No. Shares.	Amount.
John Bardsley	not issued	2½	$1 25
Crowson Smith	not issued	2	1 00
C Larson	not issued	70½	35 25
John C McCauley	38	4	2 00
Estate of Henry Mercer	124	5	2 50
Geo Loring	163	6	2 50
Maria Silverberg	164	3	1 50
F G Burns	175	3½	1 75
Wm James Thomas	201 10 shares	15	7 50
	202 5 shares	10	6 00
W H Sawyer	217	10	6 00
M Silverstein	2.1	1	50
J Halk	222	4	2 00
T K Wilson	49, 1½ share		
	50, 1 share	2½	1 25

And in accordance with law, and an order of the Board of Trustees, made on the 15th day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Messrs. Edwards, Olney & Co, at the office of the Secretary, No. 305 Montgomery street, San Francisco, California, on the 6th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, corner of Pine, San Francisco, California. se16 3w

Nevada Gold and Silver Mining Company, Lander county, Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 16th day of August, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Bradley, H W	71	15	$7 50
Brown, E J	96	20	10 00
Daniel, McD	6	7½	3 75
Drinkelspiel, L	78	10	6 00
Francis, D B	7	7½	3 75
Greene, Sam'l H	70	19	9 50
Harker, W B C	47	5	2 50
Heath, R W	10	22	11 00
Knox, J W	87	15	7 50
Lindenberger, T E	1	7½	3 75
Lindenberger, T E	66	2½	1 25
Mills, H O	30	6	2 50
Murphy, Daniel	76	16⅔	8 33
Upton, M	68	10	5 00
Wightman, Jno	15	15	7 50
Waterman, T A	33	25	12 50
Waterman, T A	34	25	12 50
Waterman, T A	35	20	10 00
Waterman, T A	38	10	5 00
Waterman, T A	37	5	2 50
Waterman, T A	38	5	2 50
Waterman, T A	39	5	2 50
Waterman, T A	40	6⅔	3 33
J J Williams	69	7½	3 75

And in accordance with law, and an order of the Board of Trustees, made on the 16th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Jones & Bendixen, auctioneers, at the office of the Company, on the 6th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street (up stairs). se16-3w

North America Tin Mining Company, San Juan del Rio, State of Durango, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 1st day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

se16 I. N. THORNE, Secretary.

Old Colony Silver Mining Company, Austin, Reese River Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of September, 1865, an assessment of six dollars per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 523 Montgomery street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. O. HOWARD, Secretary.

Office, 523 Montgomery street, San Francisco. se16

Pizarro Silver Mining Company. Cortez Mining District, Lander county, Nevada

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of November, 1863, an assessment of ten cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees

C. H. BURTON, Secretary.

Office, Room 4, northwest corner of Clay and Front street, San Francisco, Cal. se16-4w

Simpson Mining and Milling Company, Mokel. umne and Excelsior Districts, Alpine county, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 13th day of September, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable on the 14th day of September, 1865, in United States gold and silver coin, to the Secretary, at the Company's office, No. 55 Montgomery Block, in the city and county of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, S. E. corner of Washington and Montgomery streets. Office hours, 10 A. M. to 3 P. M. San Francisco, September 13, 1865. se16

Office of the United States Gold and Silver Mining Company, San Francisco, Cal.—Location of Mines: in Santa Fe and Ravenswood Mining Districts, Lander county, Nevada.

Notice is hereby given, that in accordance with a resolution of the Board of Trustees of the above named Company, passed on Wednesday, the 6th day of July, 1865, and in accordance with the by-laws of said Company, a meeting of the stockholders of the above named Company will be held at the office of the Company, No. 605 Clay street, in this city, on Thursday, the tenth day of August next, at 7½ o'clock P. M., for the purpose of authorizing and empowering the Trustees of said Company to sell one or more of the mines belonging to the said United States Gold and Silver Mining Company, and for the purpose of changing the by-laws of the same, and for the transaction of any and all business that may legally come before the meeting. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

San Francisco, July 6, 1865. jy8 5w

The above meeting is hereby adjourned to the 24th inst., at the same hour and 540 Clay street. By order of the Board of Trustees.

au 12 J. T. PENNELL, Secretary pro tem.

The above meeting is hereby adjourned to the 4th day of September, at the same hour, and 540 Clay street. By order of the Board of Trustees.

au26 J. T. PENNELL, Secretary pro tem.

The above meeting is hereby adjourned to the 25th day of September, at the same hour, and 540 Clay street. By order of the Board of Trustees.

se18 J. T. PENNELL, Secretary pro tem.

United States Mining Company, Virginia Dis. trict, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of September, 1865, an assessment of 25 cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold or silver coin, to the Secretary, or to JAS. V. COFFEY, at Virginia.

Any stock upon which said assessment shall remain unpaid on Monday, the 16th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. M. BUFFINGTON, Secretary.

Office, No. 10 Government House, corner Sansome and Washington streets, San Francisco, Cal. se16

Vulcan Mining Company, Santa Fe Min. ing District, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 16th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount
D E Waldron	2	90	$45 00
D H Hall	42	50	25 00
D H Hall	43	50	25 00
D H Hall	188	35	17 50
G H Willard	53	34	17 00
James Morgan	143	50	25 00

And in accordance with law, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Maurice Doro & Co., No. 327 Montgomery street, San Francisco, California, on the thirtieth day of September, 1865, at the hour of twelve o'clock, noon, of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. H. BURTON, Secretary.

Office, Room 4, N.W. corner Clay and Front street, San Francisco, Cal. se18-3w

Walpi Gold and Silver Mining Company, Moss Lode, San Francisco Mining District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of September, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said Company, payable on the 16th day of September, 1865, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 30th day day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

H. B. CONCDON, Secretary.

Office, 620 Washington street (Room 5). se16

Wide West Gold and Silver Mining Company, Silver Mountain District, Alpine County, California.

Assessment No. 4.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, or to T. L. JACKSON, Superintendent, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 30th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, 410 Montgomery street, San Francisco.

NOTICE.—At the above meeting Assessment No. 2 of 50 cents per share, levied August 22d, 1864, and assessment No. 3, levied March 18th, 1865, also for 50 cents per share, were rescinded, and stockholders having paid the same, or any portion thereof, will be credited on above Assessment No. 4 accordingly.

se16 W. D. ROOT, Secretary.

BY AUTHORITY OF THE STATE OF CALIFORNIA

Having fully complied with the law by a deposit of **$525,000** bonds of the State of California and the United States

BIGELOW & BROTHER,

GENERAL INSURANCE AGENTS,

FIRE, MARINE AND LIFE INSURANCE,

Capital Represented.....$15,000,000.

California Deposit..... $525,000

Office Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.

LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets..... $1,500,000
HOME INSURANCE COMPANY, of New York, Assets..... 3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets..... 2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets..... 1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets..... 600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets..... 600,000
CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.

Policies issued on Freights, Cargoes, and Treasure, from and to All Parts of the World. Voyage War Risks taken on Hulls.

Fire Insurance Policies issued on all kinds of Insurable Property in the Country or City. Losses Payable in Gold Coin of the United States.

We represent the Oldest and Best Companies in the United States, and offer as favorable terms as any agency on this Coast.

Losses paid immediately on adjustment.

BIGELOW & BROTHER,

17-6m **General Agents**

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

Mining Notices--Continued.

New Mining Advertisements to be found under another heading.

Apollo Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable on the 9th day of September, 1865, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. se9

Baltimore Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 16th, 1865, at 10 A. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Black Ledge Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of two ($2) dollars per share was levied upon the capital stock of said Company, payable on the 9th day of September, 1865, in United States currency, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 24th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. se9

Blue Ledge Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 9th day of September, 1865, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. se9

Dunkirk Gold and Silver Mining Company, Reese River District, Lander county, Nevada.

Notice is hereby given, that a Special Meeting of stockholders of the above named company, will be held at the office of the company, No. 312 and 314 Front street, San Francisco, on Saturday, the 23d of September, 1865, at 2 o'clock, P. M., for the election of Trustees.

se9td (Signed.) J. B. COFFIN, President.

El Dorado Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Saturday, September 16th, 1865, at 2 P. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Eagle Quartz Mining Company, Amador County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 29th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
J Arnold	91	5	$3 75
J P Bush	10	100	75 00
J P Bush	11	10	7 50
J P Bush	103	10	7 50
N Blatstone	22	50	37 50
K P Cutter	151	15	11 25
E L Goold	43	50	37 50
E L Goold	113	455	341 25
S P Harris	137	100	75 00
G S Haskell	30	10	7 50
G S Haskell	35	20	15 00
H S Hudson	01	10	7 50
S Henry	93	10	7 50
T E Jones	27	10	7 50
A Lull	124	50	37 50
T Pritchard	58	10	7 50
I Rowell	8	25	18 75
T R Ruffley	29	10	7 50
P Robinson	107	84	63 00
E Schell	71	15	11 25
E D Waters	150	100	75 00
E D Waters	18	20	15 00
E D Waters	19	20	15 00
E D Waters	09	83	62 25

And in accordance with law, and an order of the Board of Trustees, made on the 29th day of July, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of Edwards, Olney & Co., 826 Montgomery street, San Francisco, on the 22d day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

G. PARDOW, Secretary.

Office, 15 Montgomery Block, San Francisco. se2-3w

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Edward Everett Silver Mining Company, Cortez Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of April, 1864, an assessment of twenty cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner Clay and Front streets, San Francisco, California. se9 5w

Globe Gold and Silver Mining Company, Monitor District, Alpine county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 23d day of August, 1865, an assessment of two dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, or to ISAAC S. POWERS, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 23d day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Thursday, the 12th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

V. B. POST, Secretary.

Office, 1421 Taylor street, San Francisco, Cal. au26-5w

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on September 17th (Sunday)—changed to Monday, September 18th, 1865, at 2 P. M. of said day.

au12-4w W. D. ROOT, Secretary.

Office of the Great Western Tunnel and Mining Company.—San Francisco, September 5th, 1865.

The Annual Meeting of the stockholders of the above Company will be held at the office of the President, Dr. I. Rowell, No. 520 Kearny street, San Francisco, on Thursday, the 5th day of October, 1865, at 10 o'clock A. M., at which the attendance of all stockholders is requested.

se9-td JOS. C. FORD, Secretary.

Hancock Copper Mining Company, Low Divide District, Del Norte county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of fifteen cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, 609 Market street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

S. S. SWEET, Secretary.

Office, 609 Market street, San Francisco, Cal. se9

Imperatrice Eugenie Gold and Silver Mining Company—Location of Works: Blue Mountain Mining District, county of Calaveras, State of California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the first day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Baulot, C	217	20	$5 00
Breed, E A	305	5	1 25
Bobenrieth, John	299	10	2 50
Caruin, J	278	50	12 50
Chanvet, Juslis	304	25	6 25
Day, T H, Miss	277	10	2 50
Dissat, Antoina	210 211 242	150	37 50
Guenette, Eug	294	5	1 25
Hartman, H	225 298 307	40	10 00
Hernster, Geo	310	10	2 50
Lawlor, Geo W	224	10	2 50
Marchand, E	295	35	8 75
Marchebout, A	228	25	6 25
Morrow, Geo	213	25	8 25
Roth, Louise	292	5	1 25
Sommenberg, L B	258 300		
	306 309	100	25 00
Sajous, Marie	293	5	1 25
Terme, Louise	312	25	6 25

And in accordance with law, and an order of the Board of Trustees, made on the 1st day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on Tuesday, the 19th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

A. KOENIG, Secretary.

Office, 804 Montgomery street, San Francisco. sep2-3w

Illinois Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 19th, 1865, at 10 A. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Joe Lane Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 4th day of September, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable on the 9th day of September, 1865, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. se9

Jewett Gold and Silver Mining Company, Gold Hill District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of September, 1865, an assessment of nine ($1) dollar per share was levied upon the assessable capital stock of said company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Thursday, the 4th day of October, 1865, will be advertised as delinquent, and unless payment shall be made before, will be sold on Saturday, the 21st day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. M BURNHAM, Secretary pro tem.

Office, 509 Clay street, San Francisco. se9

La Favorita Mining Company, Moctezoma District, Sonora, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 3d day of August, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 31st day of August, 1865, in United States gold coin, to the Secretary, 429 Sacramento street, San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 30th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 14th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

E. WASSERMAN, Secretary.

Office, 429 Sacramento street, San Francisco. se2

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander County, Nevada.

All persons are hereby cautioned not to purchase the following described stock, sold for delinquent assessment No. 6 September 6th, 1865, as said stock will not be transferred on the books of the Company, viz:

No.	Shares.	In name of	Shares taken.
51	7½	James H Hardy	2½
69	0½	George Work	4½

San Francisco, Sept. 8th, 1865.

E. J. DRINKHOUSE, Secretary.

Office, 228 Front street, San Francisco, Cal. se9 2w

Porter Gold and Silver Mining Company, Virginia District, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of July, 1865, an assessment of five dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at 534 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 14th day of October, 1865, to pay the delinquent assesment thereon, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. W. WESTON, Secretary.

Office, 534 Clay street, San Francisco. jy22

This assessment is re-advertised on account of omission to advertise the delinquent list at the proper time. By order of the Board of Trustees.

C. W. WESTON, Secretary.

San Francisco, September 1, 1865. se2

Scott Mining and Exploring Company, Humboldt county, State of Nevada.

NOTICE.—There are delinquent, upon the following described Stock, on account of Assessment levied on the 5th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
E A Scott	10	300	$240 00
E A Scott	11	200	160 00
E A Scott (bal due)	144	4	1 60
E A Scott	143	25	20 00
E A Scott	142	25	20 00
E A Scott	187	25	20 00
E A Scott	188	50	40 00
John Barry	113	50	40 00
John H Holman	180	50	40 00
George W Dam	148	2	1 00
George W Dam	184	2	1 60
Linehan & Wisoman	41	5	4 00
Louis Glassea	42	10	8 00
Melina Charreau	48	5	4 00
Albert Anbert	49	5	4 00
J M Bowles	181	25	20 00
N Fike	180	10	8 00
Steve A Rendell	191	15	12 00

And in accordance with law, and an order of the Board of Trustees, made on the 5th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Maurice Dore & Co., No. 427 Montgomery street, San Francisco, on the 25th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

V. B. POST, Secretary.

Office, 1421 Taylor street, San Francisco, Cal. se9 3w

Santa Cruz Petroleum Oil Works Company—Location: Santa Cruz County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of August, 1865, an assessment (No. 13) of thirty (30) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, R. WEGENER, 415 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of September, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. WEGENER, Secretary.

Office, 415 Montgomery street, San Francisco, Cal. au19

POSTPONEMENT.—The advertisement of stock delinquent on the above assessment is hereby postponed until Saturday, the 23d day of September, 1865, and the sale thereof until Saturday, the 7th day of October, 1865. By order of the Board of Trustees.

se16 R. WEGENER, Secretary.

Silver Prize Gold and Silver Mining Company, Silver Mountain District, Alpine county, California

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Wednesday, September 20th, 1865, at 2 P. M. of said day.

au12 4w J. WARREN CLARK, Secretary.

Segregated Belcher Mining Company, Gold Hill District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of September, 1865, an assessment of two dollars per share was levied upon the capital stock of said Company, payable on the 11th day of September, 1865, in United States gold and silver coin, to the Secretary, 318 California street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOHN F. LOHSE, Secretary.

Office, No. 318 California street (up stairs), San Francisco, California. se9

Silver Creek Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Tuesday, September 19th, 1865, at 2 P. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Santa Cruz Petroleum Oil Works Company—Location: Santa Cruz county, California.

The third Annual Meeting of the stockholders of the above Company will be held at their office, 415 Montgomery street, San Francisco, California, on Tuesday, the 26th day of September, 1865, at 8 o'clock P. M., for the purpose of electing Trustees to serve for the ensuing year and such other business as may properly come before it.

LEANDER RANSOM, President.

R. WEGENER, Secretary.

N. B.—All stockholders who cannot be present are earnestly requested to file their proxies with the Secretary au12

St. Clair Consolidated Silver Mining Company Smoky Valley District, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 31st day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares	Amount.
W Beck	39 40	200	$100 00
James Phelan	48	200	100 00
J D Boyd	45	200	100 00

And in accordance with law, and an order of the Board of Trustees, made on the 1st day of September, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction at the salesroom of Edwards, Olney & Co., No. 626 Montgomery street, San Francisco, on the 16th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

AUG. KUNAST, Secretary.

Office, 540 Washington street, San Francisco. se2-3w

Table Mountain Copper Mining Company, Stanislaus District, Calaveras county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 22d day of August, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, in San Francisco, or to J. M. PIKE, Superintendent, at Copperopolis.

Any stock upon which said assessment shall remain unpaid on Friday, the 22d day of September, 1865, will be advertised on Saturday, the 23d day of September, 1865, as delinquent, and unless payment shall be made before, will be sold on Thursday, the 12th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco, Cal. se9

Tip Top Gold and Silver Mining Company, Silver Mountain District, Alpine county, California.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on Monday, September 18th, 1865, at 12 M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Taurus Mining Company, Santa Fe Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 29th day of August, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 14th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner Clay and Front streets, San Francisco, Cal. se2

Wisconsin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

The Annual Meeting of the stockholders will be held at the office of the Company, No. 410 Montgomery street, San Francisco, on September 17th (Sunday) changed to Monday, September 18th, 1865, at 10 A. M. of said day.

au12-4w J. WARREN CLARK, Secretary.

Yankee Blade Tunnel Company, Reese River District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 4th day of September, 1865, an assessment of thirty (30) cents per share was levied upon the capital stock of said Company, payable on the 6th day of September, 1865, in United States gold and silver coin, to the Secretary, at his office, 305 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 27th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, San Francisco. se9

BEAUTIFUL EXTRACT.—The following is from the Wisconsin *Farmer*: "Not to the majority of men who we are satisfied think that soil is nothing but dirt, but to the chemist, who knows its origin, its nature, and its capabilities, it is a wonderful mixture of three beautiful elements, which in their ever-varying forms become the ambient air, the liquid ocean, the precious opal, the amethyst, and the still more precious diamond; or delicate blue bell and violet, the amarath, the lily, and the rose, the spear of blue grass and the cedar of Lebanon; or again, the ruby lip, the love-lit eye, the noble palpitating heart, and more wonderful brain. These are the jewels of which the soil is composed, and out of which the husbandman strives to force the food hunger claims. Henceforth, as he turns the furrow of his field, let the sleep of his thought be broken by the reflection that the earth thus stirred up by his ploughshare is doubtless composed of his ancestral heroes, whose deeds are the history of the past, and whose mortal remains are the plastic material out of which are building the bodies of men to day."

SILICATE OF METHYL AND SILICIAN METHYL.—Friedal and Crafts have announced to the Paris Chemical Society that they have succeeded in forming silicate of methyl by the action of perfectly pure and dry wood spirit on chloride of silicium. By heating together zinc methyl and chloride of silicium they obtained silicium methyl.

MINING LAWS AND FORMS.

Third Edition revised and enlarged.

Compiled by H. R. CONGDON.

THIS Edition contains all the laws of the *STATE OF CALIFORNIA* and *NEVADA TERRITORY*, relative to Mining Corporations together with the Mining Ordinances of Mexico, complete; Digest of Decisions of the Supreme Court; Forms etc. 16 mo. flexible cloth, 192 pp. $2.50.

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PARAGON PETROLEUM COMPANY.

Incorporated June 2, 1865,

Under the Laws of the State of California.

CAPITAL STOCK,

$600,000.

NO. SHARES.....6,000

Par Value.....$100

OFFICERS:

President.....ROBERT KIRK

Treasurer.....WM. H. TOBEY

Secretary.....D. S. CUTTER

TRUSTEES:

ROBERT KIRK, T. O. DUFF, WM. H. TOBEY.

OFFICE:

t WM. H. TOBEY & CO.'S Petroleum Agency, Room No. 28 Government House, corner of Sansome and Washington streets, SAN FRANCISCO.

The claims of this Company consist of ONE HUNDRED AND SIXTY (160) ACRES of oil land, favorably located on the North Fork of the Mattole river, adjoining the grounds of the Union Mattole Company, Mattole District, Humboldt county, California. The Company are now actively engaged in the development of the claims.

KELLOG CREEK PETROLEUM AND MINING COMPANY.

INCORPORATED JULY 11TH, 1865,

Under the Laws of the State of California.

NO. SHARES.....10,000

Par Value.....$50 00

W. F. BRANDRETH.....President

J. M. BUFFINGTON.....Secretary and Treasurer

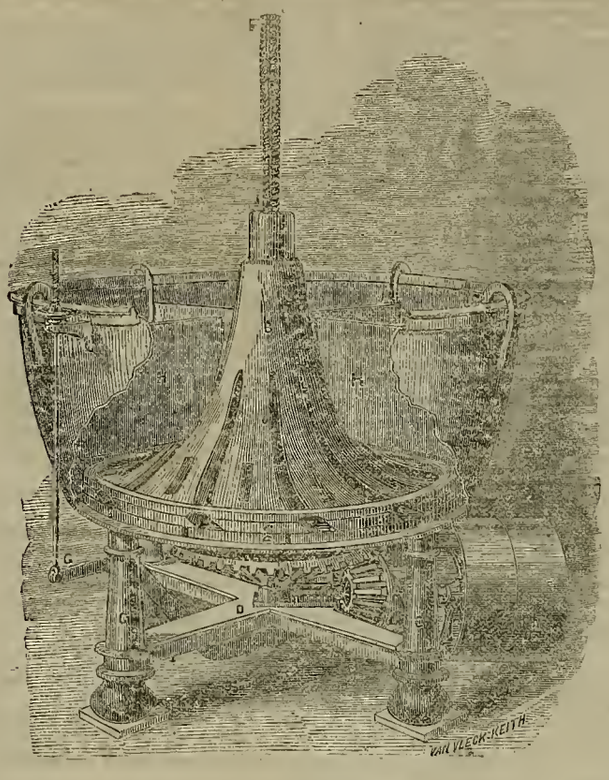
OFFICE—Room No. 10 Government House, corner of Sansome and Washington Sts., San Francisco.

The claims of this Company consists of SIX HUNDRED AND FORTY (640) ACRES, situated on Kellog Creek, in the Marsh Brook Mining District, Contra Costa county, Cal.

One thousand (1,000) shares of the contingent fund is offered at the low price of ONE ($1.00) DOLLAR per share, full paid, all the stock being unassessable. All who wish to purchase, or make any enquiry concerning the Company, will please call on the Secretary,

J. M. BUFFINGTON,

2v11 Corner of Sansome and Washington streets.



THE EXCELSIOR GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

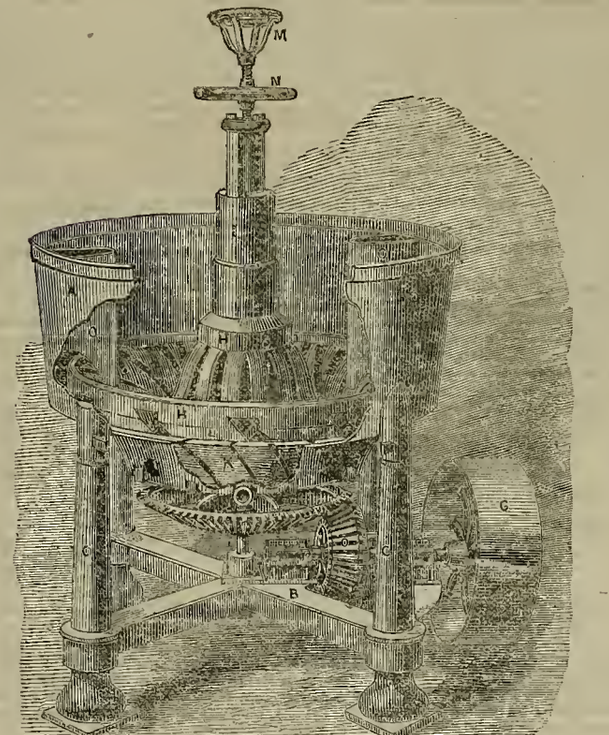
Union Iron Works and Golden State Iron Works.

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.



THE WHEELER & RANDALL Grinder and Amalgamator

In the engraving herewith exhibited, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Plates.

The attention of the Public is respectfully called to these facts:

1st. That the Mechanical work accomplished by differently formed grinding plates, having the same diameter, weight, hardness, and revolving at the same velocity, is as follows, to wit:

The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory-formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

2d. That as a whole, the Wheeler & Randall Grinder and Amalgamator is one of the most simple, compact, substantial, convenient and efficient pans in use.

☞ Patent applied for.

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UNION IRON WORKS..... "
MINERS' FOUNDRY..... "
SAN FRANCISCO FOUNDRY..... "
PRESCOTT & SCHEIDEL.....Marysville.
OREGON IRON WORKS.....Portland, Oregon.

WHEELER & RANDALL, Inventors.

SAN FRANCISCO, JUNE 13, 1865.

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San Francisco, March 16, 1865. 11v10-tf

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A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at **TUBBS & CO.'S,**

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14v10

QUICKSILVER

FOR SALE BY

S. F. BUTTERWORTH

Northwest cor. Battery and California sts.

v9-19 SAN FRANCISCO.

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSITON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 516 Market street above First (opposite the Oriental Hotel), San Francisco.

25v10

Poisonous Mushrooms.—Two gentlemen, M. M. Sicard and Schoras, have chemically examined some poisonous mushrooms, and have succeeded in extracting an extremely poisonous substance, which appears to have basic chemical properties. The physiological effects seem to resemble those of curarine. We have not yet seen the process by which this poison is isolated.

Agent Wanted.

A good Canvassing Agent can secure permanent and remunerative employment by calling at the office of the Mining and Scientific Press, 505 Clay street.

DEWEY & CO.,
Publishers and Job Printers,
Office Mining and Scientific Press, San Francisco.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible

HATS, HATS.

The Largest Assortment
—OF—
HATS AND CAPS
—IS AT—
Meussdorffer's Hat Manufactory,
635 and 637 Commercial Street,
Between Montgomery and Kearny,
SAN FRANCISCO,
WHICH HE OFFERS FOR SALE
WHOLESALE AND RETAIL.

NEW DISCOVERY
FOR DESULPHURIZING AND DECOMPOSING
METALLIFEROUS ORES,
—SUCH AS—
Auriferous Sulphurets, Arsenites or Antimonial Tellurie, Gold and Silver Ores.

By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by

DANIEL ROSS,
Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me.

EDWARD ARNOLD,
Inventor and Patentee.
Monitor, Alpine county, Cal.
W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11

TEETH

Extracting Without Pain.
Drs. Whitcomb & Dyer,
DENTISTS,
[Successors to W. H. Irwin.]
No. 205 Third Street, near Howard,
v9 SAN FRANCISCO.

A German Mining Engineer,
LATELY FROM THE EAST,
Desires a Place in a Mine, Assay Office, or Chemical Laboratory.
Address O. H., office of this paper. 4vll-1m

Machinery.

ATTENTION, MINERS!
LINSCOTT'S PATENT
CHAMBER DRILL.
Great Improving in Blasting.
W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.

D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ⅛ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th. Illustrated in the Mining and Scientific Press, April 9th, 1864. HEPBURN & PETERSON.

nov8 3m*

NOTICE TO MINERS.
NEW QUARTZ MILL.

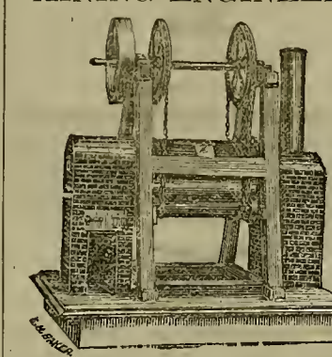
THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Crocodile Quartz Crusher; his Pulverizer; and his improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast, amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to inspire persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. B. FAUCHERY, Engineer,
24v9

W. BRUCKNER,
MINING ENGINEER,



Begs leave to call the attention of the mining public to his apparatus for ROASTING SULPHURETS, one of which is now being exhibited at the Mechanics' Fair. Parties wishing to test their ores by this roasting process are requested to leave their orders at the Mechanics' Fair Daily Press office. 7df

BLAKE'S
QUARTZ BREAKER
Is now extensively used for breaking hard masses of
Quartz or Ores
To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA, WASHOE, ENGLAND, FRANCE,
— AND —
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned.
Address, BLAKE & TYLER,
Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.
4v10

VARNEY'S
PATENT AMALGAMATOR.
These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Sellers made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

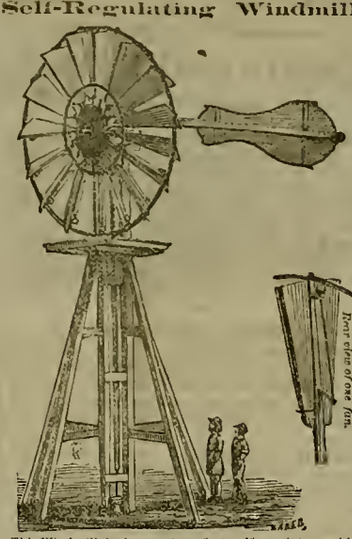
Mill men are invited to examine these pans and sellers for themselves, at the PACIFIC FOUNDRY,
1v1 San Francisco.

NOTICE.

The undersigned having purchased the EXCLUSIVE RIGHT in and for the State of California, for the
Manufacture and Sale of
WINHAM'S
PATENT HOSE COUPLING,
Hereby caution all parties against the manufacture or purchase of the above Hose Couplings, except through us, as any infringement will be prosecuted to the full extent of the law.

PRESCOTT & SCHEIBEL,
Marysville Foundry
March 31st, 1865. 13v10

ATWOOD'S
Self-Regulating Windmill.



This Windmill is the most perfect self-regulator yet invented, and is capable of being adjusted to any desired speed. Manufactured at
222 Mission Street, North side, below Beale,
SAN FRANCISCO.

N. B.—We also manufacture DICKERSON'S SELF-REGULATING MILLS; also, Rotary and Stationary Mills of different styles and prices, varying from $50 to $500 each; also round and square Water Tanks made to order.
222 Mission street, below Beale. 5

HUNT'S
IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS
Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN
HORSE POWER
For Sawing Wood.
ALSO, THE
Self-Regulating Horse Power
Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.
ALL WORK WARRANTED.
☞ For further Particulars see small circulars. ☜
E. O. HUNT,
No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

NEW YORK PRICES. NEW YORK PRICES.
WATCH REPAIRING AT NEW YORK PRICES. WATCH REPAIRING AT NEW YORK PRICES.

C. E. COLLINS,
No. 602 Montgomery street, San Francisco.
EXCLUSIVE AGENT
— FOR THE —
AMERICAN
WATCH FACTORY.
A large assortment of these
Superior Watches,
In Gold and Silver Cases,
Constantly on hand, and sold at Factory prices. Also,
ENGLISH AND SWISS WATCHES,
Imported directly from the Manufacturers.
The American Company are now making
VERY FINE WATCHES FOR LADIES.
☞ A large assortment of Gold Chains and Jewelry. 25v10-6m

HUNT'S PATENT
Circular Sweep Horse-Powers,
For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.
HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by
E. O. HUNT,
7v10 28 Second street, San Francisco

DENIS WHELAN,
Fashionable Boot Maker
REPAIRING NEATLY DONE, AT SHORT NOTICE.
No. 17 Fourth Street,
Near Market street, San Francisco.
15v10-1m*

Equal to the Best Overshot Wheel
POWER PLEDGED

IN EXISTENCE.

LEFFEL'S
AMERICAN DOUBLE TURBINE.

The DOUBLE TURBINES, so long expected, have arrived at last, and orders can now be filled. We have a large supply of the different sizes, from 20 inches to 72½. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

The above Wheel will be exhibited during the Fair of the Mechanics' Institute, where all may see it and hear its merits explained. This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 100 to 300 pounds will yield from 10 to 40 horse-power under a head of 25 or 50 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to
LEFFEL & MYERS,
4vll-tf Care Richards & McCroken, San Francisco.

TO QUARTZ MINERS.
Hinkle's Centrifugal Pulverizer and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUGAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steel, Nos. 37 & 39 Fremont street, between Market and Mission streets.

This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine, made entirely of iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

Mr. Hanson, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 60 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to
PHILIP HINKLE,
At the Novelty Iron Works, Nos. 37 & 39 Fremont street.
15-1m

BAUX & GUIOD'S
Separator & Amalgamator

is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine Scientific Knowledge with Practical Experience, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to rework their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jeffersonian Flume Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crail's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Hough & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address
J. B. BAUX,
Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8-6df

McCOMB'S
CUMULATIVE POWER PRESS
AND
ARROW TIE.
E. C McCOMB, Agent.
No. 1 Government House, cor. Sansome and Washington sts.
23v10 3m

HANSCOM'S CRUSHERS,
Made in sizes suitable for Breaking Quartz for Batteries; Rock for macadamizing or concrete; Copper Ore for sacking, sampling, or concentrating; also, for crushing Quartz for Arastras and Orinders. The small sizes make a most efficient Crusher for Prospectors, and are arranged to be run by Hand, Horse, Water or Steam Power. For further information address W. W. HANSCOM.
1 Golden State Iron Works, San Francisco.

RAILROAD IRON MANUFACTURE.—One of the largest and finest rolling mills in the United States is already in operation in Chattanooga, Tenn., which is daily turning out the best quality of railroad iron. A blast furnace is in contemplation, and a copper rolling mill of $1,000,000 capital is soon to be put up in the neighborhood. A large blast furnace will be commenced in the Fall on the Tennessee river above Chattanooga. Several coal companies are only waiting for machinery to commence operations in different localities around the place. The old coal mines are being reworked and new ones opened.

THE proceeds of the sale of confiscated cotton already paid into the treasury at New York, amount to over $4,000,000.

As the moon, whether visible or invisible, has power over the tides of the ocean, so the faces of the loved ones, whether present or absent, control the tide of the soul.

Away with Spectacles.

Old Eyes made new, without SPECTACLES, DOCTOR, or MEDICINE. Pamphlet mailed free on receipt of ten cents. Address E. B. FOOTE, M. D., No. 1130 Broadway, New York. 11v10-2m

CALL STABLE.

N. GISHWILLER

Would respectfully inform the public that he has opened a large and well-arranged LIVERY STABLE,

On B street, Summit City, Cal.,

(two doors below the Lake House), where good Saddle and Buggy Horses can be had at all times. Our charges will be reasonable, and we hope, by prompt attention, to merit a share of the public patronage. 10v11-3m

Ten Able-Bodied Copper Miners WANTED,

At the Bunker Hill Mine,

To work for wages (three dollars per day), or on contract.

10v11-tf RICHARD POWNING, Superintendent.

BOALT & STETEFELDT,

Metallurgists and Mining Engineers

AUSTIN, NEVADA.

Western Branch of ADELBERG & RAYMOND, No. 90 Broadway, New York. 11v11

SALMON'S

PROPELLOR AMALGAMATOR

—AND—

Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

9v11 J. & W. C. SALMON.

ALLCOCK'S POROUS PLASTERS

PAIN RELIEVING AND STRENGTHENING

In Local Affections no words can give a just idea of the comfort one of these plasters impart. They are the plaster of the day, and a fit type of our present advancement in science and art. In Asthma Cough, Kidney Affections, and local deep-seated pains, they afford permanent relief. TRY ONE, and be convinced:

PRINCIPAL OFFICE,

T. ALLCOCK & CO.,

Brandreth's Building,

New York.

W. F. BRANDRETH,

OFFICE AT

Crane & Brigham's.

SAN FRANCISCO.

☞ **FOR SALE BY ALL DRUGGISTS.** ☜

9v26q

IN THE PROBATE COURT, CITY AND COUNTY OF San Francisco, California. In the matter of the Estate of J. W. WIXEY alias J. H. CHURCHILL, deceased. Notice to Creditors—All persons are hereby notified, who have claims against the said deceased, or this estate, to present the same, with necessary vouchers, to the undersigned, at No. 604 Merchant street, San Francisco, within four months after the first publication of this notice (a summary administration of this estate having been ordered), else the same will be forever barred.

J. A. WOODSON,
Attorney for P. WARNER, Adm'r of said Estate,
604 Merchant street.
San Francisco Aug. 26, 1865. 8v11-4w

COUNTY COURT, CITY AND COUNTY OF SAN FRANcisco.—In the matter of the application of the Palmyra Mill and Mining Company for an order of dissolution.

Notice is hereby given to all persons interested that the Palmyra Mill and Mining Company have this day filed their petition in the County Clerk's office of said City and County, praying for an order of dissolution, and in pursuance of an order of the Hon. Samuel Cowles, this day made, all persons interested are hereby notified to be and appear before the Hon. Samuel Cowles, County Judge of said city and county, at his chambers, in the City Hall, on MONDAY, the 2d day of October, 1865, at 9 o'clock, A. M., of that day, to show cause, if any they have, why the prayers of said petitioners should not be granted.

Witness my hand and seal of said Court, the 30th day of August, 1865.

[L.S.] WM. LOEWY, Clerk,
By WM. HARNEY, Dep. Clerk.

1852. 1865.

Thirteenth Year of Publication.

THE GOLDEN ERA.

Founded in 1852.

The oldest Weekly Paper in the State, permanently established, and more widely circulated at home and abroad than any other on the Pacific Coast. In California, the Atlantic States, and throughout the entire field of its great and rapidly increasing circulation, THE GOLDEN ERA is universally regarded as a Literary and Family Journal of unequalled excellence. Among its contributors are all the best writers on this side of the Continent, and correspondents of distinguished ability in New York, Paris and London.

Liberal Terms to Clubs.

THE GOLDEN ERA is furnished to CLUBS at the following rates: Three Copies, one year, Ten Dollars; Five Copies, one year, Fifteen Dollars; Ten Copies, one year, Twenty five Dollars. An extra copy will be forwarded, free, for one year, to the person sending a club of five or ten subscribers.

THE GOLDEN ERA is now enlarged by the addition of eight columns to its pages—and presents fifty-six columns, containing the greatest possible variety of Valuable and Entertaining, Original and Selected Matter, all combining to render THE GOLDEN ERA a Literary and Family Journal of surpassing interest and attraction; a Welcome Guest in Cottage and Cabin; the favorite at the fireside in City and Country, the most useful, agreeable altogether desirable publication for California readers and their kindred and friends in the Atlantic States, Europe, and elsewhere. Every Household in the Mountains and Valleys, the Cities, Towns, and Mining Camps of California and throughout the Pacific States and Territories, should receive and welcome THE GOLDEN ERA as a regular weekly visitor.

Serial Romances in The Golden Era.

The most popular Novels of the present day published as Serials, from week to week, in the GOLDEN ERA, from advance sheets, simultaneously with their appearance in the English and Atlantic Periodicals.

Among the contributors to the GOLDEN ERA are all the prominent writers of Literary Repute in California and on the Pacific Coast, also correspondents and contributors of distinguished ability in the Atlantic States and Europe, comprising an array of Talent and Genius unapproached by any Literary Journal in California, the Atlantic States, or Europe.

IN THE GOLDEN ERA,

"THE FAIR LILIAS;"

Or, "LIFE IN DEATH,"

A New Story, by PIERCE EGAN, Author of "The Poor Girl," "The Flower of the Flock," "Lady Maud," "The Snake in the Grass," "Such is Life," Etc.

PIERCE EGAN is undoubtedly the most fascinating and attractive Novelist of the age. His stories are eagerly sought for, read and admired by hundreds of thousands in England and America. "THE FAIR LILIAS; or, Life in Death," surpasses, in exciting interest and thrilling situations, all of the productions of the celebrated author, and is Pierce Egan's masterpiece.

THE GREAT SERIAL,

"OUR MUTUAL FRIEND,".....By Charles Dickens.

"THOUGHTS AND THINGS"

APPEAR WEEKLY IN THE GOLDEN ERA.

Read "Thoughts and Things" in the GOLDEN ERA.

SUBSCRIBE FOR THE GOLDEN ERA.

One Year.....$4 00 Six Months.....$2 00

To Mail Subscribers.

THE GOLDEN ERA for One Year.....$4 00
THE GOLDEN ERA for Six Months.....$2 00
THE GOLDEN ERA for Three Months.....$1 00

Sent from the Office to any Address in California and Oregon—Nevada, Washington, Idaho, Utah and Colorado Territories—the Atlantic States, Europe, and all parts of the World.

Take care to write distinctly the name of the person, the name of the city, town or locality where the post office is situated, and the name of the County and State, in order that the paper may be fully and accurately directed to every address.

AGENTS in every part of the State receive subscriptions for the GOLDEN ERA.

POSTMASTERS in California, Oregon, and neighboring Territories obtaining subscriptions for the GOLDEN ERA and forwarding the same, with name and address of the subscriber, will be allowed a very liberal commission therefor.

Liberal Terms to Clubs.

Three copies, one year.....$10 00
Five copies, one year.....$15 00
Ten copies, one year.....$25 00

Now is the Time to Subscribe.

TO ADVERTISERS.

Best Advertising Medium.—The Golden Era is the oldest Weekly Journal in California, and indisputably enjoys by far the largest circulation in the city of San Francisco and in the interior of the State.

THE GOLDEN ERA

Is universally read in every city, town, village and mining and agricultural precinct in California, and offers unusual and unequalled advantages to those who desire to bring their business prominently before the community. Only a limited space is devoted to advertising. All advertising pages are also largely occupied with fresh and interesting reading matter, and no advertisement can escape attention. The charges for advertising are not so large, proportioned to the benefits derived, as those of other papers. Liberal terms will be made with those who advertise for three or six months, or by the year.

BROOKS & LAWRENCE,

GOLDEN ERA BUILDING,

No. 548 Clay street, near Montgomery, San Francisco

HELMBOLD'S

FLUID EXTRACT BUCHU

For Non-Retention or Incontinence of Urine, Inflammation or Ulceration of the Bladder or Kidneys, Diseases of the Prostrate Gland, Gravel, Brick Dust Deposits, Dropsical Swellings, Organic Weakness, Debility, Female Complaints, Etc.

H

HELMBOLD'S

FLUID EXTRACT BUCHU

—AND—

Improved Rose Wash

Will radically exterminate from the system Diseases arising from Habits of Dissipation, *at little expense, little or no change of diet, no inconvenience or exposure*; completely superseding those *unpleasant and dangerous remedies, Copaiba and Mercury*, in curing these diseases.

E

USE HEMBOLD'S

FLUID EXTRACT BUCHU

In all Diseases of the Urinary Organs, whether existing in MALE OR FEMALE, *from whatever cause originating, and no matter of how long standing*. It is pleasant in its taste and odor IMMEDIATE in action, and more strengthening than any of the preparations of *Bark or Iron*.

These suffering from *Broken Down or Delicate Constitutions, procure the Remedy at once.*

The reader must be aware that however slight may be the attack of the above diseases, it is certain to affect his *Bodily Health, Mental Powers and Happiness*. If no treatment is submitted to, Consumption or Insanity may ensue.

All the above diseases require the aid of a diuretic.

Hembold's Extract Buchu

IS THE GREAT DIURETIC.

L

HELMBOLD'S

HIGHLY CONCENTRATED

Compound Fluid Extract Sarsaparilla,

For purifying the Blood, removing all diseases arising from excess and imprudence in life, chronic constitutional diseases arising from an impure state of the blood, and the only reliable and effectual known remedy for the cure of Scrofula, Scald Head, Salt Rheum, Pains and Swelling of the Bones, Ulcerations of the Throat and Legs, Blotches, Pimples on the Face, Tetter, Erysipelas, and all scaly eruptions of the skin, and beautifying the COMPLEXION.

M

NOT A FEW

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SAN FRANCISCO, SATURDAY, SEPTEMBER 23, 1865.

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NOTES OF A LECTURE ON GEOLOGY.

GIVEN AT THE LINCOLN SCHOOL HOUSE, SAN FRANCISCO, BY DR. C. T. JACKSON.

The closing exercises of the session at the Lincoln School, took place on Friday of last week; and to add interest to the occasion, Dr. C. T. Jackson, who was about to leave for the East, was invited to favor the pupils and such other friends of education as might be present, with a brief lecture on geology. After the conclusion of the usual exercises by the pupils, the Doctor was introduced to the large audience present, by Mr. Pelton, Superintendent of the city schools.

He commenced his remarks by a brief reference to the probable primeval state of matter—of La Place's nebular theory—of the probability that all the planets comprising our system were probably at one time a vast ring of plastic matter, which has since been segregated into planets. He showed that the earth must once have been a molten mass, and that the rocks and soil which we now behold, and which forms a crust over the still molten interior, are but the results of oxydization. The ignition or molten condition of matter was in all probability the result of the first combination or commingling of elements, an occurrence which could not fail of producing a large amount of heat.

He next showed that the earth had in its whole mass a specific gravity of 5. or is five times as heavy as its bulk of water, while the rocks of its crust has a mean specific gravity of only 2.5, or two and a half times as heavy as their bulk of water. From this he inferred that the interior portions of the globe must be of a metallic nature. He next stated that by careful experiments it was found that the temperature of the earth, from the plane of invariable temperature, or from that point where the sun's rays no longer beat the earth rises, as we descend into the interior, in the ratio of one degree for every forty, fifty or sixty feet, varying according to the nature of the rocks in different countries; and if the heat increases 1° in forty feet, at two miles depth, water will boil, and at sixty miles depth, all rocks will melt. From this he finds that the interior of the earth is still incandescent, and would remain so for an immense and almost immeasurable length of time, since the imperfect conduction of the crust prevents the loss of more than a small fraction of a degree of heat per century, as proved by Baron Fourrier. Whether the earth would ultimately cool down so as to become uninhabitable, is an interesting question of science.

He said that interesting experiments on the absorption of water by rocks had been made in France, and that it was stated that since the heat of the interior of the globe kept the water within two miles of its surface, if the whole globe should be cooled down to the freezing point of water, all the oceans, lakes, and rivers, would at once be absorbed by the rocks.

Experiments proved that five times as much water as actually exists on the earth would be taken up by the pores of the rocks, when cooled to 32° Fahrenheit. Therefore the next thing would be the absorption of the entire atmosphere also, and the world would become, like the moon, without air or water, and uninhabitable. It was suggested that this might possibly be the future of this world, and that the moon now looks down on the world as its future barren sister. We do not know, however, but there may be some means in store for the restoration of the escaping heat of the world; but if so, it is not apparent as yet to the eye of science.

We know the temperature of interplanetary space is at least as low as 100° below zero, or at the greatest cold of the polar regions of the earth. Not long since, a great meteoric stone exploded over Dhurmsala, in India, and scattered masses of its substance over the whole of that military department. These were seen to fall red hot on their surface, and a fused enamel or crust gave evidence of the great superficial heat they acquired in falling through the atmosphere; but these stones, picked up immediately after they fell, were, when held for a few moments, so cold as to benumb the hands. This internal cold was that which they brought from interplanetary space, and the thin exterior of so imperfect a conductor was alone melted. It was like the Chinese luxury of ice fried in butter. Those who took the pieces of this meteorite in their hands felt the cold of regions far beyond our atmosphere. The evidence sent by the Governor General of India, establishes the fact of this great cold beyond doubt.

Dr. Jackson next explained, by means of a diagram, the actual positions of the various strata of the globe to the depth of thirteen miles, as ascertained by the geologists of Europe and America. He gave all the different classification which have from time to time been adopted, each from a different stand point; some theoretical as to the origin of the rocks, others with a view to their zoological and botanical relations. He also showed which formations exist west of the Rocky Mountains, and particularly in California and Nevada. He showed the great importance of examining the junctions of rocks of aqueous and of igneous origin, as at these points ores of the metals most abounded.

He spoke of the Jurassic age of the slate rocks, which carry the auriferous quartz veins of California, as exceptional and very remarkable; yet their age was conclusively proved by the occurrence of ammonites and belemnites in Mariposa county. He also showed that granitoid rocks have been thrown up in all geological ages; that they come up as high as the tertiary strata. These recent granites are peculiar, and are not charged with quartz in aggregated crystals, although they contain abundant veins of that mineral often charged with silver ores, as in the Nevada silver districts in and near Austin. Those granites remind one of trachyte—a volcanic or rather plutonic rock. The organic secretion of secondary limestones was also spoken of, and the corals and fossil shells noted. Ancient coral reefs of the Devonian age recalled the sub-oceanic vision of Ladurlad, as given by Southey in his "Coral Grove." The lines were eloquently recited.

Intrusive or plutonic rocks were mentioned, and an account of Pluto's irruption upon Neptune's great dinner to the rocks, was described, by quoting at length, a humorous and highly imaginative poem, written by an Irish bard, and entitled the "Banquet of Neptune," in which the sea-god invited all the different rocks and strata to a dinner served with dishes most congenial to the taste of each. We have given above but a mere outline of the lecture. The most interesting portion of his remarks, to many, was that just previous to the close, in which he referred to the coal formations, and some recent experiments with reference to the origin of coal and other mineral crystalization, which we give at length, in nearly the words of the speaker.

COAL FORMATIONS—COAL IN CALIFORNIA.

1st. The true coal formation lies between the Devonian and new red sandstone series, and is marked by well ascertained fossil plants of tropical genera, such as tree ferns, sigellariæ, with stigmariæ, lepodendræ, and palm-like leaves and stems, and also by the presence of ganoid fishes, paleoniscus, etc.

2d. Bituminous coal of the new red sandstone, and in some localities anthracite coal, are produced by the action of igneous rocks. These coal formations, existing most extensively in North Carolina and Virginia, are marked by the presence of an abundance of zamios, cycas, and other peculiar plants of that formation. Fossil fishes, catoplerus, and other peculiar species of the paleoniscus, are also found. This coal is excellent for making gas and for forge uses, as it cakes and makes a good hollow fire.

3d. Coal of the cretaceous series, or chalk formation. This coal is found at Mt. Diablo, and quite extensively in both California and Nevada. It is a true brown coal, burns with flame and much smoke. The beds at Mt. Diablo are from three to four and a half feet thick, and, so far as known, five in number. The plants of this coal formation have not yet been sufficiently studied; but they are mostly of the exogenous class, a tree that grows by deposition of annual rings of sap-wood next to the bark.

4th. Coal of the tertiary series. This coal abounds in Cheriqui, on the Isthmus of Darien, and is there in the Eocene tertiary, with an abundance of fossil shells of well known forms. The aggregate thickness of these beds of coal is twenty-five feet. It is highly bituminous, and suitable for making illuminating gas of great purity. It is also excellent for steam fuel.

Tertiary coal, analogous to anthracite, is also found in the tertiary rocks of Bellingham Bay, and in various parts of Oregon. It is accompanied by the tertiary shells of the Eocene age. In California there are also some thin beds of coal in the Miocene tertiary; but none of sufficient thickness to be profitably wrought have yet been discovered.

Owing to the non-existence of the usual coal formation here, there was formerly little belief in the existence of any workable beds of coal in California, and it was supposed that the first samples produced were merely local deposits of lignite. Now, however, we know that there are in California regular beds, and probably regular basins of true brown coal in the cretaceous rocks of the Coast Range.

Petroleum also occurs in the tertiary formation, and between it and the subjacent cretaceous rocks.

INTERESTING EXPERIMENTS.

The researches of M. Daubree, of the Garden of Plants of Paris, in France, have not only explained the origin of many crystalized minerals, and most of our metamorphic rocks, but also have chemically proved that the same vegetable matters which, under certain conditions, form bituminous coals, will, under others, which certainly did exist at the epoch of the coal formation, produce well characterized anthracite vegetable matters, decomposing at a moderately warm temperature under water, lose part of their hydrogen and oxygen, in the form of water and light carburetted hydrogen gas, and by this change become, in the course of time and under pressure, bituminous coal. If, however, this vegetable matter is exposed to super-heated water, say at 500° Fah., or at a heat nearly double that of the boiling temperature, it will melt and become perfect anthracite, hard enough to scratch glass. Daubree made his experiments by placing the substances to be operated upon in strong iron tubes, filled entirely with water and closely scaled up with screws and copper washers. These tubes were placed in the brick work of a gas furnace, where the heat was steadily kept at 400° Fah. After a few weeks the tubes were opened, and the nature of the changes which had taken place in the vegetable matters were noted. *Pine wood had melted into black shining globular masses of anthracite coal!*

By the same method of operating, M. Daubree has been able to make crystals of most of our zeolites, and even to convert glassy obsidian into crystalized feldspar. He has thus shown how most of our metamorphic rocks and crystalized minerals could be formed by super-heated water, at a moderate depth from the surface, or beneath the sea.

Some rocks may have been formed by pressure, or by dry heat; but by far the greater number of them were evidently humid at the time they were rendered crystaline; for their crystals are often hydrous—or contain water. This is often found in transparent crystals of quartz. However, the absence of water in crystals would not prove that they were not formed in super-heated water; for M. Daubree has made anhydrous minerals—the feldspar above named being one of that series. There was never, remarked the doctor, a more gigantic step made in chemical geology, than that here noted, and quite recently accomplished by the distinguished French mineralogist and chemist, whose experiments are mentioned above. Specimens of his work were forwarded at the time the experiments were made to Dr. Jackson.

THE MECHANICS' INSTITUTE AWARD OF PREMIUMS.—We give, in the present number a full list (revised by the Executive Committee) of awards to exhibitors at the late Fair of the Mechanics' Institute. This is the only full and complete publication that has been made; all previous publications having abounded in errors, or been incomplete in detail.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

Esmeralda and its Mines.

Editors Press :—Notwithstanding the present depressed condition of the mining interests abont this place, the future of Aurora was never more hopeful than to-day. The mistakes of the past are now more fully understood, and the experience gained will be turned to the most profitable account for the future. Mining in and about Aurora will hereafter be conducted on a scale of liberality and with a degree of intelligence which cannot fail to produce most satisfactory results, and which will soon place the mines of this region in the front rank for both productiveness and permanency. I propose, in this letter, to give your readers a brief account of the present condition of some of the most prominent ones, and in so doing will commence with the

REAL DEL MONTE.

This mine having changed very materially in both the quantity and quality of its ores, it was also found necessary to change the management as well. The entire control of the business of the company is now in the hands of Mr. L. B. Hopkins, who, by a thorough system of economy has not only managed to keep the expenses of the mine within its income, but has realized to the company, from May 2d, 1864, to April, 1865, some $60,000 over expenses. The entire property of the Del Monte Company, mill, machinery, etc., is in most excellent condition. Their mill is beyond doubt the finest on this coast, of its capacity. Their mine, though rather narrow in the vein at present, is turning out enough of ore to run their mill about half time; and as to the probability of their meeting ores as extensive and rich as they have formerly done when they get to water line—there is everything in favor of supposing that such will be the case. This fact is now being thoroughly tested by the sinking of perpendicular shafts to a depth of five to six hundred feet. A deep shaft is also being sunk by the Wide West Company, under the superintendence of Mr. Pope. This being the most advanced will be the first to demonstrate whether or not any improvement in the mines of Esmeralda may be looked for beyond the depths heretofore reached. I am satisfied, after a careful examination of all their surroundings, that the mines of this district will again astonish the world—as they once before have done—by the richness of their mineral veins.

How different would be the condition at the present time of these heretofore magnificent mines, had the managers only used the simple precaution of keeping their mine prospected in advance of their drifts, which should have been done by keeping their main shaft or incline, some one or two hundred feet below their working levels. Instead of doing so, they ran all over the veins for the richest ores, carrying their excavations on without the least regard to system or mining engineering, leaving the mine in such condition as to require a large outlay and much risk in putting it in working order or safe condition, which is now being done.

THE MILLS OF ESMERALDA DISTRICT.

I was much surprised at finding so many here, there being no less than twelve—all depending on the ledges of Last Chance Hill, for a supply of ores—but unfortunately nearly every one of them are idle at present, pending the further development of the place.

THE OUTSIDE DISTRICTS

Are numerous, and the proof of their richness, both in gold and silver—the latter abounding most—is not wanting. Foremost amongst these is the Montgomery district. The richness of the ores from this district are too well known to need comment. The leads, it is true, are small, but numerous and valuable. There are two four-stamp mills now being put up there, and two more in contemplation. The distance from here is fifty-five miles, in a southeast direction.

THE BLIND SPRINGS DISTRICT

Is another very rich mining section, fifty miles east of here. The ledges of this place are very large, being from four to twelve feet in thickness. Some of the leading lodes of Blind Springs have been sold to Eastern capitalists, whose attention has been drawn to these mines by that very enterprising gentleman, Mr. Reese, of the firm of Krouse & Reese, assayers of Aurora. These gentlemen are largely interested in this district, as also in almost every well developed project in this part of the country. Being possessed of means, enterprise, and skill, they are foremost in demonstrating the mineral wealth of the country. Under the management of Mr. Reese, smelting works are now being built by this New York Company, as well as a good mill for the treatment of such of the ores as may be adapted to amalgamation. The richer ores of the district—like all rich ores—being better treated by smelting.

COLUMBUS DISTRICT

Lies contiguous to Blind Springs and Montgomery. The ores of this district are so similar to those of the latter, that a description of the one gives the character of the other. Here, too, a mill is now on the way for the reduction of the ores. The ores of these districts, I would here remark, are very different from all others surrounding them—that is, in their combinations with other metals—being what is generally known by the name of silver copper glance, slightly combined with antimony and considerably so with lead and sulphur. These being the only districts, with one exception, on which I feel competent to speak at present, I will now have a word to say of the

BODIE DISTRICT,

Which, though last is not the least of all those surrounding Aurora; being in fact the best mining district in this section of the country, and I may add, in any other section of mining country yet known. The mines of the Bodie district are situated on what is called Bodie Bluff and High Peak Hills; distance from Aurora eleven miles, at an altitude of nine thousand feet above the sea. These hills are a portion of the series of foot-hills of the Sierra Nevada on their eastern side, at a distance of some twenty miles. Bodie is in Mono County, Cal., but quite close to the dividing line of that State from the State of Nevada. From the top of Bodie Bluff and seemingly at your feet, though distant twelve miles, lies Lake Mono—or as it is more appropriately called, the "Dead Sea of the West"—stretching itself for some thirty miles north and south, along the foot of the Sierras, of which latter you can enjoy a never ending view from this elevation. The "White Mountains," too, stand out in bold relief upon the sterile plain before you, which stretches from Walker Lake, at its northern extremity, to the Owen's River Valley south, lifting their chalky crest to bound your view as you look eastward from here.

The mines of Bodie Bluff were discovered by a Frenchman named "Bodie," as early as 1859—by his first discovering placer diggings, which are here very rich even to this day, but cannot be worked to advantage for want of sufficient water. They have been worked for short terms in the spring, when the melting snows would afford sufficient water, and pay from fifteen to twenty-five dollars per day to the hand. Though the quartz ledges were discovered in '59, yet little or no attention was paid to their development until '61, and even then received no further attention beyond location and sufficient working to prove their value and hold them by law. This neglect of such very valuable mines, was owing to the extraordinary excitement then prevailing about those of Esmeralda district. The principal ledges of the district in 1861 and 1862, were taken up by and organized into the following companies; namely: Bodie Bluff Consolidation, Bodie No. 2, Isabella Company, Tioga Company, and Rio Vista Company. During the summer of 1864, a consolidation of the entire interests of these companies took place, forming the present "Empire Gold and Silver Mining Company," with their head office at New York city, where resides a majority of the trustees. The working capital of the company is one million dollars, and with this they have gone to work in the most thorough manner to open out their mines, by running tunnels, sinking shafts, etc., etc. They have been thus at work for the past ten months, and have now three separate tunnels run in, transverse of several of their ledges, to a distance of from 252 to 375 feet, being at a depth from the upper surface of 255 to 300 feet. As the object of the company was not to take out ore so much as to put the mines in a good condition for future operations, they have succeeded so far, that now they can put 200 men immediately to work extracting ore, when, from the fissile nature of the quartz, and the regularity of the thickness of the veins, which are generally wide enough from casing to casing to admit of being worked without breaking through the wall rock, five hundred tons per day might be taken from these ledges.

The business of the Empire Company is under the management of Dr. J. L. Howard, of the firm of Howard & Sanches, bankers at Aurora—as general manager and financial agent. To his credit I must say that it would be well for the country if many of our mining superintendents would come and take a lesson from the system of mining management inaugurated here. Of the value of the ores of these ledges I need not say much, as their character in that particular has been well proven and is generally known.

There has been several hundred tons of the ore from these ledges worked at the Aurora mills, yielding by a rather imperfect method of amalgamation, from forty to fifty dollars per ton; though the assays were as high as one hundred and over.

This company have just completed their first mill. It is situated at the foot of Bodie Bluff and right under the mouth of the tunnels. The distance in perpendicular hight from the mill to the lodes at their outcrop on the Bluff, is 800 feet, affording the finest facility possible for conveying the ore from the mines to the mill. This mill has been planned by Mr. B. O. Cutter, of San Francisco, and built under his immediate supervision. It certainly does credit to him as an architect in this particular line of mill building. Mr. Cutter has planned and built many of the leading mills of the country. In this section of country he built the Fogus mill, the Durand mill, and also the Antelope mill; the latter is not to be excelled by anything I have yet seen. The Empire mill is planned after the Antelope; like it, is built of brick, in the most substantial manner, and so arranged in placing the machinery, as to afford the utmost convenience in its use. This mill has sixteen stamps, eight of Wheeler's pans, three settlers, with shaking tables, and a continuation of riffled sluices—the whole so well adapted to the saving of everything contained in the ore, that I cannot see the least possibility of a failure to work this ore up to ninety per cent. of its assay. The company have a most splendid supply of water taken from adjacent springs. The motive power is a thirty-five horse power engine, a splendid tubular boiler, with all the necessary appendages in the very best order and style; the entire structure is covered with a tin roof.

The first movement of a quartz mill in the Bodie district was made by this one, on the 6th instant, by setting her stamps to work, and on the 13th instant by moving her entire machinery, which now are steadily running, with a fair prospect of continuing to do so for a long time to come.

In my next you shall hear from the result of the workings of the ore in this mill. In view of the fact of this mill not being able to crush one fourth of the ore now coming out of the mines, this company are now preparing to erect another of thirty stamps as soon as spring opens. And the impression is, with the most substantial facts to sustain it, that even then they cannot reduce more than one half of the ore which will be coming out by that time. There are other mines situated on the "Bodie and High Peak Hills," which certainly are equally as noteworthy as any one of the Empire Co.'s lodes. There is the "San Antonio," the "Home Stake," and several others not yet much developed. But the two named are most thoroughly prospected and their value fully established—by having several tons of the ore worked in mills at Aurora. The "Home Stake Company" are now engaged in building a twelve-stamp mill close to their mine, which they expect to have running in about five weeks' time. This mill, and the mine connected, are under the management of Dr. J. L. Howard, who is largely interested in it, and like the business of the Empire Company, is being carried on with the closest regard to a proper application of the means placed at his disposal for the construction of the mill and working of the mine. This company have now at their mine several hundred tons of ore that will certainly work as high, by mill process, as $125 per ton. Mr. B. O. Cutter is also the architect of this mill, when, from what I have seen of the Empire mill, I am satisfied that this one will be but another monument to his fame as a mill architect. That Bodie district is now taking the lead, none can deny, while all admit that to the enterprise and energy of Mr. Howard in bringing about these very desirable improvements, as well as in the better development of the mines of these companies, is due the credit of the great benefit to be derived by the country generally, but by Aurora in particular, from the vast outlay going on, as well as from the large amount of bullion which these mines will turn out from this time forward. Before this reaches you the first shipment of bullion will be made from here. J. R. M.

Aurora, September, 1865.

Precious Stones in North Carolina.—It is reported that precious stones of considerable value have been found in the southwestern part of North Carolina. A lady owning property in that region claims to have in her possession two of the finest opals ever discovered, which were found in Cherokee County.

A Safe Company to Travel With.—It is said that the Cunard steamship company, which is now twenty-five years old, has never lost a life or letter during the many trips its steamers have made across the Atlantic.

THE KERN RIVER MINES.

What is generally known as the Kern River mines, embraces quite a large extent of country in Tulare county, to the southeast of the town of Visalia. It is divided into a number of districts, each of which, we believe, is alluded to separately in the letter of our correspondent which is given below. This region is beginning to attract a large amount of attention, and a strong current of emigration is now setting in that direction. It is estimated that there are not less than 1,000 miners now at work around the hills and hollows about the head of Clear Creek. There can scarcely be any doubt about the richness of these mines. They have been carefully and repeatedly examined by our best experts, who are unanimous in their opinion of their value. Quite a number of capitalists, who have long been engaged in quartz mining in other parts of this State and in Nevada, have recently invested in these mines, and are now engaged in putting up machinery. Several mills have already gone into operation with the most flattering results. The former prejudice against these mines is now fully broken down, and they are fast establishing a reputation which will soon place them among the most valuable of the gold mines of California. They yield by actual working from $30 to $50 and $75 per ton. The ledges are well developed and heavy, and the rock is very easily worked. We give below a very full and interesting letter descriptive of what is now going on in these mines. We hope to hear from our correspondent often :

THE WHITE RIVER DISTRICT

Is situated on White River, fifty-five miles from Visalia. The mines in this district have been worked successfully for several years; but new discoveries are constantly being made, among which we may mention the McCullough, on Keys Lode, and the Josephine Lode, belonging to C. F. Woods & Co., who have an 8-stamp mill. The rock from this claim pays from $45 to $75 per ton. The richest lode, perhaps, in this district, is the Sarah Campbell, owned by a Philadelphia company. This company have a patent crusher, and intend putting up a large mill. Their rock is said to pay $125 per ton. Many other parties are sinking upon lodes which they have discovered, most of which are very promising, so far as opened.

GREENHORN DISTRICT

Is situated on the summit of the mountain known by the same name. The altitude of this district is about 7,000 feet. It contains an abundance of timber, pine, oak, fir, and cedar, and plenty of water. The principal lodes that are being worked in this district, are the Sanders, owned by J. Lewis & Co., the rock from which is crushed in arastras, and pays about $60 on an average; another lode, the Rough and Ready, is worked by R. Hudnut, and pays from $35 to $70 per ton. It is worked by a water-mill, with five stamps, and subsequently run through arastras. Other lodes are being sunk upon with good prospects.

KEYSVILLE DISTRICT

Is situated on Kern River, east side of Greenhorn mountain, and is also a timbered country. The principal lodes in this district are the Old Mammoth lode, which has been worked for several years, paying an average of $36.50 per ton. It is worked by a water-mill, with eight stamps. The famous, though recently discovered Knickerbocker lode, owned by McCullough & Co., is also in this district; the owners are sinking down upon it, and it is proving remarkably rich. Next comes Balfish & Co., with mill and lodes. This company have sold their entire interest to Judge Walsh & Co., for a large amount of money, who intend putting up new machinery immediately. There are other lodes of very fine prospects in progress of development.

CAVE OR KERNVILLE DISTRICT,

Is also on Kern River, ten miles above Keysville, where the Big Blue and Summer lodes are situated. Most of the work going on in this district, is being done by A. Staples & Co. Mr. King, and the companies owning Bull Run, Summer and Frank lodes, are working seventy men and running three mills, with a capacity of twenty-two stamps, the average pay of rock being $38 per ton. Wheeler & Co. are also running arastras by water-power, on the Stone lode, which pays from $35 to $40 per ton. The village of Kernville is situated in this district, and contains two hotels and two stores, besides shops of different descriptions. Some fine gardens and farms are also to be found in this vicinity.

CLEAR CREEK MINES.

Havilla City is situated on Copperas Run, with plenty of timber and water. The town

consists of five hotels, eleven stores, six saloons and gambling houses, and four livery and sale stables. Stock-brokers, surveyors, lawyers, gamblers, dentists, prospectors, teamsters, French, Italians, and all kinds and characters of men, throng the streets from morning until night, and through the night until morning again, buying, selling, gambling and drinking—a perfect *fac simile* of Virginia City in 1861 and 1862. The mines now being worked are the Delphi, sixty-eight feet deep, eighteen inches wide, and pays $125 per ton. The Countess of Tyron has been sunk to the depth of forty feet, and pays $90 per ton. The owners of this mine, McRidney & Co., have a small mill of nine stamps (steam), with a capacity for sixteen more, which they intend putting in operation immediately. Marsh & Co., are running arastras on the following named lodes: Jupiter and Dundee, averaging $90 per ton; this company are putting up a mill of ten stamps; J. W. Freeman & Co., a custom steam mill, with four stamps, which is running finely; J. H. Thomas' mill, with four stamps, under the supervision of Mr. Stevens, is working well, and they are making the famous Rochford lode pay $100 per ton; the Uncle Abe, also, pays rich; McDonald & Co.'s mill, five stamps, is working well, and the lode, which is six feet in width, pays $80 per ton. The Treasure lode pays $160. This is the richest lode in the district yet discovered, it having paid as high as $336 per ton. This company have several other lodes that pay $25 to $60 per ton. The following lodes are being sunk upon, and rock is being taken out and waiting for mills to be completed to reduce it: Old Dominion, Sovereign, Stewart, and Exchequer, by A. Reed & Co. These lodes prove to be very rich, the proprietors having gone down to a depth of one hundred feet on some of them. Burditt & Co. are working the Antelope, Mountain, and Democrat, running tunnels and levels, and taking out good pay rock. Boyle & Calvin are sinking and taking out rock from the celebrated Bamboo lode, which is very rich. Miners are sinking and prospecting on a great number of lodes, some of which prospect well. There are recorded in this district nearly eight hundred lodes. The rock is generally very much decomposed, free from all metals except gold, and works very easy. The following companies are putting up mills: Banning & Co., capacity, twenty stamps; N. Stevens & Co., ten stamps; Burdett & Co., ten stamps; and Radcliffe & Co., with a patent crusher, supposed to be able to reduce fifteen tons per day; Marsh & Co. U. S. Marshal Rand, and Inspector Smith, have purchased large interests, and I am informed that they are going to put up heavy machinery. A French company have bought out Dr. Labarde & Co., and intend to put up a large mill; the purchase was made for the sum of $150,000. This district suffers a great deal from the want of mills. There is no question about the richness of the mines. The price of crushing is now $12 per ton. I will give more particulars in my next, when the mines are further developed.

LONG TOM DISTRICT,

Is situated near Posey Creek, Tulare county, seventy-five miles from Visalia. There is but one lode here now being worked—the Long Tom, belonging to Roberts & Co. They have a gang of hands sinking shafts, running levels, etc. This lode pays remarkably well, and is said to average $80 per ton. It is nearly four feet in width at the depth of sixty feet. There are other lodes in the neighborhood, but no other upon which work is now being done.

H. H.

PUBLIC DEBT OF THE UNITED STATES.—Secretary McCulloch has issued a statement of the public debt, as appears from the books, Treasurer's returns, and requisitions in the Department on the 31st of July, 1865. We recapitulate:

	Am't outstanding.	Interest.
Debt bearing interest in coin	$1,108,062,641 80	$61,521,837 50
Debt bearing interest in lawful money	1,289,156,515 05	74,740,630 78
Debt on which interest has ceased	1,527,120 00	
Debt bearing no interest,	357,900,963 92	
Totals	$2,757,253,275 86	$139,252,468 28

SOUTHERN PETROLEUM.—Three hundred gallons of crude oil have reached Los Angeles from the wells of the San Fernando District. It contains, by analysis, fifty-seven per cent. of illuminating, and thirty-three of lubricating property.

SOME of the river steamboats employed upon the Rhone are, according to a drawing exhibited in Paris, 250 feet long and 16 feet wide, the length being 15 2-3 times the width. The engines are 500 horse power.

THEY make big dividends in Taunton. The oil cloth company has declared an annual dividend of 50 per cent., with 50 per cent. surplus reserved; the American screw company has made monthly 10 per cent. dividends through out the year.

Delayed Letter from Summit City.*

EDITORS MINING AND SCIENTIFIC PRESS:—I arrived at this newly discovered El Dorado some two days since, and as I have not yet visited the mines here, I will speak more particularly of the place—its rapid growth and general appearance. Less than four weeks ago, two small shanties only were to be seen; now some 150 houses have been built, and every day new improvements are being made. The open lot of yesterday receives the skeleton of a one or two-story building, to be by to-morrow clothed and inhabited by its excited and wealthy (?) owner. Montgomery street only, during the wild-cat mania of '63, would be any parallel to the excitement witnessed here at this time. The day on which I arrived (Sunday), some 700 or 1,000 persons were witnessing the feats of a young disciple of Blondin, ascending a wire from the ground to the center of a large pine tree, while other portions of the city seemed not to be aware that a show was going on in town, so numerous are the scattered groups around.

This is the most beautifully romantic location for a town I have ever seen. Situated on the back-bone of the Sierra, at an altitude of over 8,000 feet above the level of the sea, and 2,000 feet higher than Virginia City, it may well claim its chosen name, "Summit City," Excelsior District. On the east side of the town is "Meadow Lake," one and a half miles long by some 600 yards wide, artificially formed by building an immense rock dam across the lower portion of the valley, some 600 feet long by 40 feet high. The dam was constructed by the well known Capt. Kidd, for mining purposes, and certainly seems to last much longer than his steamboats. The captain most assuredly deserves the gratitude of this virgin city for the beauty and benefit thus accidentally conferred upon her.

From the lake westward, the land rises gradually and crosses the summit by a natural, easy grade, for a distance of about one and a half miles, when you strike rocky mounds, hillocks, and ravines, over which the miners are scattered in every direction, prospecting for miles around. The town has already several hotels, among which I would mention the "Lake House," "Cosmopolitan," "Andrews' House," with innumerable restaurants, groceries, fruit stands, express offices, etc., etc., and indeed nearly everything you find in an old and well regulated city. The Israelites have also pitched their tents thickly around, and "*sheep clothing*" is abundant. It is astonishing, for the short space of time since the place was started, to witness the style of the hotels. I would particularly mention the "Lake House," at which I am stopping, kept by Mr. and Mrs. Lake, where you will find the table abundantly supplied with every substantial and luxury of the season, and the amiable madam, *in propria persona*, directing and catering for her numerous guests.

There are two principal roads leading hither, but the one mostly traveled at present is from Henness Pass, by which heavy wagons and loads weighing 6,000 pounds are brought in—distance about eight miles; the other, which leads from the Dutch Flat road, can only be passed by pack trains and pedestrians. The distance, as now traveled, is about ten miles. The Californians and Nevadans generally meet at the "Webber House," on the Henness Pass route, on their way hither, and mount stage, horse, or foot it—time, from two to four hours. The route, though tolerably rough, is yet very picturesque, with Truckee Lake to semi-circumvent, and the beautiful green meadows surrounding its borders to pass over, the trip is a very pleasant one. There is, I learn, a company organized under the superintendency of Capt. Hardy, of Virginia City, for the purpose of grading a toll road from the Webber House. The Dutch Flat route is also surveyed by another company and the work commenced. These roads are bound to be constructed at an early day, and they are certain to pay well. To-morrow I intend to visit the celebrated "Enterprise Ledge, located about six miles from here. I have seen enough, both in Virginia City and since I arrived here, to satisfy me of the almost fabulous richness of this lead; also, of Wisconsin, and many others, the ores of which I have seen, but will be better prepared to speak of them after a personal examination. L.

Summit City, August, 1865.

*The publication of this letter has been unavoidably delayed some three weeks.

THE word loyal is from the French *loi*, which signifies the *law*. Hence to be "loyal" is simply to abide by the law.

CHEMISTRY OF THE SUNBEAM.—The chemistry of the sunbeam; the dullest cannot fail to behold it every day, combining, transmitting and transforming, in its slightest processes, far beyond the skill and power of all human science combined. From the moment its laboratory opens through the gates of the dawn, until it closes with the last ray of twilight, all created things within its reach are quickened and modified by its touch. The insect and the bird, the grass-blade and the giant oak, man and beast, the air, the earth and the waters, all greet it as the subtlest and mightiest material agency of our planet.

So vast are its uplifting ministrations that the solid rocks and the very mountains are exalted in its presence. The eye of science has observed that under its vertical influence, in mid summer, the mass of granite on Bunker Hill is drawn upward beyond the power of all human appliance of mechanical force. And not only that granite column, but every expansive substance on the face of the earth, within the compass of the sunbeam, is uplifted.—Growth, form, color, fragrance; these are a part of its illimitable work throughout the domain of nature; aye, more, it seems almost as though universal life were its dependent. If it be shut out altogether, all life withers and dies; even its brief, unwonted absence droops the verdure of earth and the spirit of man.

Yet, mighty and all-prevading as it is, it can enter the pores of the finest steel, and nestle in the tiniest dew-drop. Flooding the earth with light, it stoops to nourish the smallest flower, and to gild even the mote that floats in its track. Busily working in every harvest field, it is still a seeming idler, playing hide-and-seek with shadow, and sporting on the wave, the woods and the mountains. Disdaining nothing, it glorifies all things. The lizard warms under it, even as the lark soars and sings. Prodigal of beneficence, its briefest shine is brighter than all earth's gold and gems. It is God's chemistry, developing the seeds and germs of a creation, which in its smallest part, equally with its greatest, attests the gracious omnipotence of its Creator.

EVEN THE HAIRS OF YOUR HEADS ARE NUMBERED.—To number the hairs of the head has been in all ages accounted as impossible a feat as to count the sands of the seashore. The astonishing labor has, however, been gone through by a German professor, who thus tabularxies the result of his examination of four heads of hair: Blonde (number of hairs), 140,400; brown, 109,440; black, 102 962; red, 88,740. The heads of hair were found to be nearly equal in weight, and the deficiency in the number of hairs in the black, brown and red colors was fully counterbalanced by a corresponding increase of bulk in the individual fibers. The average weight of a woman's head of hair is about fourteen ounces.

FIRES.—A correspondent who "keeps tally" of everything he reads gives the following aggregates of American casualties by fire and wreck from January 1st, 1843, to July 1st, 1865—22½ years:

Whole number of fires	5,615
Whole number of buildings consumed	291,210
Whole number of shipwrecks	1 821
Whole number of lives lost thereby	274 142
Cotton destroyed—pounds	1,579,672,000
Total losses by fire and wreck	$2,001,008,000

PETROLEUM.—The actual product of oil in Pennsylvania is set down at 3,500,000 barrels of crude oil for the year 1865, and worth, taking an average of prices, $24,000,000 at the mouth of the wells. The process of refining increases its value to over $60,000,000, or one-half as much as the wheat crop. The consumption of this newly-discovered illuminator and lubricator is increasing very rapidly, both at home and abroad. In 1862 Europe consumed 10,000,000 of gallons; in 1864 the importation had increased 300 per cent., 30,000,000 of gallons being consumed there; and in 1866 it is estimated that 90,000,000 gallons will be required. There is a brisk market for it the world over—Asia, Africa, South America, and the islands of the sea all calling for it. The best authorities on the subject consider eighteen months the natural life of an oil well. Some last longer than this, but the great majority give out before they are a year old. But experience shows that oil may be struck and good yields obtained in close proximity to exhausted wells. Some wells that refuse, under the most vigorous pumping, to yield a barrel more, are made productive by boring them deeper. The deepest wells in operation are but 500 to 600 feet. Scientific men contend that the greatest oil deposits underlie the earth's surface 1,000 to 1,200 feet. Considerable oil is produced in Canada and West Virginia, but the product is small compared with that of Pennsylvania.

WORKMEN are now engaged in removing the wood work, furniture, etc., from Ford's Theatre, preparatory to remodelling it as a fire-proof building for the reception of the archives of the late Rebel Government.

Grain Growing in California—Our Superior Crops Accounted For.

A writer in the *Cumberland Presbyter*, a valuable religious and family newspaper, published at Alamo, in this State, gives some reasons that have not been generally understood why the production of grain to the acre in California exceeds that of any other country. The writer thinks it is not owing to the superior fertility of the soil, so much as to the fact that in this State each head of grain contains more kernels than at the East. But is it not the superior strength and fertility of the soil that induces this better filling out of the meshes of the grain-head? Or is it the climate? The subject is worthy of fuller investigation, and we invite intelligent growers of the State to give us the result of their experiments and investigation. In the meantime, the subjoined communication will be read with interest:

One hundred bushels of wheat is sometimes obtained from an acre in California. I have heard of twenty acres the present season yielding 1,800 bushels, or 90 bushels to the acre. Sixty or seventy-five is not uncommon, and forty to sixty bushels are general when the soil and season are favorable to the production of grain. In most localities in the States, twenty bushels to the acre is a good crop. Twenty-five to thirty bushels is a fine crop, and forty to fifty bushels is a very extraordinary crop. The writer saw one piece of wheat in the States, and only two acres at that, which produced forty-two bushels and a half to the acre. This was the highest yield he ever saw. I know that occasionally there is a higher yield than even this, but I do not believe that there is a single county in any of the States which would yield more than twenty-five bushels as an average crop.

Those who have examined the subject closely believe that the soil is just as fertile there as in California. The superficial observer attributes these extraordinary yields to the wonderful fertility of the soil. I believe that the best soil in California is just as fertile as it is in the States and no more so; consequently we have to look to other causes for these very great yields.

The yield of straw here is no greater than in the States. But an examination of the heads will show that every mesh has in it from three to five kernels of wheat, and sometimes I have found as high as six in a single mesh. Also, every mesh on the head has wheat in it—the lowest and the very top one. Ordinarily, in the States, two or three of the lowest has no grain in it, and as many of the top ones; and generally those meshes which have wheat in them, have only two grains in them. I never saw a crop which had three grains to a mesh throughout the field. The number of meshes in the head there and here is about the same. But here all the meshes in the head have grain in them and so many more than there, and this constitutes the *great difference*.

From this it is evident that a head of wheat in California will have two to three times as many grains in it as in the States. Consequently, the produce of an acre or a field will be two to three times as much.

The important question arises, what causes this great difference? The climate chiefly.

WOOL PRODUCED AND MANUFACTURED IN CALIFORNIA.—The total wool production of California is 7,000,000 pounds per annum. The average price is about 19 cents—that of the South brings 16, of the northern counties 23. The best of our wool is manufactured at San Francisco, the rest exported. There are two woolen mills at San Francisco, consuming annually 2,400,000 pounds of raw wool, employing 450 laborers, $1,000,000 capital, and paying out $200,000 for wages. Their staple articles of manufacture are flannel, tweeds and blankets, for all of which, and much more, there is a very profitable home market. Considering that Calaveras, San Joaquin, Stanislaus, Merced, Fresno and Tuolumne counties produce annually nearly a million pounds of wool, and that the freight from this city to San Francisco would be saved thereby, why cannot we have a wool manufactory at Stockton? Experienced eastern operatives with whom we have conversed on the subject assure us that this city possesses many advantages over San Francisco as a place for this branch of manufactures.—*Stockton Independent.*

A. T. STEWART, of New York, is building a residence to cost at present estimates $1,200,000, though it is expected to run up to a higher figure. To secure a site for this structure, he is tearing down one of the finest palatial residences of Fifth Avenue.

SINCE the taking of Richmond, the capture of Lee's army, and the general collapse of the Rebellion, the mortality among the rebel prisoners in the North has very largely increased, owing to the disheartening influences which their hopeless defeat has engendered among them.

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, September 16.

1 sh Savage at 1270 per foot.
1 sh Savage at 1270 per foot, b 30.
3 shs Uncle Sam at 180 per foot.
24 shs Chollar at 450 per foot.
4 shs Chollar at 450 per foot, b 3.
2 shs Hale & Norcross at 505 per foot.
60 shs Ophir at 415 per foot.
96 shs Ophir at 420 per share.
12 shs Ophir at 423 per foot.
72 shs Ophir at 422½ per foot.
216 shs Opbir at 420 per foot, s 3.
2 shs Yellow Jacket at 1370 per foot.
4 shs Yellow Jacket at 1375 per foot.
3 shs Yellow Jacket at 1360 per foot, s 30.
1 sh Yellow Jacket at 1365 per foot, s 30.
1 sh Yellow Jacket at 1380 per foot.
2 shs Yellow Jacket at 1380 per foot, s 3.
2 shs Yellow Jacket at 1385 per foot.
8 shs Alpha, G. H., at 2275 per foot.
4shs Alpha, G H, at 2250 per foot.
20 shs Daney at 47½ per foot.
20 shs Daney at 47 per share.
40 shs Daney at 46 per foot.
4 shs Gould & Curry at 1300 per foot.
1 sh Overman at 180 per foot.
3 shs Belcher at 915 per foot.
64 shs Imperial at 255 per share.
16 shs Imperial at 253 per share.
10 shs Imperial at 252 per share, s 30.
5 shs Imperial at 256 per share.
25 shs Sierra Nevada at 21 per share.
15 shs Sierra Nevada at 10½ per share.
55 shs Sierra Nevada at 20 per share.
70 shs Burning Moscow at 21 per share.
25 shs Confidence at 125 per share.
15 shs Confidence at 124 per share.
2 shs Bullion at 135 per share.
30 shs Caledonia Tunnel at 8 per share.
10 shs Caledonia Tunnel at 7¾ per share.
1 sh Empire M & M Co. at 357½ per sh.
1 sh Empire M & M Co. at 355 per share.
1 sh Empire M & M Co. at 352½ per sharo.
3 shs Empire M & M Co. at 350 per share.
2 shs Empire M & M Co. at 350 per sb, b 3.
1 sh Empire M. & M. Co. at 345 per sharo.
2 shs Empire M. & M. Co. at 345 pr sh, b 5.
2 shs Empire M & M Co at 340 per share.
3 shs Empire Mill & Mining Co. at 342.
2 shs Empire M & M Co. at 345 per sh, b 3.
20 shs Buckeye at 4 per share.
15 shs N. American, Ex Sam, at 22½ per sh.
$ 7,000 Legal Tender Notes at 72½ per cent.
Amonnt of sales.....$150,228 00

Monday, September 18.

15 shs Overman at 175 per share, s 3.
5 shs Overman at 175 per foot.
2 shs Overman at 176 per foot.
3 shs Belcher at 925 per foot.
2 shs Savage at 1240 per foot.
1 sh Savage at 1240 per foot, r w.
4 shs Crown Point at 1110 per foot.
4 shs Crown Point at 1105 per foot, s 3.
4 shs Crown Point at 1102½ per foot.
24 shs Ophir at 4.0 per foot.
12 shs Ophir at 425 per share.
95 shs Ophir at 425 per foot, s 3.
1 sh Yellow Jacket at 1485 per foot.
1 sh Yellow Jacket at 1395 per foot.
2 shs Yellow Jacket at 1400 per foot, r w.
2 shs Yellow Jacket at 1405 per foot.
20 shs Daney at 45 per foot.
2 shs Hale & Norcross at 505 per foot.
2 shs Hale & Norcross at 510 per foot.
4 shs Chollar at 440 per foot.
4 shs Gould & Curry at 1250 per foot, s 30.
10 shs Burning Moscow at 18½ per share.
40 shs Burning Moscow at 20 per share.
20 shs Burning Moscow at 19 per share.
50 shs Burning Moscow at 19 per share.
30 shs Imperial at 255 per share.
2 sh Imperial at 254 per share.
35 shs Imperial at 253½ per share.
10 shs Imperial at 253½ per share, b 3.
10 shs Imperial at 254 per share.
20 shs Caledonia Tunnel at 7 per share.
2½ shs Nevada, J. G. at 21 per share.
17 shs Confidence at 125 per share.
1 sh Empire M & M Co. at 345 p. sh, s 3.
2 shs Empire M & M Co. at 340 per share.
3 shs Empire M & M Co. at 357½ per sh.
40 shs N. American, Ex Sam, at 22 per sh.
10 shs Bullion at 132½ per share.
10 shs Pacific Ins. Fund at 135 per share.
1 sh Cal. Steam Nav. Co. at 80 per ct.
$ 5,000 Legal Tender Notes at 72½ per cent.
$ 1,000 Legal Tender Notes at 74½ per cent.

AFTERNOON SESSION.

1 sh Savage at 1230 per foot.
2 shs Savage at 1205 per foot.
20 shs Crown Point at 1100 per foot.
24 shs Ophir at 425 per foot, s 3.
36 shs Ophir at 430 per foot.
72 shs Ophir at 430 per share, s 3.
120 shs Ophir at 415 per share, s 30.
6 shs Belcher at 930 per foot, s 3.
1 sh Yellow Jacket at 1390 per foot.
1 sh Yellow Jacket at 1390 per foot r w.
4 shs Hale & Norcross at 510 per foot, s 30.
20 shs Wide West at 7 per share.
15 shs Wide West at 7 per share, s 3.
10 shs Burning Moscow at 16 per share.
10 shs Burning Moscow at 15 per share.
4 shs Confidence at 124 per share.
3 shs Empire M. & M. Co. at 340 per share.
1 sh Empire M & M Co. at 350 per sh, b 3
4 shs Empire Mill & M. Co. at 337½, r w.
1 sh Empire M & M Co. at 336 per share.
1 sh Empire M & M Co. at 336 per sh, b 10.
2 shs Empire M & M Co. at 330 per sh, s 3.
3 shs Empire M & M Co. at 330 per share.
1 sh Empire M & M Co. at 332 per sh, s 3.
1 sh Empire M & M Co. at 332 per share.
2 shs Imperial at 253½ per share.
Amount of sales.....$ 81,138 00

Tuesday, September 19.

5 shs Overman at 175 per foot.
10 shs Yellow Jacket at 1375 per foot.
2 shs Yellow Jacket at 1375 pr ft, s 3.
2 shs Yellow Jacket at 1355 per foot.
1 sh Yellow Jacket at 1390 per foot, r w.
5 shs Yellow Jacket at 1390 per foot.
2 shs Yellow Jacket at 1385 per foot, s 30.
1 sh Yellow Jacket at 1380 per foot, s 30.
50 shs Ophir at 435 per share.
20 shs Chollar at 449 per foot, b 30.
20 shs Chollar at 405 per foot.
52 shs Chollar at 400 per foot, s 5.
10 shs Potosi at 405 per foot, s 3.
10 shs Potosi at 405 per foot, s 5.
44 shs Potosi at 405 per foot.
6 shs Belcher at 925 per foot.
12 shs Central at 250 per foot.
8 shs Crown Point at 1120 per foot.
16 shs Crown Point at 1150 per foot.
20 shs Crown Point at 1125 per foot.
10 shs Golden Rule at 12½ per share.
22 shs De Soto at 8 per share.
10 shs De Solo at 8¼ per share.
5 shs Imperial at 252½ per share.
5 shs Imperial at 250 per share, s 30.
10 shs Imperial at 250 per share, s 3.
25 shs Imperial at 250 per share.
5 shs Imperial at 250 per share, b 3.
4 shs Imperial at 248 per share.
5 shs Imperial at 244 per share, b 3.
27 shs Imperial at 245 per share.
10 shs Imperial at 245 per share, s 30.
10 shs Imperial at 244 per share.
5 shs Imperial at 244 per share, r w.
6 shs Imperial at 246 per share.
55 shs Imperial at 245 per share, s 3.
6 shs Imperial at 245½ per share.
10 shs Imperial at 245 per share, s 30.
10 shs Sierra Nevada at 20½ per share.
15 shs Sierra Nevada at 21 per share.
20 shs Sierra Nevada at 20 per share.
20 shs Wide West at 7¾ per share.
20 shs Wide West at 8 per share, b 3.
45 shs Wide West at 8 per share.
20 shs Burning Moscow at 16 per share.
10 shs Baltimore Americau at 15 per sh, s 3.
$ 4,500 Legal Tender Notes at 72½ per cent.

AFTERNOON SESSION.

24 shs Ophir at 440 per foot, r w.
36 shs Ophir at 440 per foot.
12 shs Ophir at 445 per foot.
12 shs Ophir at 450 per foot, b 10.
24 shs Ophir at 450 per foot, r w.
12 shs Ophir at 455 per foot, r w.
12 shs Ophir at 450 per foot.
60 shs Ophir at 420 per foot, s 60.
128 shs Daney at 41 per foot.
60 shs Daney at 40 per foot.
1 sh Overman at 172½ per foot.
36 shs Chollar at 410 per foot.
73 shs Chollar at 415 per foot, s 3.
12 shs Chollar at 415 per foot.
12 shs Chollar at 420 per foot.
10 shs Imperial at 244 per share.
5 shs Imperial at 240 per share.
20 shs Imperial at 240 per share, r w.
10 shs Imperial at 240 per share, b 3.
10 shs Imperial at 239 per share.
10 shs Imperial at 239 per share, b 3.
10 shs Imperial at 237 per share, r w.
10 shs Imperial at 237½ per share, b 30.
5 shs Imperial at 235 per share
15 shs Imperial at 236 per share.
10 shs Imperial at 250 per share, s30.
10 shs Imperial at 252½ per share.
20 shs Imperial at 234½ per share.
10 shs Imperial at 233 per share.
92 shs Imperial at 234 per share.
10 shs Imperial at 234 per share, r w.
10 sh Imperial at 234 per share, b 3.
10 shs Imperial at 233½ per share.
20 shs Imperial at 232 per share, s 30.
20 shs Wide West at 7¾ per share.
12 shs Burning Moscow at 6 per share.
Amount of sales.....$233,878 00

Wednesday, September 20.

20 shs Chollar at 405 per foot, s 30.
4 shs Chollar at 415 per foot, s 5.
8 shs Chollar at 417½ per foot.
12 shs Chollar at 420 per foot.
4 shs Chollar at 422½ per foot.
35 shs Chollar at 320 per foot, s 3.
25 shs Hale & Norcross at 550 per foot.
2 shs Hale & Norcross at 445 per foot.
300 shs Oaney at 40 per foot.
100 shs Daney at 39 per foot.
96 shs Ophir at 455 per foot.
20 shs Ophir at 450 per foot.
42 shs Ophir at 445 per foot,
6 shs Ophir at 444 per foot.
3 shs Belcher at 920 per foot, b 5.
3 shs Belcher at 915 per foot, r w.
3 shs Belcher at 915 per foot.
3 shs Belcher at 915 per foot, b 5.
3 shs Belcher at 910 per foot, r w.
4 shs Gould & Curry at 1200 per foot.
4 shs Crown Point at 1125 per share.
4 shs Crown Point at 1125 per foot, s 3.
4 shs Crown Point at 1130 per foot, s 3.
4 shs Crown Point at 1135 per foot, s 3.
4 shs Yellow Jacket at 1395 per foot.
4 shs Yellow Jacket at 1400 per foot, b 3.
7 shs Yellow Jacket at 1400 per foot.
3 shs Yellow Jacket at 1390 per foot, s 30.
4 shs Potosi at 410 per foot, r w.
45 shs Imperial at 220 per share.
10 shs Imperial at 230 per share.
10 shs Imperial at 235 per share.
39 shs Imperial at 239 per share.
70 shs Imperial at 240 per share.
31 shs Imperial at 237½ per share, s 3.
62 shs Imperial at 238 per share.
10 shs Imperial at 238 per share, r w.
5 shs Imperial at 238 per share, b 3.
15 shs Imperial at 237½ per share.
70 shs Imderial at 238 per share, s 3.
20 shs Imperial at 238 per share, s 10.
11 shs Imperial at 238½ per share.
10 shs Imperial at 238½ per share, r w.
10 shs Sierra Nevada at 21 per share.
10 shs Sierra Nevada at 21 per share, b 3.
20 shs Sierra Nevada at 21 per share, b 5.
20 shs Sierra Nevada at 20½ at per share.
30 shs Burning Moscow at 6, ass't unpaid.
10 shs Burning Moscow at 5, ass't unpaid.
2 shs Confidence at 122½ per share.
5 shs Confidence at 123 per share.
5 shs N. American, Ex Sam, at 22 per sh.
100 shs Segregated Belcher at 25 per ft, s 30.
4 sh's Empire M & M Co. at 330 per share.
15 shs Sierra Nevada at 20 per share.

AFTERNOON SESSION.

7 shs Yellow Jacket at 1400 per foot, s 30.
6 shs Yellow Jacket at 1410 per foot, r w.
5 shs Yellow Jacket at 1405 per foot, r w.
1 sh Yellow Jacket at 1405 per foot.
35 shs Ophir at 335 per foot, s 5.
12 shs Ophir at 425 per foot, s 3.
48 shs Ophir at 420 per foot.
24 shs Ophir at 420 per foot, r w.
60 shs Ophir at 417½ per foot.
12 shs Ophir at 417½ per foot, s 3.
48 shs Ophir at 415 per foot.
40 shs Daney at 40 per foot.
40 shs Daney at 39 per foot.
20 shs Chollar at 421 per foot, s 5.
4 shs Crown Point at 1140 per foot, s 3.
2 shs Crown Point at 1140 per foot.
4 shs Crown Point at 1150 per foot.
20 shs Imperial at 230 per share.
10 shs Imperial at 225 per share.
75 shs Imperial at 220 per share.
170 shs Imperial at 215 per share.
30 shs Imperial at 210 per share.
5 shs Imperial at 223 per share.
5 shs Imperial at 222 per share.
5 shs Imperial at 221 per share, b 10.
20 shs Imperial at 222 per share, b 5.
5 shs Imperial at 220 per share, s 3.
10 shs Imperial at 222½ per share, b 5.
5 shs Imperial at 223 per share, b 10.
10 shs Imperial at 221 per share.
5 shs Burning Moscow at 5, b 3. ass. unp.
5 shs Burning Moscow at 5½ per share.
50 shs Exchequer at 30 per share.
30 shs Sierra Nevada at 21 per share, b 10.
10 shs Sierra Nevada at 20½ per share.
85 shs Sierra Nevada at 21 per share.
10 shs Sierra Nevada at 21½ per share, b 5.
10 shs Sierra Nevada at 21 per share, b 3.
5 shs Lady Bryan at 7½ per share.
5 shs Bullion at 125 per share.
Amount of sales.....$362,150 00

Thursday, September 21.

2 shs Hale & Norcross at 525 per foot, b 3.
2 shs Hale & Norcross at 520 per foot.
1 sh Overman at 170 per foot.
1 sh Overman at 169 per foot.
5 shs Overman at 167½ per foot, s 30.
3 shs Overman at 167½ per foot.
7 shs Overman at 168 per foot, s 3.
4 shs Overman at 165 per foot, r w.
24 shs Crown Point at 1155 per foot.
6 shs Crown Point at 1150 per foot.
4 shs Crown Point at 1152½ per foot.
4 shs Crown Point at 1160 per foot.
8 shs Crown Point at 1170 per foot.
4 shs Yellow Jacket at 1410 per foot.
5 shs Yellow Jacket at 1400 per foot, s 30.
2 shs Yellow Jacket at 1400 per foot,
1 sh Yellow Jacket at 1405 per foot.
3 shs Yellow Jacket at 1405 per foot, r w.
2 shs Yellow Jacket at 1420 per foot.
1 sh Yellow Jacket at 1425 per foot.
5 shs Yellow Jacket at 1430 per foot.
5 shs Dandelion at 123 per foot, r w.
1 sh Yellow Jacket at 1430 per foot, s 3.
2 shs Yellow Jacket at 1435 per foot.
4 shs Chollar at 420 per foot.
4 shs Chollar at 415 per foot.
40 shs Chollar at 405 per foot, s 30.
8 shs Gould & Curry at 1.00 per foot.
6 shs Potosi at 407½ per foot.
40 shs Daney at 36½ per foot.
40 shs Daney at 35½ per foot.
40 shs Daney at 35 per share.
4 shs Alpha, G H, at 2100 per foot.
1 sh Savage at 1230 per foot.
12 shs Ophir at 420 per foot.
12 shs Ophir at 422½ per share.
5 shs De Soto at 7½ per share.
15 shs Imperial at 225@230 per share.
70 shs Imperial at 231@232½ per share.
22 shs Imperial at 235 per share.
50 shs Imperial at 235 per share, s 3.
5 shs Imperial at 236½ per share.
70 shs Imperial at 237 per share.
20 shs Imperial at 237 per share, s 3.
10 shs Imperial at 238 per share, r w.
54 shs Imperial at 238 per share.
10 shs Imperial at 238 per share, s 3.
10 shs Imperial at 235 per share, b 5.
45 shs Imperial at 232 per share.
10 shs Imperial at 232½ per share, r w.
5 shs Imperial at 232 per share, b 5.
20 shs Imperial at 231 per share, s 3.
20 shs Imperial at 231 per share.
10 shs Imperial at 230 per share, s 30.
5 shs Imperial at 232 per share, r w.
45 shs Imperial at 230 per share, s 10.
10 shs Burning Moscow at 5 per sh, ass unp.
6 shs Burning Moscow at 5½ per share.
20 shs Burning Moscow at 6 per share.
30 shs Wide West at 6¼ per share.
6 shs N. American, Ex Sam, at 23 per sh.
60 shs N. American, Ex Sam, at 24 per sh.
5 shs Sierra Nevada at 20 per share.
4 shs Empire M & M Co. at 230@237½;
10 shs Bullion at 122½ per share.

AFTERNOON SESSION.

24 shs Ophir at 425@440 per foot.
120 shs Ophir at 430 per share, s 10.
2 shs Hale & Norcross at 515 per foot.
2 shs Hale & Norcross at 520 per foot.
2 shs Yellow Jacket at 1400 per foot, s 30.
9 shs Yellow Jacket at 1420@1415 per foot.
3 shs Yellow Jacket at 1420 per foot, r w.
1 sh Yellow Jacket at 1420 per foot, b 5.
5 shs Yellow Jacket at 1410 per foot, s 30.
1 sh Yellow Jacket at 1430 per foot, b 3.
40 shs Daney at 36 per foot, s 3.
40 shs Daney at 32@35 per share.
3 shs Belcher at 880 per foot, s 30.
20 shs Bullion at 415@417½ per share.
15 shs Burning Moscow at 6@6½, ass. unp.
5 shs Lady Bryan at 7½ per share.
15 shs Imperial at 238@239 per share.
75 shs Imperial at 238@240 per share.
54 shs Imperial at 242½@245 per share.
20 shs Imperial at 245 per share, r w.
55 shs Imperial at 240 per share.
40 shs Imperial at 245@235 per share, s 10.
5 shs Imperial at 238 per share, s 5.
25 sh Imperial at 239 per share.
5 shs Sierra Nevada at 21 per share, b 3.
30 shs Sierra Nevada at 20 per share, s 30.
10 shs Sierra Nevada at 21 per share, b30.
20 shs Nevada, J. G., at 22 per share, b 30.
25 shs Sierra Nevada at 20 per sh.
1 sh Empire M & M Co. at 335 per shore.
6 shs Cal. Steam Nav Co at 78½ per ct.
Amount of sales.....$304,090 00

Friday, September 22.

156 shs Ophir at 435@444 per foot.
72 shs Ophir at 444@450 per foot.
138 shs Imperial at 235@240 per share.
20 shs Imperial at 240 per share.
10 shs Imperial at 237½ per share.
2 shs Hale & Norcross at 515 per foot, s 3.
2 shs Overman at 165 per foot.
11o shs Exchequer at 20 per share.
10 shs Justis at 20 per foot. b 30.
1 sh Cal Steam Nav Co at 78½ per cent.
3 sh Empire M & M Co. at 335 per share.
20 shs Yellow Jacket at 1405@1410 per ft, s 30.
8 shs Yellow Jacket at 1420@1415 per foot.
620 shs Daney at 32@35 per foot.
24 shs Central at 250 per seare.
3 shs Belcher at 890 per foot, s 30.
40 shs Crown Point at 1180 per foot.
145 shs Sierra Nevada at 22½@21 per share.
24 shs N. American, Ex Sam, at 25 per sh.
21 shs Alpin, G. H., at 2100 per foot,
60 shs Wide West at 6¾@7 per share.
$10,355 Legal Tender Notes at 74 per cent.

AFTERNOON SESSION.

180 shs Ophir at 445@450 per foot.
192 shs Ophir at 440 per foot, s 3.
10 shs Union Insurance at 65 per share.
5 shs Yellow Jacket at 1400@1390 per foot.
53 shs Imperial at 238@237½ per share.
20 shs Imperial at 237@236 per share, s 10.
40 shs Daney at 35 per foot.
125 shs Sierra Nevada at 22 per share.
5 shs Bullion at 122½ per share.
20 shs Spring Valley W W at 61½ per cent.
Amount of sales.....$148,650 00

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, September 23d, 1865.

There is no apparent dimiuutiou in the amount of capital offering for loan purposes, but the demand ou such securities as the bankers are willing to accept, is rather lighter than usual. Business requirements are moderate, and good mercantile paper is readily taken at 1¼ ₱ cent. ₱ mouth, with occasional negotiations at 1 ₱ cent. The fluctuating character of many of the stock collaterals offered, induces more discrimination on the part of lenders, but outside loans are made at 1½@2 ₱ ccnt. ₱ month.

The receipts of Treasure from domestic sources, since Saturday last, amounted to $1,100,000, making an aggregate of $3,250,000 thus far during the current month. At this season of the year, the receipts from the interior invariably show a falling off, as compared with other periods.

The bullion market was left quite bare at the close of last week, and sales of gold bars were freely made at 860@865. During the past few days they have been taken to account by bankers at about 840, and are in some demand at that figure. Silver bars are also a shade better, and may be quoted at ½ ₱ cent. premium for average lots.

Legal Tender Notes are more active, and small sales have been made at 72¼@74c, closing at 74½ bid, 74 asked. A light requirement prevails at the present moment, but a better demand is anticipated soon for excise, and other purposes. Our latest telegraphic advices from the East quote gold at 143¾.

The general market for most stocks has been without especial animation this week, the excitement being mainly confined to the shares of one company, in which very large transactions took place at variable rates. The magnitude of these operations has elicited considerable discussion in stock circles, but the real character of the movement, and the causes which led to the decline are, we think, now more clearly understood. City stocks are, with scarce an exception, all strongly held at the recent advance.

Pacific Insurance was sold at $185, and is now held at $190. The affairs of this company are in a very promising condition, and their surplus assets, including the rise in the value of securities deposited in Nevada and Oregon, are said to exceed 65 ₱ cent. of the par value of the stock. Union Insurance is in favor at $65 ₱ share bid, for $40 paid. Fireman's Fund is inquired for at $120 ₱ share. The third installment of 50 ₱ cent. on new issue of this stock, will be due on Monday next. California Steam Navigation is offered at 785; San Francisco Gas at $100, and State Telegraph at $30.

Alpha fell from $2,275 to $2,100, and is now well maintained at about $2,100. The third week's crushing of the company's new mill realized some $22,000, from about 350 tons of ore, making in all thus far $58,500, from 1,100 tons of ore.

Yellow Jacket has been dealt in to the extent of 136 feet, advancing from $1,360, seller 30, to $1,430, then selling at $1,415, and closing at $1,390. During week ending 11th inst., 1,269 tons of second class ore were extracted from the mine, and 1,048 tons were reduced, yielding $37,195.06, or an average of $35.46 per ton. Telegraphic advices state, that the east drift from the old shaft in the lower level, has penetrated a body of good ore.

Gould & Curry receded from $1,300 to $1,200, and is now offered at $1,240. We learn of nothing new in this mine. There is no material change in the affairs of the company, and a dividend for the current month is somewhat problematical.

Savage declined from $1,270 to $1,205; rose to $1,230, and sold yesterday at $1,225 per foot. The product of this claim will, it is thought, average about 125 tons of ore per day for September—say 3,250 tons, yielding about $40 per ton for the entire month.

Crown Point has been in better favor, steadily rising from $1,100 to $1,170, then selling at $1,180, and closing at $1,160 bid. In all some 40 feet changed hands. In the lower level drift, some favorable indications have been met with, and the pay strata is supposed to be in close proximity. Belcher rose from $915 to $930; fell to $880, seller 30, and closed at $890 bid.

Ophir advanced from $415 to $455, receded to $415, then sold at $430, seller 10, and closed at $450@440. In drifting from the fourth station, near the border of the old "eave of 1863," a small body of ore has been found. Both mills are now at work, reducing some 30 tons of ore and tailings per day. The tailings bought of the Gould & Curry Co. are producing a net yield to the Ophir of $11 per ton. Receipts thus far the current month, amount to $27,000. On Thursday last, the water in the Mexican shaft was 150 feet in depth. No settlement has been made public with the Burning Moscow Company, so far as we are informed.

Hale & Norcross rose from $505 to $550, fell to $520, and closed yesterday at $520 bid. Chollar fell from $450 to $400, rallied to $422½, receded to $405, seller 30, and closed at $410 bid. Potosi has been dealt in within a range of $405@$410, closing at $405 bid. There is no material change in these two mines. Empire Mill and Mining Co. fell from $357 to $325, rallied to $335, and sold yesterday at $335. There is no change to report in the condition of this mine.

Imperial has absorbed a large share of the attention of the Board, and 2,500 shares were sold, receding from $255 to $230, rallying to $240, declining to $215, advancing to $238, dropping to $231, rising to $246, and selling yesterday at $240@$237½. The receipts of the company since the 10th inst. amounted to $33,000, and are lighter than usual, owing to the poverty of the ores reduced. The 2,000 tons of high grade ores on hand have been held in reserve, and the ores worked thus far the current month were, it is said, expected to show a poor result. The crushings for the balance of the month are likely to be more favorable, and will probably realize not less than $50,000, which, added to the actual surplus remaining on hand, after discounting all unpaid bills, will make an aggregate of $100,000, less, say $40,000, for the ordinary expenses of the mine. In other words, there will be at least $60,000 in the treasury of the company for the next dividend on the 10th of October. We have good authority for this statement.

The lower level drift has developed a body of fine ore, 50 feet in width, and a deposit of poor ore, mixed with porphyry, some 10 feet wide, with about 20 feet yet to run before reaching the east wall of the ledge.

Overman declined from $180 to $169, and sold yesterday at $162 bid. Confidence has been dull and inactive at $125@$124, closing at $125, asked. Bullion steadily receded from $135 to $122½, and sold yesterday at $22½. Daney is also in less favor, declining from $47½ to $33, and closing at about $35.

Burning Moscow declined from $20 to $5, rallied to $6, and closes at $4. Sierra Nevada has been dealt in within a range of $22½@$20, seller 30. North American was sold at $22@$25; Caledonia Tunnel at $8@$7; Wide West at $8@$6½; Baltimore American at $15, and Nevada (J. G.) at $21@$20.

The total recorded sales of stocks at the Board since Saturday last inclusive, amounted to $1,170,234.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends. Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment, Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and all other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Apollo, Lander co , 50c		Oct 7	Oct 23*
Alpha, Gold Hill $50		Aug 26	Sept 27
Alpha, Gold Hill		Special Meeting	Sept 28
Arizona Copper, Arizona, 10c		Sept 23	Oct 6
Arbitrios, Chihuahua, Mex., $1		Sept 30	Oct 12
Bella Vista, Lower Cal., 30c		Oct 14	Oct 28*
Black Ledge, Lander co., $2		Oct 7	Oct 24*
Blue Ledge, Lander co , 50c		Oct 7	Oct 23*
Bacon M. & M. Co., $10		Payable May 10	
Belcher, Baldwin & Abernethy		Dividend of $17, June 3	
Boston, El Dorado co , 50c		Sept 18	Sept 30
Bullion, Marin co., 50c		Sept 16	Oct 2*
Bunker Hill, Eldorado co., $1		Oct 7	Oct 19
Burning Moscow, $15		Oct 6	Oct 18
Buckeye, Lyon co., Nev., $3		Oct 7	Oct 23
Bullion, $16		Levied Sept 7	
Confidence,		Dividend, $100 per foot May 1	
Cholla, Storey co., Nev., $8½		Sept 18	Oct 2
Central, Storey co., Nevada, $5		Sept 6	Sept 26
Cordillera, Chihuahua, Mex., $2		Sept 26	Oct 7
Crown Point, Storey co., Nev., $25		Oct 4	Oct 20
Confidence		Annual Meeting Sept 26	
Capitola, Santa Clara co., 15c		Sept 22	Oct 6
Chipioneua, Sonora, Mex., $5		Oct 14	Oct 28
Cortez, Lander co., Nev., $2		Oct 18	Oct 31
Dunkirk, Lander co		Special Meeting Sept 23*	
Dios Padre, Sonora, Mex., $2		Oct 4	Oct 17
Edward Everett, Lander co., 25c		Oct 14	Oct 28*
Emilia, Guerrera, Mex., 25c		Sept 30	Oct 7*
El Tesoro, La Paz, 50c		Sept 19	Sept 30
Empire M. & M. Co		Dividend Payable Aug 10	
Exchequer, Storey co., Nev. $2		Oct 2	Oct 17
El Taste, Sonora, Mex., $2		Oct 4	Oct 17
Exchequer		Annual Meeting Oct 16	
Franco Americana, $1		Sept 12	Sept 25
Florida, Reese River, Nev. $10		Oct 18	Nov 4
George Washington, Alpine co., $1		Oct 21	Nov 6*
Good Hope, Alpine co., 50c		Oct 14	Oct 28*
Great Western Tunnel		Annual Meeting Oct 5*	
Globe, Alpine co., $2		Sept 23	Oct 12*
Golden Rule, Dividend		Payable Aug 20	
Gould & Curry		Dividend, $40 Aug 5	
Gov. Nye, Devil's Gate, Nevada $1		Sept 12	Sept 25
Guadalupe, Chihuahua, Mex. $25		Oct 3	Oct 18
Hanscom, Copper, Del Norte co , 15c		Oct 7	Oct 23*
Hale & Norcross, Storey co., Nev., $25		Oct 9	Oct 23
Imperial		Dividend Payable Sept 9	
Isabella		Annual Meeting Oct 2	
Ione Lane, Lander co., 50c		Oct 7	Oct 23*
Jewett, Storey co., $1		Oct 4	Oct 21*
Jefferson, Brown's Valley,		Dividend $10 per share Aug 23	
Jupiter		Annual Meeting Oct 16	
Kimblin, Sierra co., $25		Sept 16	Oct 2*
Kentucky, Calaveras co., $1		Oct 10	Oct 30
La Fronteriza, Sonora, Mex. 50c		Sept 30	Oct 14*
Leland, Arizona Territory, 25c		Sept 16	Oct 2*
Lady of the Lake, Arizona Territory 25c		Sept 16	Oct 2*
Lady Franklin, Alpine co., 5c		Sept 16	Oct 6*
La Blanca, Sonora, Mex., 2 50		Oct 12	Oct 25
Lady Bryan, Storey co., Nev. $2.50		Sept 20	Oct 2
Lazzie		Special Meeting Sept 30	
London, Siskiyou co., 50c		Oct 20	Nov 1
Mammoth, Alpine co., $1		Oct 21	Nov 6*
Maggie, Lander co., Nev., $3		Sept 23	Oct 5
Morning Star, Alpine co., Nev. $1		Sept 21	Sept 30
Morning Star, Alpine co., $1		Sept 22	Oct 10
Mina Prieta		Adj, Annual Meeting Sept 25	
North American Tin, Mexico, $1		Oct 14	Nov 1*
Nonpareil, Tuolumne co., $1		Oct 23	Nov 6
North American, Virginia, Nev., $10		Levied Aug 14	
Nestra Senora de Guadalupe, Talisco, $6		Oct 16	Oct 28
Oxford Beta		Sept 23	Oct 11*
Ontario, Lander co., 50c		Oct 21	Nov 6*
Oil Colony Lander co., $6		Oct 14	Oct 28*
Ophir, Storey co., Nev., $8.33½		Oct 3	Oct 13
Pizaro, Lander co., 10c		Oct 21	Nov 4*
Porter, Virginia, Nev. $5		Sept 30	Oct 14*
Potosi, Storey co., Nev., $25		Sept 18	Oct 2
Petaluma M. & M. Co., Dividend of 5 ₱ cent		Aug 9		
Pennsylvania, Alpine co., $2		Sept 9	Sept 28
Aragon, Humboldt co., 30c		Oct 4	Oct 16
Pancheria, San Antonio, L. C. 40c		Sept 12	Sept 26
Porfugio, Chihuahua, Mex., $2 50		Sept 9	Sept 23
Rose		Annual Meeting Sept 25	
Rampson, Alpine co., 25c		Oct 14	Oct 28*
Northern Light		Sept 9	Caution*
Segregated Belcher, Storey co., $2		Oct 7	Oct 23*
Santa Cruz Petroleum, Santa Cruz, 30c		Sept 23	Oct 7*
Santa Cruz Petroleum		Annual Meeting Sept 26*	
Scott M & M Co., Humboldt co., Nev., 80c		Sept 9	Sept 25*
Savage,		Dividend, of $75 May 6	
Santiago		Dividend May 17	
Stephen A. Douglas, Lander co., Nev. $5		Sept 18	Oct 3
Sierra, Douglas co., Nev., $2		Sept 8	Sept 29
Sierra Nevada, Storey co., Nev., $7.50		Oct 7	Oct 21
Sierra Nevada, Storey co., $7.50		Oct 7	Oct 21
Shoshone, Lander co., Nev., $2		Oct 9	Oct 23
Table Mountain, Calaveras co., 50c		Sept 23	Oct 12*
Columne Mountain, 50c		Sept 13	Sept 23
Tunfo		Special Meeting Oct 6	
Trinidad & San Jose, Copala, Mex., $10		Oct 6	Oct 20
Thurium		Annual Meeting Sept 23	
United States, 25c		Oct 16	Oct 28*
United States		Meeting Sept 25*	
Union No. 2, Calaveras co., $1		Sept 9	Sept 23*
Union Star, Devil's Gate, Nev		Annual Meeting Sept 25	
Vulcan, Lander co., 50c		Sept 16	Sept 30*

NAME AND LOCATION.	AM'T OF ASSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Walpi, Arizona, $1		Oct 14	Oct 30*
Wide West, Alpine co., $1		Oct 14	Oct 30*
Yo Semite, Humboldt co., Nev., $1 25		Oct 2	Nov 6*
Yankee Blade, Lander co., 50c		Oct 7	Oct 27*
Yellow Jacket		Dividend of $100 May	

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Branch Mint	Aug 22	1 50
Burning Moscow	Sept 5	15 00
Bullion	Sept 8	10 00
California Consol M & M Co	Aug 23	1 00
Crown Point	Sept 2	25 00
Exchequer	Aug 30	2 00
Globe	Aug 17	1 00
Hale & Norcross	Sept 8	25 00
Jewett	Sept 6	1 00
Lady Bryan	Aug 22	2 50
Mount Diablo	Aug 23	1 50
Orleans Flat	Aug 25	1 00
Ophir	Sept 5	100 00
Peck	Sept 13	1 00
Rogers	Sept 12	5 00
Siegel	Sept 6	50
Sierra Nevada	Sept 17	7 50
Segregated Belcher	Sept 9	2 00
Schiller	Aug 23	1 00
United States	Sept 16	25

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale
Alpha	Sept 27	Gold Hill
American Flat Nevada	Sept 28	Virginia
Central Hawkeye	Oct 13	Gold Hill
Cresus	Sept 22	Gold Hill
Chrystal Peak Consol	Sept 30	Virginia
Eastern Crown Point	Sept 9	Virginia
Globe	Sept 15	Virginia
Hamilton	Sept 12	Virginia
Imperial Consolidated	Oct 7	Gold Hill
Kossute	Oct 14	Virginia
Lincoln	Sept 6	Virginia
Napoleon Consolidated	Sept 25	Virginia
Nevada	Sept 25	Virginia
North Comstock	Oct 7*	Virginia
North American	Oct 20	Virginia
Opal	Sept 23	Virginia
Sierra	Oct 16	Virginia
Union	Sept 28	Virginia

San Francisco Stock and Exchange Board.

SAN FRANCISCO, September 24, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ 72½	$ 73
Gov. Legal Tender Notes	73¾	72
State Bonds, 7 ₱ cent	85	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	..	..
San Francisco Bonds, 1858, 6 ₱ cent	65	70
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	60	55
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	..
Butte County Bonds, 10 ₱ cent	78	..
California Navigation Co	83	84
State Telegraph Stock	30	35
San Francisco Gas Co	95	96½
Sacramento Gas Co	86	..
Spring Valley Water Co	51	51½
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	..	..
Central Railroad Co	40	..
North Beach and Mission	..	..
MINING STOCKS.		
Ophir	$ 450	$ 455
Gould & Curry	1.00	1240
Empire M. & M. Co	335	340
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	1200	1240
Chollar	410	420
Potosi	405	410
Hale & Norcross	505	510
White & Murphy	....	....
Sierra Nevada	20	21
Daney	....	....
Burning Moscow	5	5
Lady Bryan	6	7
Sacramento & Meredith	....	....
Berkside	....	5
Iowa	....	....
El Dorado	....	....
North American	24	25
Baltimore American	15	20
Yellow Jacket	1315	1320
Overman	164	165
Cedar Hill Tunnel	....	....
Wide West	0½	7
Crown Point	1180	1185
Antelope	....	....
Emeralda	....	10
Etna	....	....
Real del Monte	12	15
Silver Hill	....	....
Utah	....	....
Justis	20	21
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co	....	35
Melones and Stanislaus	....	....
Sheba	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H.	132	134
Enckeye	....	....
Dick Sides	....	....
Imperial	240	245
Alpha	2100	2150
Bajazett	....	....

OUR NEW YORK AGENCY.

Mr. GEO. M. NEWTON is our authorized agent in New York City, and will receive advertisements and subscriptions for the MINING AND SCIENTIFIC PRESS at regular rates. Sample copies of our weekly and monthly issues can be procured by calling upon him, at the office of the "STOCKHOLDER," **No. 72 William street.**

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	65@	75
do pickled ₱ lb	50@	60
do Oregon	45@	50
do New York, ₱ lb	40@	45
Cheese, ₱ lb	25@	30
Honey, ₱ lb	40@	50
Eggs, ₱ doz	55@	60
Lard, ₱ lb	30@	—
Hams and Bacon, ₱ lb	20@	27½
Cranberries, ₱ gal	75@	—
Potatoes, sweet, ₱ lb	6@	8
do Irish, ₱ lb	2@	4
Tomatoes, ₱ lb	3@	6
Onions, ₱ lb	6@	—
Apples, No. 1, ₱ lb	3@	6
Pears, table ₱ lb	3@	—
Plums, dried, ₱ lb	10@	15
Peaches, dried, ₱ lb	10@	15
Grapes, ₱ lb	3@	10
Oranges, ₱ 100	2 50@	3 00
Lemons, ₱ 100	6 00@	6 00
Chickens, apiece	75@	1 12

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 22 @	0 00
Do Superfine	5 75 @	6 00
Corn Meal, ₱ 100 lb	@	4 00
Wheat, ₱ 100 lb	1 75 @	1 75
Oats, choice, ₱ 100 lb	1 40 @	1 50
Barley, ₱ 100 lb	1 00 @	1 10
Beans, ₱ lb	3 @	4
Potatoes	1 00 @	1 15
Hay, ₱ ton	10 00 @	15 00
Live Oak Wood, ₱ cord	8 00 @	10 00
Beef, on foot, ₱ lb	8 @	10
Beef, extra, dressed, ₱ lb	16 @	22½
Sheep, on foot	1 00 @	2 00
Hogs, on foot, ₱ lb	8 @	12
Hogs, dressed, ₱ lb	15 @	16

Groceries, Etc.

Sugar, crushed, ₱ lb	16 @	16½
Do China	10 @	12½
Coffee, Costa Rica, ₱ lb	23 @	24
Do Rio	— @	23
Tea, Japan, ₱ lb	85 @	95
Do Green	70 @	90
Hawaiian Rice, ₱ lb	@	10
China do.	8 @	10
Coal Oil, ₱ gal	1 60 @	1 70
Candles, ₱ lb	23 @	25
Ranch Butter, ₱ lb	55 @	65
Isthmus do	35 @	40
Cheese, California, ₱ lb	20 @	26
Eggs, ₱ doz	55 @	60
Lard, ₱ lb	25 @	26
Ham and Bacon, ₱ lb	25 @	26
Shoulders	— @	18

San Francisco Metal Market.

PRICES FOR INVOICES.

Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

SAN FRANCISCO, Aug. 18, 1865.

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1½c ₱ lb; Sheet, polished, 3c ₱ lb, common, 1½@1¾c ₱ lb; Plate 1½c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2½c ₱ lb.

Scotch and English Pig ₱ ton	36	@38
American Pig ₱ ton	35	@36
Refined Bar, bad assortment, ₱ lb	2½	@—
Refined Bar, good assortment, ₱ lb	3½	@—
Boiler No. 1 to 4	4	@ 4½
Plate No. 5 to 9	4½	@—
Sheet No. 10 to 13	4	@—
Sheet No. 14 to 20	5	@—
Sheet No. 24 to 27	5½	@—
COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb		
Sheathing ₱ lb	30	@32
Sheathing, Old	25	@35
Sheathing, Yell	30	@32
Sheathing, Old Yell	12	@12
Bolts	..	..
Composition Nails	30	@32
TIN PLATES.—Duty: 2½c ₱ lb.		
Plates, Charcoal, IX ₱ box	10	@12
Plates, I C Charcoal	9	@10½
Roofing Plates	0	@ 10
Banca Tin Slabs, ₱ lb	41	@42½
STEEL.—English Cast Steel, ₱ lb	12½	@16
QUICKSILVER.—Per lb	—	@65
For export	55	@—
ZINC.—Sheets ₱ lb	9½	@10
LEAD.—Pig ₱ lb	7	@ 8
Sheet	10	@12
Pipe	10	@12
Bar	9½	@10

MINING AND SCIENTIFIC PRESS PATENT AGENCY.

For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 4th, 1861, and March 3d, 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be witheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely conclude his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent, together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $15 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fee for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues. If the application is rejected we a cause through investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specification alled in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The plan adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made, of hard wood or metal, or both, varnished or polished; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be collected. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 yrs and 6 mos	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every application for a patent, for seventeen years	15
On every caveat	10
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, No. 505 Clay street, corner of Sansome, San Francisco.

Economy In Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

POSTPONEMENTS.—We would again call the attention of Secretaries to a certain point of the mining law, too commonly overlooked, viz: The requirement that all postponements must be added previous to the expiration of the regular publication of assessment or sale notices.

Mechanical.

THE IRON AND FOUNDRY INTERESTS OF SAN FRANCISCO.

NUMBER SEVEN—LOCOMOTIVE BUILDING.

It is a noticeable peculiarity of our California artizans and mechanics, that they appear to leave behind them, when they come to this country, the local peculiarities and notions which are always found to attach to the mechanics of the Eastern States, and indeed to those of almost every part of the world outside of California. One of the greatest drawbacks of our Eastern shops, is the disinclination of any one of them to adopt any manifest improvement introduced hy another. Rather than do so, they will set their wits to work to devise some other way to arrive at the same end r ached by another, and oftentimes adopt a complex and quite inferior plan for the simple one first suggested. This disposition grows out of an undue spirit of rivalry between different shops abroad, which is not found existing here. The mechanics of California are cosmopolitan, in fact as well as in feeling; hence their freedom from local jealousies and notions, and the easy adaptability of their genius to the particular and peculiar necessities which are met with on this coast. Hence also the facility with which almost the entire machinery connected with the great industry of mining has been so completely revolutionized in California. So it is with almost every other class of m chinery which has been called largely into use on this coast. This peculiarity is most strongly developed in the

HISTORY OF LOCOMOTIVE BUILDING IN CALIFORNIA.

A branch of business which promises to soon occupy a very important position among the leading mechanical interests of the State. It may be interesting at this time, and in view of its future growth, to give, in this connection, a minute history of the business up to the present time.

As soon as it became apparent that San Francisco was destined to become a great city, attention began to be directed to the enlargement and improvement of the area for its future growth, and it at once became apparent that the sand-hills which formed such a forbidding aspect on its southern and western borders, should be smoothed away, and their debris employed for filling up the low lands and tide-water flats. No sooner did the necessity appear, than the genius of our mechanics was set to work to devise some substitute for the high price of labor which then ruled. A "Steam Paddy" was consequently improvised, and a "pony engine" constructed to wait upon it. That pony engine, which is still doing good service in the sand hills, was the first locomotive constructed on the Pacific coast. The Market Street Railroad was the next necessity which presented itself in this connection; and an engine suitable for such a road was forthwith constructed. Since that time our mechanics have gone on, fitting the locomotives to the particular work required of them, until, a few weeks since, the Union Foundry turned out a heavy, first-class locomotive, which was appropriately christened "California," and which so surprised our people by its superior finish and performance on the San Jose Railroad a few days since.

But to go back and take up the history of locomotive building in detail, we find that the first locomotive built on this coast, was completed in November, 1859. The boiler was made at P. Donahue's shop (now the Union Iron Works), on First street. The machine work was done by Stoddard & Young; the engine was set up in a building in the rear of Hobb's & Gillmore's planing mill, on Market street. It was designed and put together by C. W. Stevens, for Brooks, Stewart & McCoy, and employed, as already stated, to haul sand cars from the steam Paddy, and is still in use for the same purpose. It has four 30-inch driving wheels connected, and two 6x12-inch cylinders, is geared two to one, and weighs about eight tons.

The second, or No. 2, was a "locomotive car," built for the San Francisco Market Street Railroad Company. It was commenced on the 18th day of May, 1860, and so far completed as to make several trips over the road to the Mission and back on the 4th of July following. It was built in the shop of John Spratt, on Pine street, where the Academy of Music now stands, under the superintendence and after the plans made by C. W. Stevens, then master mechanic of the Market Street Railroad. This engine had one pair of drivers thirty inches in diameter, with cylinders 6x14 inches. The third and fourth in order were also locomotive cars, built and designed by the same parties as No. 2, for the Market Street Railroad Company. These locomotives are all still running on that road; they had each one pair of drivers three feet in diameter, with cylinders 9x14 inches.

The fifth was built for the Market Street Railroad Company, in 1861; part of the machinery was fitted up by Devoe & Densmore, corner of Fremont and Market streets. It was put together at the Railroad Company's shop at the Mission, by its designer, C. W. Stevens. This locomotive has one pair of drivers three feet diameter, with cylinders 9x14 inches—built in 1861.

The sixth is a geared locomotive, built for Col. J. S. Ruckel, of Oregon; weight eight tons, and was built at the Vulcan Iron Works, after plans made by C. W. Stevens, in the winter of 1861–2. It ran on a road which was built around the Cascade Falls, on the Oregon side of the Columbia River, and was the first locomotive ever used in Oregon.

The seventh was a regular detached locomotive, weighing about twelve tons, with two pairs of 3-feet driving wheels connected, with cylinders 9x18 inches. It was built for the Oregon Steam Navigation Co., and is still running on their road around the Cascade Falls, on the Washington Territory side of the Columbia River, and was the first locomotive used in Washington Territory. This was also built by the Vulcan Iron Works Co., designed by C. W. Stevens, and completed and shipped from the shop in May, 1862.

The eighth is exactly like the seventh, built and designed by the same parties, and shipped from the shop in May, 1862, and for the same company. It is running on the Dalles Railroad in Oregon. The first time steam was got up, it went up a grade of 376 feet to the mile. This feat was accomplished on a temporary railway, constructed to land it from the vessel, on the elevated bank of the river.

The ninth was built for the San Francisco and Alameda Railroad Company. The boiler and castings were made at the Vulcan Iron Works; the fitting up and putting together was done at the railroad company's shop in Oakland. It has one pair of driving wheels four feet six inches diameter, with 9x18-inch cylinders, and is now running on the Oakland road. It was designed and put together by C. W. Stevens, and was completed September 10th, 1862.

The tenth and eleventh were built by the Vulcan Iron Works Company, for the Alameda Railroad, after designs and plans of the same parties, but was put together under the superintendence of A. L. Stevens, master mechanic of the Alameda Railroad, where both engines are now running.

The twelfth and thirteenth in regular order, but the first of the new or heavy class, were built by Booth & Co., of the Union Iron Works, where two more of the same class are now nearly completed. These engines have already been described in our columns.

J. G. BENNETT, of the N. Y. *Herald*, has purchased the ground on which stood Barnum's great museum. He has 12 years time to pay $450,000; and pays Barnum $200,000 for a lease of the ground which has 12 years yet to run. The lot is 65 by 100 feet. Bennett purposes putting up a building to cost $300,000.

A FINE piece of carpeting, measuring 14 feet by 20, the first of the kind manufactured in Austria, has just been placed in the Museum at Vienna. It presents a map of the railways of Central Europe, and was produced at Prague.

The British Parliamentary Elections.

Full returns of the British Parliamentary elections have been received. They show a decided victory in favor of the Liberals. The House of Commons is composed of 658 members. The Liberals have returned 367, the Conservatives or Tories, 290, one district is contested. This gives a Liberal majority of 77. But this majority is not compact; "for," says the New York *Tribune* "the position of many of the members is difficult to define." Among the Liberals, as among the Union men of the United States, are radicals, moderates, and conservatives; and so among the Tories are similar subdivision and classifications. In the last Parliament 30 Liberals voted against a bill extending the franchise to tenants paying £20 house rent in towns. Of those who so voted, several have been defeated at the late election, which is something of a guarantee that the Parliament elect will grant an extension of the franchise. Among the distinguished Liberals elected are John Bright, Milner Gibson, John Stuart Mill, E. Baines, and Lord Cavendish, all of them early and able friends of the United States during our late civil war. Among the distinguished Tories and enemies of this country, returned, are Roebuck, Gregory, and the pirate ship builder Laird, who sent out the Alabama. Several other notable Tories and enemies of the United States holding seats in the last Parliament have been knocked out of the ring and succeeded by Liberals and friends of this country. Ramsden, who was rebuked by Lord John Russell for declaring from his seat his joy that "the bubble republic had burst," is succeeded by Lord Frederick Cavendish, "the only English nobleman who publicly spoke in favor of the North in its days of struggle and doubt." On the British election contest as related to the American question, the *Tribune* remarks: "Although the American question entered directly into very few of the contested elections, there is no doubt whatever that the result of our war had a great influence upon the general course of the peaceful contest which has just closed in Great Britain. The demonstration here given that popular government has not failed, and the general satisfaction that is felt in England over the non-intervention policy of the Palmerston Government, have strengthened the hands of the advanced Liberals immensely. Our example has shown that popular sovereignty is far removed from anarchy; and the Tories are deprived of their most cogent argument against trusting the mass of the people with power."

SUBSIDENCE OF THE EARTH'S CRUST.—The commune of Buonanotte in France, is hourly threatened with utter destruction. Five manufactories have already been overthrown, and sixty-four more are threatened with imminent ruin. The inhabitants have fled in the greatest terror to the neighboring villages. The cause of the disaster is a sudden and violent depression of the soil, which is at the present time accounted for by one or two reasons—either the fall of an immense mass of earth in the west of the district, or the yielding of the roof of an extensive subterranean cavern. But in reality nothing certain is yet known as to the cause of this most deplorable event. A number of civil engineers have hastened to the spot, and prompt measures are in course of adoption to prevent still greater disaster.

AMBERGRIS.—The schooner S. E. Lewis, recently arrived at Boston from a whaling voyage in the Atlantic, brought home forty pounds of ambergris, a very scarce and valuable article, the market price of which is about seven to eight dollars per ounce. It was taken from the intestines of a whale. Ambergris is a substance highly valued in the manufacture of perfumery, and its commercial value varies accordingly to the amount held in the markets of the world. Before the establishment of the whale fishery, many years ago, it was sometimes found floating on the surface of the ocean, generally on the coast of Africa, and sought a market through the eastern world. This substance is the result of some peculiar disease in the intestines of the whale, very much as the pearl results from a disease of the shell-fish in which it is secreted.

COPPER AND GOLD IN PRINTING PAPER.—It has been chemically ascertained that the paper of books printed in the sixteenth century contains particles of copper, and even gold. This may be explained by the fact that the stuffs employed in those days for the manufacture of paper often contained metallic threads, as it was the fashion then to wear a good deal of brocade.

AMERICANS IN EUROPE.—It is estimated that there are about one hundred thousand Americans in Europe at this time. Probably there will have been altogether not less than two hundred thousand there in the course of this Summer. Paris is, of course, their chief place of resort, but they penetrate into every country of Europe.

GOLD MINES ON THE ISTHMUS OF PANAMA. Senor Antonio Tijera, a gentleman from the interior of the State, and well known among the merchants of this city, says the Panama *Star and Herald*, has just brought several boxes of specimens from the gold mines which he possesses in a district adjoining that of Santiago de Veraguas. A competent assayer, who has had much practice in South America, declares that the specimens are of the best kind, and that one which we had in our hands, would yield at least ten per cent. of pure gold. The same gentleman is so satisfied with the general character of the specimens as indicating rich deposits, that he has determined to join Senor Tijera in the enterprise; and through his enthusiasm on the subject several other practical and experienced Americans and Englishmen, among whom are machinists and engineers, are now forming a company to assist in the working of the mines. Senor Tijera tells us, and his statement is confirmed by a letter from an American at Santiago, that the mills are all erected and that all the appliances are at hand to proceed in the elaboration of the auriferous deposits. There appears to be no doubt, from what we have seen and heard, that with a little financial assistance, at once, the enterprise is sure to succeed, and that a fair chance is now offered for the investment of money in a safe and profitable undertaking.

THE American Antiquarian Society of Worcester Mass., was founded in 1812 by Isaiah Thomas, a well known antiquarian author, printer and bookseller. The library contains about 40,000 bound volumes, besides pamphlets, antiquities, relics, works of art, etc. It is understood to have a fund of $43,000, the income of which is devoted toward the necessary expenses of the institution. It contains original pictures of the Mathers—Samuel Cotton, Increase, and others. A prominent feature is the entire library of Cotton Mather, rich in Puritanic divinity and the decayed leather which antiquarians love. A gigantic statue of a horned Moses (the horns exhibiting the play of the light upon his head "like unto horns," according to the early Bible.) sits in the vestibule, and there is in the library a figure of our Saviour with the cross of like size. These statues, copies of Michael Angelo, were presented by Salisbury, the president. Antiquarian Hall is an ample brick building, and its construction is an honor to the State and country.

PATRIOTISM UNDER A QUILT.—Six young Nantucket ladies made a quilt for the soldiers in January, 1863, upon which they inscribed their names. It was feared that the quilt had been captured by the rebels, but the other day the ladies received a letter from our gallant Capt. Argan, of Rhode Island Fifth, who secured it among his outfit upon escaping from his eleven months' rebel imprisonment. The Captain expresses his regard for the six names which have become so familiar to him, and hopes they may long continue although he wouldn't object to either of the Misses changing her name should a deserving opportunity occur.

A NEW MINING REGION.—James M. Day writes to Gov. Blasdel, from Salt Lake City, a letter descriptive of a new mining region, which he supposes to be in the southeastern corner of Nevada. The letter is published in the Carson *Appeal*, which paper supposes the new mines to be in Utah and not in Nevada. The mines are in what is called Parranagat Lake District, and about one hundred and twenty miles from Call's Steamboat Landing, on the Colorado river. Day speaks of the mines as being rich in silver, and asks for information from the Governor in regard to the proper steps to be taken for the organization of a county.

INCONVENIENT POPULARITY.—A Pennsylvania paper makes the queer announcement that the people of Lancaster have elected Ex-President Buchanan to the high and responsible office of Constable for three years successively. Three times he has been compelled to go before the proper authority, and swear that he was elected without his consent and that he didn't want the office.

THE famous rose-tree planted a thousand years ago by the Emperor Louis le Debonnaire, in the eastern choir of the cathedral at Hildersheim, has been in particularly fine bloom this season, and looks fresher and greener than ever. Two shoots, which sprang up from the knotty millenial roots of the tree in 1863, have attained already the height of the roof.

IT is said that during the last ten years the trade of England has nearly doubled, and wealth has been accumulated at a marvelous rate.

THE LARGEST CANAL in the world is one in China, which passes over two thousand miles and forty-one cities. It was commenced in the tenth century.

Mining and Scientific Press.

V. B. EWER,..... .....SENIOR EDITOR.

C. W. H. SMITH. W. B. EWER. A. T. DEWEY.

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It is Impossible for editors to know all the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides and the evidence of any error which may appear will be received in friendship and treated with respect.

American and Foreign Patents.—Letters Patent for inventors can be secured in the United States and foreign countries through the Mining and Scientific Press Patent Agency. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the Mining and Scientific Press, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good Journal cannot be sustained on the credit system.

San Francisco:
Saturday Morning, Sept. 23, 1865.

SODIUM AMALGAM.

We have declined to give place in our columns to any of the various paragraphs, which have of late been going the rounds of the press of this State in reference to the newly discovered use of *sodium amalgam*, as an aid to the working of auriferous and argentiferous sulphurets, and to the amalgamation of the free precious metals, for the reason that nearly all which has yet appeared on the subject is quite crude and unintelligible, and much of which is manifestly in direct conflict with well known chemical science. An elaborate series of experiments is now in progress in this city, under the direction of competent persons, with the view of ascertaining, by practical operations, the actual effect which is produced by the use of this amalgam in the working of the various ores, and its chemical affinities in relation to their principal constituents. So soon as these experiments are completed, the result will be made known through the columns of the Mining and Scientific Press. In the mean time proper furnaces are being constructed for the manufacture of the metal, at the laboratory of Dr. Lanszweert, on Silver street, in this city; for enough is already known to give it a value in this market, and to insure its introduction on a scale of greater or less magnitude into amalgamtion for both gold and silver. The proprietors of this paper will be prepared in a few days to furnish the fullest information obtainable as to its use, price, etc. We are also prepared to receive (if sent free of transportation) small samples of ore—from one to twenty-five pounds—as a fair average, and give the same a thorough working test, and therefrom furnish, at a mere nominal cost, the necessary information to enable parties interested, to work their ores successfully on a large scale, by the use of this newly applied agent. We have undertaken this work with special reference to the furtherance of the mining interest generally, by the intelligent introduction of this new and important agent into the amalgamating room.

Improved Saw Mill.—The San Francisco Foundry are now building one of J. Hendy's improved double circular saw mills, including a gang of circulars, for Trinidad, Humboldt county, California. The lumber to be sawed by this mill is intended for the San Francisco market.

The New Match Factory recently established at Marysville, by Messrs. Smiley & Simmons, is now ready to supply orders promptly from all parts of Northern California. The proprietors have had much experience in their business.

MINING ACCIDENTS.

There is probably no business followed upon land liable to such a great sacrifice of human life by accidents, as that of mining. This is true even when every precaution is taken which human foresight can employ. Hence the importance that nothing, within the convenient reach of mining superintendents should be neglected to secure to the miner immunity from danger. One of the most common class of accidents of which we hear, are those attending the work about shafts, and the passage of the workmen up and down these thoroughfares to and from their daily labor. At the same time, by the exercise of a little care and precaution, there is no class of accidents which are so completely under the control of the superintendent. The safety-cage and the safety-hook, are within the reach of all; and we have never heard of a bucket disengaged from the rope where a safety-hook was employed, or any serious accident happening in a shaft which was fitted with an improved safety-cage; yet scarcely a week passes without the loss of one or more lives, somewhere among our mines on this coast, where these precautions are not employed. So important is the employment of these safeguards considered in England, that their use, under certain circumstances, has been made a matter of legislative requirement. It would be well for our own law-givers to consider the propriety of some similar enactment for California and Oregon. Employers have no right to trifle with, or needlessly endanger, the lives and limbs of their employees. We have been led to these remarks from reading the following notice, where six lives were almost miraculously saved the past week, at Virginia City. We copy from the *Enterprise*:

Last evening about six o'clock, at the change of "shifts" at the Imperial mine, Gold Hill, six men came up the main shaft on the cage, and on arriving at the surface stepped off, when almost instantly the cable parted and the cage was precipitated several hundred feet to the bottom of the shaft and smashed to pieces. How the cable came to last till the cage with its living freight reached the surface, and then broke just as it was relieved of its load, is one of those wonderful occurrences for which there is no accounting. Had the cable parted a moment sooner, the chances are that every man upon the cage would have been killed.

We are also reminded of an occurrence which took place in the same neighborhood, a short time since, in the Sierra Nevada mine, if we are not mistaken. A safety-cage is employed there, and on the occasion alluded to it had been loaded very heavily with ore, and just as it reached the top of their deep shaft the rope parted. The load was so very heavy, that the descent of the cage could not be completely checked, even by the approved means employed, and it went to the bottom; but at such a slow rate that everything was landed safe and sound; not a bolt was started or a timber broken. It is easy to imagine the crash and destruction which would have followed if the safety-clutch had not been attached to the cage. We again repeat, that no shaft of any considerable depth, should be without this safeguard to life and limb; and no shaft of any depth, not even a hand-windlass, should be employed without a safety-hook. There is a pecuniary economy in their employment, even if no higher consideration is taken into account.

Eighty Miles of "Feet."—Mr. Morgan, Recorder of Excelsior, has been figuring. He says that since June, 1863, when the first locations were made, there have been made eighty miles of locations on leads within the district, embracing over 416,700 feet of ground. Excelsior is a good country for "feet."

Invention.—Thomas R. Land of Graes Valley has invented an improvement on the hook used in holding cars, tubs or cages in their descent into shafts, which the *National* pronounces a good thing.

The degree of Master of Arts has been voted to Senator Stewart, of Nevada, by Yale College.

Patent Telegraph Reel.—We would call especial attention to an advertisement in another column under the head of "Patent Paper Reel for Telegraph Register." This advertisement has been called out by an editorial notice which appeared in the Mining and Scientific Press some three weeks since, of an invention by Mr. L. W. Worth, of Sonoma, of an apparatus for the more convenient adjustment of the ribbon of paper employed in telegraph offices, on which the messages are recorded by the instrument, and by which the ribbon may be readily passed and repassed through the instrument. Mr. McGann, of this city, claims to have already obtained a patent for the same invention, for which Mr. Worth has applied for a patent. Without expressing any opinion as to the conflicting claim set up, we have no hesitation in saying that the improvement is a very important one, and one which must undoubtedly find its way into telegraph offices generally.

Iron Smelting in Colorado.—According to the Denver *News*, the business of iron smelting may now be said to be fairly inaugurated in Colorado. It appears that the Belmont furnace is in operation near Denver, and is turning out two tons of pig iron per day. The ores used are pronounced by competent judges to be the best in the world, and are excelled in richness only by the Pilot Knob and Lake Superior ores; but possess an advantage over these in the fact that they can be easier and more economically worked. The supply of ore is deemed inexhaustible and is easily obtained, one man being able to mine three tons of it in a day.

A New Vegetable.—The Esmeralda *Union* has been furnished with some specimens of "tapoos," which, it says, is the name given by the Indians of Owens River Valley to a rich grass root which grows abundantly in that section, and which they gather to subsist upon in winter as they gather pine nuts for the same purpose. The root or bulb, when divested of the chaff surrounding it, is about the size of a large pea, is of a dark brown color, and has a rich, pleasant taste, similar to that of a hazelnut though much sweeter. In its present wild state it is far superior to many of our favorite garden vegetables of the pea and bean kind.

Asphaltum Discovery in Virginia.—A large deposit of what is probably asphaltum, has been discovered in West Virginia, about ten miles from Cairo, and thirty-one east of Parkersburg, Va. According to the account before us, it "lays in a stratified form, and the vein is from 55 inches deep, to 250 feet thick. So far as traced, the lode is about a mile in length"—a very lucid description truly. Chemical analysis shows it to be "solidified petroleum, chrystalized upon the outside of the vein, and granulated inside." It has been found "possible to distil from the substance a pure oil, at the rate of 160 to 170 gallons to the ton."

Land Titles in the Pennsylvania Oil Regions.—It appears that our Pennsylvania brethren are beginning to be troubled with vexatious lawsuits. In consequence of the loose manner in which business was transacted pertaining to the transfer of real estate in Venanga County, Pa., when the lands were of little value, there has, now that the oil region has become so valuable, arisen great embarrassments to the validity of titles. Real estate litigation is rapidly increasing, and millions of property are in dispute.

Rich Mine.—We understand that one of the leading quartz mines in Grass Valley, has divided within a small fraction of one million of dollars, within the past three years. This is pretty good for a company in which there are only four stockholders.

The New York police picked up over ten thousand lost children last year. All but two hundred and eleven were reclaimed, and these were turned over to the Commissioners of Charities and Corrections.

Cachoiong.—This mineral, according to the Stockton *Independent*, has been found by C. D. Gibbes, in his "opal mine," which he is now working in the coast range of mountains. According to the report before us, we should judge that it was found unusually massive, as it is described as occurring in veins [masses?] three or four feet wide. The editor of the *Independent* has seen a beautiful specimen of this rock, highly polished, and speaks of it as occurring sufficiently massive for table-tops, etc. Cachoiong is a variety of the opal, and, like that mineral, is of volcanic origin, resulting chiefly from molten silex. It is nearly opaque, of a porcelain or bluish white color. It has heretofore been chiefly found on the river Cach, in Bucharia. It consists of from 95@96 per cent. of silex, with 3.47 of water of chrystalization. It usually contains from 0.2@0.7 per cent. each of sodium, potassium, carbon, manganese, and alumina. It is to these minerals that it owes its color.

A Great Natural Curiosity.

The Jacksonville, Oregon, *Sentinel* describes a remarkable natural curiosity, known as the Great Sunken Lake, and situated in the Cascade mountains, about seventy-five miles northeast from Jacksonville. This lake rivals the famous valley of Sinbad the Sailor. It is thought to average 2,000 feet down to the water all round. The walls are almost perpendicular, running down into the water and leaving no beach. The depth of the water is unknown, and its surface is smooth and unruffled, as it lies so far below the surface of the mountain that the currents of air do not affect it. Its length is estimated at twelve miles, and its width at ten. There is an island in its centre, having trees upon it. No living man has ever been able, nor probably ever will be, to reach the water's edge. It lies silent, still and mysterious in the bosom of the "everlasting hills," like a huge well scooped out by the hands of the giant genii of the mountains, in the unknown ages gone by, and around it the primeval forests watch and ward are keeping.

The visiting party fired a rifle several times into the water, at an angle of forty-five degrees, and were able to note several seconds of time from the report of the gun until the ball struck the water. Such seems incredible but is vouched for by some of our most reliable citizens. The lake is certainly a most remarkable curiosity.

The breaking out of the cholera, which is now raging in Egypt, is owing to the pernicious vapors from Mount Araphat since the fetes of the Courban Bairam. Thousands of sheep are sacrificed during the celebration of these ceremonies. The sultan Abdul-Medjid had founded an endowment of 40,000 piastres, to be spent annually for the interment of the remains and offal of the sacrificed beasts, which created so fearful an amount of malaria. On this last occasion it appears that the 40,000 piastres have been duly paid to the contractor for this business, who has quietly pocketed the money and left the putrid mass of flesh to engender disease and destruction over the world.

A Conglomerate Snake.—The latest snake story is told, in good faith, by the Springfield (Mass) *Republican*, of a reptile recently found at Lee. It was nearly four feet in length, about the size of a man's finger, and shaped like a whip-lash; and on a close examination the whole body was found to be composed of small worms about half an inch in length, with large black head and semi-transparent body. On separating them into fragments they would immediately reform into the snake shape and crawl slowly off. One or two other similar snakes have recently been seen in that vicinity. It is to be hoped that they will remain there.

Horses Feeding one Another.—M. de Bousanelle, captain of cavalry, in the regiment of Beauvillers, relates in his Military Observations, "That an old horse of his company, that was very fine and full of mettle, had his teeth all of a sudden so worn that he could not chew his hay and corn; and that he was fed for two months, and would have been so, had he been kept, by two horses on each side of him, that eat in the same manger; that these two horses drew hay from the same rack, which they chewed and afterwards threw before him; they did the same with the oats, which they ground very small, and also put before him. This," added he, "was observed and witnessed by a whole company of cavalry officers and men."

Not a single West Pointer has yet been pardoned by the President. Many of them are begging the boon of mercy, but their misdeeds are remembered against them and they are denied pardon.

MECHANICS' INSTITUTE FAIR.

Award of Premiums.

The Committees on award of premiums to exhibitors at the late Fair of the Mechanics' Institute, have completed their labors, and we give below the list of awards as revised and furnished us by the officers of the Institute:

THE INSTITUTE MEDAL.

This medal, the first of the kind ever awarded by the Mechanics' Institute, was designed for that invention, manufacture, or industrial product, which should be decided to hold out promise of the greatest practical benefit to the people of California. In accordance with the decision of a Committee, of which the Governor of the State was Chairman, the medal was awarded to the Pioneer Woolen Mills of San Francisco.

THE FIVE GOLD MEDALS.

These medals were prepared by the Institute as awards to "articles of new invention of great practical utility to the community, or to manufactures of especial value to the State." Upon the recommendation of Committees appointed for the purpose, the awards are as follows:

To L. Prevost, of San Jose, for the culture of silk-worms—one medal.

To Mathew Keller, of Los Angeles, for the culture of cotton—one medal.

To H. J. Booth, of San Francisco, for a steam engine—one medal.

To Jacob Zech, of San Francisco, for the manufacture of pianos—one medal.

To P. Mezzara, of San Francisco, for the statue of Lincoln—one medal.

DIPLOMAS, CERTIFICATES OF MERIT, AND SILVER MEDALS.

The other awards made by the Institute consist of diplomas, certificates of merit, and silver medals. The first premium is a diploma, and the second premium a certificate of merit. Both diplomas and certificates of merit are, however, frequently awarded where there is no competition, and in such cases the award is given as a "diploma" or "certificate of merit" instead of first or second premium.

The silver medals, of which fifty were provided, are awarded by the Executive Committee of the Institute, as special premiums for domestic inventions and manufactures of superior merit, and in cases where there was competition.

First Department.

C. H. Harrison, city, eccentric steam wrecking pump—silver medal.

A. Hunter, city, grain separator—silver medal.

W. W. Hunscom, quartz crusher—silver medal.

W. R. Frink, city, improved soda machine—diploma.

Pacific Straw Works, for manufacture of bonnets—silver medal.

The Hansbrow Pump Company, of Sacramento, for force pump—silver medal.

Adolphe Hecker, city, finishing lathe—diploma.

V. Cushing & Co., city, excelsior pumps—silver medal.

Thomas Varney, city, amalgamator—silver medal.

J. M. Beath, city, quartz grinder—diploma.

Bargion & Johnson, city, model rock crusher—certificate of merit.

E. T. Steen, city, steam engine.

W. R. Eckart, city, cut-off valve indicator—silver medal.

Vulcan Iron Works, city, double-piston steam engine—silver medal.

Rufus Howland, city, one tree-nail machine—diploma.

Wm. Bruckner, city, rotating roasting furnace—silver medal.

C. Roberts & Co., city, mining car—diploma.

Wheeler & Randall, city, amalgamator—silver medal.

J. B. Baux, city, Baux & Guiod's separator and amalgamator—silver medal.

Israel W. Knox, city, amalgamator and separator—silver medal.

P. Hinckle, city, grinder and amalgamator—certificate of merit.

H. Pierce, city, quartz crusher—certificate of merit.

J. Heudy, city, ore concentrator—certificate of merit.

Rix, Logan & Co., city, Hammer Battery—silver medal.

John Dougherty, city, soap-stone machine—certificate of merit.

Second Department.

Dr. Calvert, city, dental goods—silver medal.

Knowles & Clark, city, artificial teeth on gold—diploma.

E. Belle, city, painless tooth extractor—diploma.

B. L. Solomon & Son, city, decorative upholstery—diploma.

Meyer & Jonasson, city, ladies' cloaks—second premium

A. Muller, sable cape—first premium.

I. C. Meyer & Son, ermine cape—first premium.

W. F. Burke, city, ladies' gaiters—silver medal.

Miss L. C. Baldwin, Marysville, hair work—certificate of merit.

G. B. Hitchcock & Co., city account hooks—silver medal.

R. F. Rocchiccioli, city, electrotyping—silver medal.

Rubber Clothing Company, city, for rubber clothing—certificate of merit.

John Martell, city, silver plated goods—first premium.

Daniel Winter, city, glass signs—first premium.

I. Joseph & Co., city, boy's clothing—first premium.

P. Kelley, city, men's calf boots—silver medal.

Goodwin & Co., city, for unique furniture upholstery (easy chair)—silver medal.

J. L. Ney, city, mantilla work—certificate of merit.

C. A. Fletcher, city, boys' clothing—second premium.

Theodore Van Tassel, city, silk hats—first premium.

J. H. Hammond, city, suit of army clothing—silver medal.

Jules Rolland, city, extension lounge—certificate of merit.

Kerby, Byrne & Co., city, velvet circular—first premium.

J. & C. Schreiber, city, patent spring mattress—certificate of merit.

Third Department.

B. F. Barker, city, patent door spring—diploma.

John Denn, Sacramento, improved cider press—first premium.

E. W. Walton, Drytown, wine and cider press—second premium.

D. & H. A. Winter, city, seed sower and cultivator—first premium.

John M. Horner, city, washing machine—first premium.

Sheffield & Patterson, city, manufacture of saws—first premium.

J. A. Dibblee, Santa Clara, large milk cans—first premium.

F. Nernich, city, cooperage—diploma.

J. L. Chase, city, wasbing machine—certificate of merit.

A. E. White, city, boot-blacking machine—certificate of merit.

Johnson & Reay, city, patent ventilator—silver medal.

H. M. Bernard, Sacramento City, track sulky—second premium.

Kirby & Co., Santa Cruz, sole leather—silver medal.

San Francisco Glass Works, manufactured glass—silver medal.

A. S. Hallidie, city, wire rope—silver medal.

L. Hallaway, Alameda, gang plow—silver medal.

John Mallon & Co., city, ground and cut glass—silver medal.

V. S. W. Parkhurst, city, combination locks—certificate of merit.

M. M. Cook & Son, city, California Manufactured Hose—silver medal.

Will & Finck, city, cutlery—first premium.

Macdonald & Bros., city, sawed cedar lumber—silver medal.

Joshua Hendy, city, blow-pipes—certificate of merit.

James Longshore, city, trunks and valises—diploma.

William Turnbull, city, horse collars—certificate of merit.

C. M. Sickler, city, milk cans and tinware—second premium.

W. T. Garratt, city, brass finishing—silver medal.

Taylor & Iredale, city, California manufactured stove—silver medal.

Easton Bros., city, office secretaries—first premium.

D. Conrad, city, office secretaries—second premium.

Gallagher, Weed & White, city, brass castings—diploma.

J Strahle, city, billiard cushions—first premium.

P. Leisenfield, city, billiard tables—first premium.

A. Folsom, city, light sulky—first premium.

R. Liddle & Co., rifle and shot guns—first premium.

Mullear & Bender, city, improved bench planes—diploma.

M. Price, city, California manufactured cutlery—second premium.

Wilson & Evans, city, sporting implements—certificate of merit.

Charles Slotterbuch, city, telescopic rifle—silver medal.

Brown & Butters, Oakland, shoemakers' lasts—certificate of merit.

Cameron, Whittier & Co., city, silvering glass for mirrors—silver medal.

Fr. H. Rosenbaum & Co., city, mirrors—certificate of merit.

Union Carriage Factory, city, milk wagon—diploma.

J. E. Jorgenson, city, chimney-top—first premium.

Fourth Department.

Rose Lash, city, crotchet bed spread—first premium.

Loomis & Smith, city, lithographs—first premium.

Mrs. E. Piper, formerly Mrs. Morris, city, gents' furnishing goods—first premium.

G. H. Baker, city, lithographic engraving—second premium,

C. W. Boynton, city, mechanical drawing—first premium.

F. S. Butler, city, caligraphy—silver medal.

E. P. Heald, city, penmanship—first premium.

Isabella Howard, city, abdominal supporters—first premium.

Samuel C. Higgins, city, mechanical drawing of locomotive—certificate of merit.

George Pfaff, city, California manufactured flutes—diploma.

Samuel Kellett, city, plaster ornaments and stucco work—silver medal.

Miss E. V. Green, city, wax flowers—first premium.

Daniel Norcross, city, military goods—diploma.

Dr. H. H. Thrall, city, artificial teeth, on vulcanized rubber—first premium.

Mrs. R. C. Alden, city, scarfs—first premium.

Mrs. S. Von Room, city, crochet tidy—first premium.

Bennett & Butler, city, improved dental chair—silver medal.

Mrs. N. G. Kittle, city, worked chemise and pillow-slips—first premium.

Mrs. R. Velasco, city, three embroidered handkerchiefs—certificate of merit.

Mrs. M. Curtis, city, mathematical models for cutting garments—diploma.

Mrs. M. D. Willis, city, fancy quilt—first premium.

England & Turnbull, city, architectural drawings—first premium.

Mrs. C. Cook, city, ornamental hair-work—first premium.

John Roach, city, transit instrument—silver medal.

Miss M. Tolle, city, silk-embroidered bed-quilt—diploma.

F. Arriola, city, portrait painting—silver medal.

Mrs. J. B. Harmstead, city, wax fruit and shells—first premium.

F. A. Butman, city, landscape painting—silver medal.

Nahl Bros. & Dickman, city, oil painting of horse and rider—silver medal.

Miss Mattie Love, city, wax flowers—second premium.

Lawrence & Houseworth, city, stereoscopic views of California scenery—diploma.

A. Kohler, city, Bradbury's pianos—first premium.

Badger & Lindenherger, city, Chickering's grand piano—diploma.

C. C. Keene, city, California manufactured accordeons—first premium.

PHOTOGRAPHS.

The following exhibitors of photographs decided to place their pictures in competition—viz: Bradley & Rulofson, Addis & Koch, Jacob Shew, Nahl Bros. & Dickman, R. Winter, C. E. Watkins, M. Klein. The awards made pursuant to the majority report of the committee appointed for the purpose, are as follows:

Bradley & Rulofson—First premium for life and cabinet size photographs retouched, and for card pictures standing and sitting. Special premium for superior plain photographs.

Addis & Koch—First premium for ivorytypes and vignettes. Special premium for superior plain photographs.

Jacob Shew—Second premium for large photographs retouched, and for general collection of card pictures. Special premium for card pictures. Certificate of merit for plain photographs.

Nahl Bros. & Dickman—First premium for water-colored photographs and for porcelain pictures. Certificate of merit for plain photographs.

Robert Winter—Second premium for water-colored photographs.

C. E. Watkins—Special premium for photographs of California scenery.

M. Klein—Special premium for city views.

Fifth Department.

I. D. Thompson, city, whisky—first premium.

John Sweet, city, Tokay wine—first premium.

Jas. McCaffrus, Santa Barbara, port wine—first premium.

S. Brannan, city, pure juice of the grape—first premium.

Isaac Bromham, San Jose, red wine—first premium,

D. E. Hough, Oakland, best display of fruit—diploma.

M. Keller, city, wine bitters—first premium.

B. D. Wilson & Son, city, California brandy—first premium.

United Anaheim Association, city, white wine—first premium.

J. Sajous, city, "Half and Half"—first premium.

D. L. Perkins, city, California seeds—silver medal.

Mr. Despuis, San Jose, best grapes—first premium.

B. N. Bugbee, box raisins—diploma.

Simon Statas, best specimen of hops—certificate of merit.

Z. Sikes, roller grain mill—second premium.

M. Doane, hay press—second premium.

E. F. Moek, Petaluma, rotary folding hay press—diploma.

T. Maher, Watsonville, convertible gang plow—diploma.

Mrs. Richards, Mission, flowers—certificate of merit.

John Ross, flowers—certificate of merit.

Collie & Stewart, budding plants—certificate of merit.

James Lick, flowers and fruit—diploma.

Mr. Nolan, plants—certificate of merit.

Sixth Department.

S. P. Taylor, Tayloraville, wrapping paper—silver medal.

E. Benoist, city, distilling oils—diploma.

Koenig Brothers, city, riding boots—first premium.

Standard Soap Company, city, soap and washing powders—first premium.

A. B. Winegar, city, crushed salt—second premium.

B. H. Ramsdell, city, specimen of coal—diploma.

California Borax Company, city, borax—silver medal.

C. A. Plummer & Co., fine salt—first premium.

Miss Maggie Coughlin, city, soft soap—certificate of merit.

Brignardello, Machievello & Co., macaroni and vermicelli paste—silver medal.

J. A. Bauer, city, preparation of gold, silver and copper—diploma.

G. W. Gibb & Co., city, case of colors—diploma.

Dewey & Co., city, bound newspapers—MINING AND SCIENTIFIC PRESS—diploma.

A. Grimm, city, hair rejuvenator—diploma.

W. G. Jones, city, California resin—diploma.

Dellwig & Brothers, city, confectionery—first premium.

Joshua Hendy, city, gang circular sawn lumber—silver medal.

W. P. Harrison, agent for San Lorenzo Paper Mills, newspaper—first premium.

San Francisco and Pacific Sugar Refinery, refined sugars—silver medal.

Charles Bernard, city, coffee and spices—first premium.

W. H. Scoville & Co., city, California manufactured candles—silver medal.

William H. Martin, city, Benicia cement—diploma.

Tripp & Robinson, city, fire-works—certificate of merit.

Macpherson & Wetherbee, redwood lumber, diploma.

W. H. Jessup, Eureka Match Factory, California matches—first premium.

J. Pierce & Co., parlor furniture—first premium

Capt. J. M. Aiken, cabinet of minerals—silver medal.

F. E. Mills, album stereoscope—silver medal.

Mrs. John Harding, for skillful embroidering—silver medal.

J. Wiechart, iron safe—diploma.

J. A. W. Lundborg, city, spring flower dentrifice—silver medal.

J. F. Fugazzi, city, case of perfumery—silver medal.

Swain & Brown, city, fancy cakes—first premium.

A. Besson, city, concentrated milk—silver medal.

A. F. Mitchell, city, California made watch, complete—silver medal.

V. Squarza, city, "essential oil extractor" and compounds—diploma.

Attwood & Bordwell, city, windwill—diploma.

Graves & Smith, city, coppersmith work—diploma.

J. L. Moulthrop, city, covering for hydraulic hose—certificate of merit.

T. H. Selby & Co., city, California made lead pipe—silver medal.

Church & Clark, city, fire works—diploma.

Tubbs & Co., city, cordage—silver medal.

Miss Mary Gray, city, chenille work—first premium.

Mrs E. M. Cottrell, city, worsted work (carpet)—diploma.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible.

THE STATE FAIR.

The races at the Fair grounds appear to be the most attractive feature of the season. The opening race between "Norfolk" and "Lodi," on Monday, seemed to be the principal theme of conversation among fast stock fanciers. A majority opinion seems to prevail that the winner, "Norfolk," is capable of making better time and beating anything yet on record. Time on Monday, two miles, 3:37 2-5—3:38½. Both dogs run again on Saturday for the Society's purse of $1,000.

The display of horses this year is very fine. Their parade around the course forms an interesting and pleasing feature. The show of sheep is creditable as to number and quality. The grand parade of stock on Tuesday embraced seventy-four horses; two jacks of extravagant dimensions and exquisite proportions; from one to two dozen short horned cattle, including two large durham bulls, one weighing upwards of 2,300 lbs., the other in the neighborhood of 2,800. The first mentioned bouncing bully hails from England and as a compliment to his high blooded ancestry, is placarded with his pedigree to ggggggd. The few cows entered are fine looking. Only a few fat porkers are exhibited.

We were most interested at the grounds in viewing the two beautiful cashmere goats, owned by Mr. Landrum, of Stockton. Their fleeces, white as snow, soft and glossy as silk really glisten in splendor to the eye. This stock was first sent from Turkey as a reciprocating compliment to our Government for favors shown in the introduction of cotton within the realms of the Sultan. The fleece of these goats reach as high as seven pounds, worth not less than $2 per pound. Length of staple about ten inches.

At the Pavilion on Tuesday evening, Dr. Morse, of San Francisco, delivered a pleasing and entertaining address. The attendance was large; heat excessive. The Fair is said to be less attractive than in former years, yet the hall is tolerably well filled and presents many interesting features, and must be looked upon with considerable credit by those not too familiar with the articles introduced from the Mechanics' Fair. Some fancy work presented by the ladies shows uncommon nicety of finish and taste. This department is well sustained, and we are not sure but close scrutiny with good judgment would render the show of this class of industry here a premium over that exhibited at San Francisco. Mrs. Gov. Low has two superbly worked Afghans which are a real credit in taste, skill, and mechanical industry. In fact, much of the worsted work, hair work, wax work, shell work, etc., will bear the most strict examination with uniform credit.

The sewing machine fraternity are represented by the Grover & Baker, Florence, and Howe. Among other familiar articles from the San Francisco Exhibition we would mention those of W. R. Frink's, soda fountain; Squarza, Will & Finck. J. & C. Schrieber, Koenig Bros., G. R. Porter, M. Keller, Goodwin & Co., Mrs. M. S. Reed, B. D. Wilson, S. P. Taylor, Mrs. C. M. Chapman, Dewey & Co., L. Prevost, M. K. Landenslager, Mrs. C. Cook, John Swett, A. Dreyfoos, N. E. White, P. Mezzara, Wheeler & Randall, Leonard Low, Hansbrow Pump Co., Leffel & Myers, D. Winter, A. N. Rood & Co., S. Brannan, J. C. Mayer & Sons, Bullard & Battles, A. Badlam, W. B. Lake, T. B. Lamb, etc. Col Warren, of the *California Farmer*, has a fine show of curiosities and vegetable antiquities, with some new and rare samples from the vegetable kingdom of the Sandwich Islands. The display of minerals is limited to some dozen samples, mostly by Mr. Layne, of the Layne G. & S. M. Co., near Folsom. He has a particularly fine sample of ore from the Layne lode showing native silver.

Hon. A. A. Sargent speaks at the Pavilion to-night and will have a crowded house. Our time being limited we must defer any further remarks about the Fair. The city just now appears brisk. Liquor shops and saloons of varied entertainments are wonderfully prevalent. The operations of the Central Pacific Railroad seems to give encouragement and confidence for the future of the city. Work on the State Capitol is brisk. The weather cool and fine. A boat race is expected on on the river soon. We examined one of the competing skiffs at the Union Iron Works yesterday. It is about twenty-two feet in length, straight, frail, and light, looking as an arrow. Total weight is about forty pounds with draft of two and a half inches with a person of 150 pounds. Hastily D.

Sacramento, Thursday, Sept., 21st, 1865.

THE HUMBOLDT OIL REGIONS.

The controversy which has long been going on as to the existence of petroleum in paying quantities on this coast, seems to be fast approaching an affirmative conclusion; for we are now receiving small shipments of crude oil by nearly every arrival from Humboldt county, the locality where the first developments were made, and where the work of boring has been most perseveringly persisted in.

The most important surface indications in this county, are found along the banks of the Mattole creek, and here the first wells were sunk, and the first oil struck in depth. By a careful examination of the country, however, those versed in the search after oil, have of late preferred to go north of the Mattole creek in the prosecution of their explorations. They have been led to this from the peculiar change in the oil strata, which is observable to the northward, especially along the sea coast, near and at the mouth of Eel river. The strata there is found to be nearly horizontal, or with but a slight dip to the north, which inclination rapidly increases as the traveler passes south, until it attains a uniform inclination of nearly, or quite, 45°. The argument to be deduced from these facts is, that the greater disturbance south, opens a vent for the escape of the oil at the surface, and renders the surface indications much more noticeable than, where, by a lack of this disturbance, the oil must be kept more closely confined in its subterranean receptacles, until the augur of the prospector reaches its pent-up confines, and gives it an artificial vent for the benefit of the human race, for whose use it was originally designed. A careful examination of the country, from the Mattole creek all the way even to the extreme northern limits of the county, gives the most assuring indications of the existence of oil. The oil produced in the Eel river valley, and to the northward of that point, can be taken to market at a small expense for transportation. With this view of the case, operators are now taking active steps for the development of the oil interest all along the Eel river valley, and in the vicinity of Eureka. Several wells are now in progress; and the probabilities are, that the resources of Humboldt county, in this particular, will soon be largely increased. Nothing but a lack of facilities for transportation prevents, even now, a large supply of the crude oil coming to this market, from the Mattole, instead of the driblets of the few barrels at a time, which we are now receiving.

THE LATE STRIKE IN THE CALEDONIAN TUNNEL.—The Caledonian Tunnel Company of Virginia City have been incessantly at work upon their big tunnel, for five years past, until they have penetrated 2,000 feet into the mountain, cutting three several ledges. They claim title to ten—their ground being bounded on the north by the Overman. The Virginia *Union* of the 15th, says the north drift, which has recently disclosed a seam in the distance of fifty-five feet, has widened to a mass of pay ore, constantly increasing in size and quality, which it is thought will now pay $50 to the ton. The Company think they have the Comstock ledge, or if not, at least something quite as good. The Gold Hill *News*, in speaking of the same strike, says:

This ledge was cut some two years since, but was very narrow at that point in the tunnel. A drift was run south some five hundred feet, and although a large body of quartz was found, it was mostly barren. About six weeks since, another drift was run to the north on the seam, which, at a distance of fifty-five feet, has widened to a fine mass of pay ore, at least nine feet in width, and increasing in good general appearance as the drift is driven on the ledge. About fifty tons of ore have now been carthed, and will doubtless work at least $50 per ton by mill process, as the assayed value is much higher. In a short time this ore will be crushed,, and the Caledonia will realize its first bar of bullion. The character of the ore from the first ledge is evidently very similar to all the ore from the Comstock lode, and we saw a large amount that showed silver sulphurets in a crystallized formation. The foreman, Mr. R. Kavanagh, furnished us with all necessary information, and we could hardly avoid partaking of his exhilaration at viewing the really fine ledge, that will doubtless prove very valuable to the lucky stockholders.

North America

LIFE INSURANCE CO.,

No. 240 Montgomery Street,

SAN FRANCISCO.

The Most Liberal Company

IN THE UNITED STATES.

All Policies Non-forfeitable and Indisputable.

No Extra Charge for Residing in the Territories, or for Traveling to and from the Eastern States.

J. A. EATON & CO.,

Managers of the the Pacific Branch.

PARAGON PETROLEUM COMPANY.

Incorporated June 2, 1865,

Under the Laws of the State of California.

CAPITAL STOCK,

$600,000.

NO. SHARES.....6,000

Par Value.....$100

OFFICERS:

President.....L. LACOUR

Vice President.....C. C. WILSON

Treasurer.....O. C. WHEELER

Secretary.....M. J. McMANUS

TRUSTEES:

L. LACOUR, O. C. WHEELER

C. C. WILSON, M. J. McMANUS.

OFFICE:—No. 206 JACKSON STREET.

The claims of this Company consist of ONE HUNDRED AND SIXTY (160) ACRES of oil land, favorably located on the North Fork of the Mattole river, adjoining the grounds of the Union Mattole Company, Mattole District, Humboldt county, California. The Company are now actively engaged in the development of the claims.

A CHANCE FOR CAPITALISTS.

The Hinckley Quartz Lead,

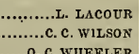
Located in Jackson, Amador county, California, containing four hundred feet, is FOR SALE. It has thus far proved to be the richest claim in the county. For further information, enquire on the premises.

Jackson, Sept. 4th, 1865. T. HINCKLEY.

For any further information concerning myself, I will refer (without permission) to A. Hayward, Esq.; Horace Kellum, Esq.; C. W. Rand, U. S. Marshal; Bigelow Bros., Insurance Agents; M. Abrams, Esq. 10v11-4w

Pacific Mail Steamship Co.

The following Steamships will be dispatched on the following named days.



September 18—COLORADO.....Captain J. T. Watkins.

October 3—CONSTITUTION.....Capt. Farnsworth.

From Folsom street Wharf

At 11 o'clock A. M., punctually to the hour,

For Panama.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company

A Baggage Master will be sent through each trip.

Cabin passengers will be berthed for Atlantic steamer.

OLIVER ELDRIDGE, Agent.

Corner Sacramento and Leidesdorff sts.

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1852. 1865

Thirteenth Year of Publication.

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Founded in 1852.

The oldest Weekly Paper in the State, permanently established, and more widely circulated at home and abroad than any other on the Pacific Coast. In California, the Atlantic States, and throughout the entire field of its great and rapidly increasing circulation, THE GOLDEN ERA is universally regarded as a Literary and Family Journal of unequalled excellence. Among its contributors are all the best writers on this side of the Continent, and correspondents of distinguished ability in New York, Paris and London.

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THE GOLDEN ERA is furnished to CLUBS at the following rates: Three Copies, one year, Ten Dollars; Five Copies, one year, Fifteen Dollars; Ten Copies, one year, Twenty five Dollars. An extra copy will be forwarded, free, for one year, to the person sending a club of five or ten subscribers.

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Or, "LIFE IN DEATH,"

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POSTMASTERS in California, Oregon, and neighboring Territories obtaining subscriptions for the GOLDEN ERA and forwarding the same, with name and address of the subscriber, will be allowed a very liberal commission therefor.

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AN eminent coroner in London recently declared that there were 12,000 mothers in the metropolis who murdered their children.

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—AND—

Practical Mining School,

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5v11-tf R. EMERSON & CO.

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By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by

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Inventor and Patentee.

Monitor, Alpine county, Cal.

W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11

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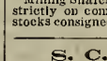

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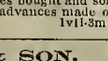

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Mining Engineer and Metallurgist,

Address - - - - - San Francisco. 25v9

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NOTARY PUBLIC,

—AND—

Commissioner of Deeds for the State of Nevada and the Territory of Arizona,

AND FOR THE

STATES OF MASSACHUSETTS AND MAINE.

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No. 422 California street, corner of Leidsdorff.

Drawings of MODELS made for parties applying for patents at Washington or London. mar23-tf.

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10v8-tf

SHERMAN DAY,

Mining Engineer,

No. 56 Montgomery Block, San Francisco,

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LEANDER RANSOM,

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Having been connected with the public works of the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also STATE LOCATING AGENT, and as such having the sale of

600,000 Acres of State School Lands,

At the low price of $1.25 per Acre. Terms: Twenty per cent in cash and the balance on a credit of several years.

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Suitable For Cutting Jewelry,

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Are now prepared to execute orders for the manufacture of

All Kinds of Bottles to Order.

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Book-Binders, Paper-Rulers,

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MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.

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ARTIFICIAL LEG,

Manufactured in Philadelphia, Penn.

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MANUFACTURE Assayers' Scales, Weights, and all articles used by Assayers; Mathematical, Optical, and Mining Instruments repaired and adjusted; Patterns, Small Steam and Air Engines (of the newest construction), and Hydraulic Pressure Pumps, made to order.

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AMERICAN WATCH FACTORY.

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In Gold and Silver Cases,

Constantly on hand, and sold at Factory prices. Also,

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Imported directly from he Manufacturers.

The American Company are now making

VERY FINE WATCHES FOR LADIES.

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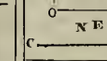

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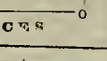

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SAN FRANCISCO.

ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Quartz Mills, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

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Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter. Also, Scott and Eckart's Adjustable Cut-off Regulator—best in use; W. R. Eckart's Balance Valve for Stationary Engines; Woodward's Patent Steam Pump and Fire Engine.

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Locomotive, Flue, Tubular, Upright, Cylinder and Cornish, and every variety of Boiler Work. All sizes of tubes and pipes for pumps.

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Wheeler & Randall's Improved Tractory Curve Pan, Zenas Wheeler's Improved flat bottom pan, Beldin's pan, Veatch's tubs, Prater's concentrators, Wakiee's pans, Becra' pan, Oerman Barrels, Arastra Gearing, Chile Mills, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

BLAKE'S PATENT QUARTZ CRUSHERS, of all sizes.

Oil Boring Tools and Machinery,

Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.

We have the facilities for working gold and silver quartz and other ores, to test their value, by the hundred weight or ton.

Russia Iron Screens, of all degrees of fineness and of all qualities of iron.

All work done in the best manner at the lowest cash prices.

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—AND—

MACHINE WORKS,

First St., between Howard and Folsom Streets,

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EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as

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Machinery, Mining Pumps, Amalgamators,

Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.

All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.

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Vulcan Iron Works Company

[ESTABLISHED 1850.]

First, Natoma and Fremont Streets.

IRON FOUNDERS,

Steam Engine and Locomotive

BUILDERS,

Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as

Mining, Steamship, and Steamboat Machinery,

Railroad Machinery, Locomotives, Car Trucks, Car Wheels, Housings and Irons; and Flouring Mills, Quartz Mills, Sugar Mills, Saw Mills,

Manufacturing Machinery of Every Kind.

Sole Manufacturers of

HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR;
BETHUNE'S AMALGAMATOR;
HERSEE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;
BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;
FAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;
JONVAL'S IMPROVED WATER WHEEL;
STEVENS' PISTON PACKING RINGS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.

Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

☞ As a sample of our manufacture, we invite the attention of visitors at the Fair to our Double-piston Engine, by which the DAILY FAIR PRESS is propelled, in the Pavilion.

JOHN F. GALLAGHER. JOSEPH WEED.

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BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to. Prices moderate.☜ No. 125 First street, opposite Minna, next door to Pacific Foundry. 22tf

[Removed from Oregon street, between Front and Davis.]

INEXPLOSIVE GUNPOWDER.—A London letter of recent date says: "Beside the method rendering gunpowder inexplosive, invented by Mr. Gale, and which the government seems disposed to purchase, we have two new explosives. One is a very strong gunpowder, which is made up of two portions like a seidlitz powder, each inexplosive by itself, to be mixed together before loading the rifle. It has been tried at our nearest shooting-grounds, it is said with good success. The other is a mixture for blasting, a liquid composed of one part of glycerine and three parts of nitric acid. This is poured into a very small hole in a rock, and some water—the only tamping required—is poured on top. A fuse, passing through the water, explodes the mixture with a force so much greater than gunpowder as to very much reduce the cost of such operations."

A FRENCH statistician has discovered the important fact that fewer women than men are struck by lightning. Out of 800 sufferers from lightning in France in ten years only 243 were women, and in England the proportion was still smaller. In many cases, the lightning falling in the midst of groups of persons of both sexes, struck men, in preference to women, whom it spared more or less. What can be the cause of this remarkable difference on the part of the electric fluid?

THE European physicians have experimented until at last they are able to cure the Russian Plague. Out of 364 patients recently admitted in one hospital, only 97 died.

STONES were first used for bullets; iron ones are first mentioned in 1540. Leaden bullets were made before the close of the sixteenth century. Stone cannon balls are still used in the East.

IT is computed that there are 800 acres in cotton in this State, this year. It appears to thrive best in Tulare and Los Angeles counties

SAN JOSE INSTITUTE
—AND—
COMMERCIAL COLLEGE,
LOCATED AT SAN JOSE, CAL.
MALE AND FEMALE.

The next session of this Institution will commence on
Monday, July 31, 1865.

An experienced and competent BOARD OF INSTRUCTION is engaged, and every facility will be afforded for a thorough course of study, both in the Academic and Commercial Departments.
Catalogues, containing full particulars, furnished upon application to
F. GATES, Director,
San Jose, Cal.
25v10-3m

SANTA CLARA COLLEGE, S. J.,
SANTA CLARA, CAL.
Conducted by the Fathers of the Society of Jesus.

The FIFTEENTH ANNUAL SESSION of this College will commence on
Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $350
For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco.
3v11 REV. A. MASNATA, S. J., President.

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Foundry and Iron Works.
HINCKLEY & CO.,
MANUFACTUAERS OF
STEAM ENGINES,
Quartz, Flour and Saw Mills,
Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.
Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

MITCHELL'S
COMBINED
FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.
The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.
The Proprietor has made arrangements with GALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.
Residence, 320 Taylor street, near O'Farrell street.
D. C. MITCHELL, Prop'r.
San Francisco, Aug. 22d, 1865. 10v11-3m

THE PACIFIC IRON WORKS,
First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting Machinery of the most approved construction, Flour, Saw and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Eyerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully solicited.

GODDARD & COMPANY.

BY AUTHORITY OF THE STATE OF CALIFORNIA

Having fully complied with the law by a deposit of $525,000 bonds of the State of California and the United States

BIGELOW & BROTHER,
GENERAL INSURANCE AGENTS,
FIRE, MARINE AND LIFE INSURANCE,
Capital Represented.....$15,000,000.
California Deposit..... $525,000
Office Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.
LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets	$1,500,000
HOME INSURANCE COMPANY, of New York, Assets	3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets	2,000,000
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ARCTIC INSURANCE COMPANY, of New York, Assets	600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets	600,000

CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.

Policies issued on Freights, Cargoes, and Treasure, from and to All Parts of the World. Voyage War Risks taken on Hulls.

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We represent the Oldest and Best Companies in the United States, and offer as favorable terms as any agency on this Coast.

Losses paid immediately on adjustment.

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17-6m General Agents

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WILLIAMS, HEILBRON & CO.,
MANUFACTURERS OF
STEAM ENGINES, BOILERS,
And all kinds of Mining Machinery.
Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.
Front Street, between N and O streets,
6v10 SACRAMENTO CITY.

GEORGE T. PRACY,
Machinist and Blacksmith.
STEAM ENGINE, FLOUR AND SAW MILL
And Quartz Machinery, Printing Presses,
—AND—
MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.
Nos. 109 and 111 Fremont street, near corner of Mission,
OPPOSITE MECHANICS' MILL,
qy-3 SAN FRANCISCO.

PALMER, KNOX & CO.,
Golden State Iron Works;
Nos. 19, 21, 23 and 25 First Street,
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MANUFACTURE ALL KINDS OF
MACHINERY,
STEAM ENGINES AND QUARTZ MILLS
DUNBAR'S IMPROVED
Self-Adjusting Piston Packing,
Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.
WHEELER & RANDALL'S
NEW GRINDER AND AMALGAMATOR,
HEPBURN & PETERSON'S
AMALGAMATOR AND SEPARATOR,
Tyler's Improved Water Wheel,
Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.
KNOX'S AMALGAMATORS,
WITH PALMER'S PATENT STEAM CHEST,
Superior for working either Gold or Silver Ores.
Genuine White Iron Stamp Shoes and Dies
Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

SAN FRANCISCO
Foundry and Machine Works,
N. E. Cor. Fremont and Mission streets,
Manufacturers of
Marine and Stationery Engines,
Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.
—ALSO—
Wine, Cider, Cotton and Tobacco Presses of the latest Improved Patterns.
Brodie's Improved Patent WINO BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Baux & Guiod's Amalgamator and Separator; W. W. Tupper's Patent Sectional Grate Bar; Coal Oil Well Boring Machinery complete, on hand.
STEAM ENGINES AND BOILERS,
Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.
MACHINERY, OF ALL DESCRIPTIONS,
Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates.
6v11-1y DEVOE, DINSMORE & CO.

NOVELTY IRON WORKS,
Steam Engine, Boiler and Machine Shops.
STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.
Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.
WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY*. Send for a Circular.
E. T. STEEN.
39 and 41 Fremont, and 42 and 44 Beale Sts.,
SAN FRANCISCO 21v9tfq

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MOYNIHAN & AITKEN,
Nos. 311 and 313 Mission street, San Francisco.
All kinds of HIGH AND LOW PRESSURE BOILERS built according to drawing or specification, and sheet-iron work executed at the shortest notice, on the most reasonable terms. 1df
T. MOYNIHAN. J. AITKEN.

PORTLAND BOILER WORKS.
MOYNIHAN & AITKEN,
BOILER MAKERS AND SHEET IRON WORKERS.
N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.
Mission street, between Beale and Fremont streets, San Francisco. qy29-t

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STEAM ENGINE WORKS,
Beale Street, near Mission Street,
SAN FRANCISCO.
Steam Engines of every description built to order—Marine Stationary, or Locomotive.
Hoisting and Pumping Engines,
Portable Engines of all Sizes; Donkey Pumps, Etc.
25v9q JOHN LOCHHEAD, Practical Engineer.

LEWIS COFFEY. J. S. RISDON
LEWIS COFFEY & RISDON,
Steam Boiler & Sheet Iron Works.
THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality.
Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

QUARTZ OPERATOR'S
HAND BOOK.

A Book for Every Intelligent Prospector, Shareholder, Miner and Machinist.

ZENAS WHEELER AND P. M. RANDALL,
Authors and Publishers.
BOUND IN CLOTH—144 PAGES, DUODECIMO.

THE QUARTZ OPERATOR'S HAND BOOK is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

The work also contains an original and highly interesting discussion of the tractory and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs. W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Bolshaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on pa 415 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865.

Sold by booksellers generally. Price by mail, postag paid, $1.25. Address "Wheeler & Randall, at the Min'n and Scientific Press Office, San Francisco." 2v11

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.
Assessment No. 7.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, only, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.
Office, 410 Montgomery street, San Francisco. sc23

Globe Gold and Silver Mining Company, Monitor District, Alpine county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 23d day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
C Kirby	1	16	32 00
J M James	2	16	32 00
Frederick Werner,	3	10	32 00
D Davidson,	4	10	20 00
V Squarza	5	5	10 00
V Squarza	6	6	10 00
Myrtilla Minor	7	10	20 00
I S Powers	8	50	100 00
I S Powers	9	60	100 00
I S Powers	10	10	20 00
I S Powers	11	10	20 00
I S Powers	12	10	20 00
I S Powers	13	10	20 00
I S Powers	15	5	10 00
I S Powers	16	5	10 00
I S Powers	18	5	10 00
I S Powers	64	30	60 00
I S Powers	60	50	100 00
Levi Miller	21	5	10 00
Levi Miller	22	5	10 00
Levi Miller	23	5	10 00
Levi Miller	24	10	20 00
Levi Miller	30	10	20 00
Levi Miller	32	10	20 00
L Pilkington	36	5	10 00
E D Williams	37	10	20 00
B Curran	38	5	10 00
Anthony McLean	40	5	10 00
William Gibbie	41	6	10 00
John Sutherland	42	10	20 00
E H Peterson	44	5	10 00
Peter Ramsey	45	10	20 00
Peter Ramsey	46	15	30 00
George Hogan	47	5	10 00
Mrs L M Irving	48	60	100 00
J W Clark	49	5	10 00
Charles Bent	52	25	50 00
Jonas Winchester	53	300	500 00
Nelson Sizer	55	10	20 00
Samuel R Wells	56	5	10 00
Lester A Roberts	57	10	20 00
Lester A Roberts	58	5	10 00
J B Pilkington "not issued,"		25	50 00
D Davidson "		92	184 00
William Hannah "		26	60 00
I S Powers "		10	20 00

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Olney & Co., No. 626 Montgomery street, San Francisco, Cal., on the 12th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

V. B. POST, Secretary.
Office, 1421 Taylor street, San Francisco, Cal. sc23

Constitution and By-Laws
—OF—
Mining and Prospecting Companies

Elegantly printed, with care and dispatch, at the office of the **Mining and Scientific Press.**

☞ Orders from the Interior faithfully attended to.

Oxford Beta Tunnel and Mining Company, Esmeralda District and County, State of Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of (14th) assessment levied on the 14th day of August, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
S M Hoge	150	10	$5 00
S M Hoge	205	20	10 00
S F Wallace	174	10	5 00
Sidney Leman	150	15	7 50
E F Clark	216	10	5 00
E F Clark	217	10	5 00
E F Clark	218	6	2 50

And in accordance with law, and an order of the Board of Trustees, made on the 14th day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold at the salesroom of Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on Wednesday, the 11th day of October, 1866, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

GEO. H. PECK, Secretary.
Office corner Broadway and Sansome streets, San Francisco. s23

Mammoth Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.
Assessment No. 6.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, only, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary,
Office, 410 Montgomery street, San Francisco. sc23

Ontario Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of September, 1865, an assessment of fifty cents per share, was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, or to T. P. CARROLL, at Austin, Nevada.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

A. H. BEWLEY, Secretary.
Office, 323 Montgomery street (Odd Fellows' Hall), San Francisco, Cal. sc23

Santa Cruz Petroleum Oil Works Company, location, Santa Cruz county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 15th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Brooks, Edmd	653	100	30 00
Cooper, J B L	678	15	4 50
Camphell, Mrs Cath E	606	100	30 00
Casselli, A C	599	100	30 00
Coben, Angelo	655	100	50 00
Cook, W S	603	60	15 00
Cerf, Julius	721	29	8 70
Durham, B F	603	5	1 50
Derrick, W H	670	10	3 00
Derrick, W H	573	100	30 00
Derrick, W H	586	11	3 30
Day, Thomas,	688	60	15 00
Day, Thomas,	710	50	15 00
Donnelly, Th	612	35	10 50
Dreschfeld, Henry	601	100	30 00
Dreschfeld, Henry	602	50	15 00
Dreschfeld, Henry	603	50	15 00
Fell, Wm	bal 639	67	17 10
Hemphill, Uriah	661	5	1 50
Hart, Frances M	617	100	30 00
Hazeltine, Wm	160	10	3 00
Langdom, Saml	173	20	6 00
Langdom, Saml	174	20	6 00
Langdom, Saml	175	20	6 00
Langdom, Saml	176	20	6 00
Langdom, Saml	222	50	15 00
Langdom, Saml	342	11	3 30
McClonnan, E D	314	3	90
Monks, R B	400	15	4 50
Mahl, G	600	100	30 00
McCurdy, S H	713	50	15 10
Morris, Th D	728	60	15 00
Morris, Th D	770	25	7 50
Post, Mrs Harmy	815	10	3 00
Reid & Brooks	154	45	13 50
Reid & Brooks	312	0	1 80
Rand, Mary A	138	5	1 50
Root, W D	622	50	16 00
Root, W D	6-3	52	15 60
Reed, H R	730	25	7 50
Shirley, T W	618	100	30 00
Shirley, T W	619	50	15 00
Shirley, T W	620	107	32 10
Shirley, T W	587	50	15 00
Sharp, W H	508	100	30 00
Shirley, J	580	5	1 50
Smyth, E T	119	5	1 50
Smyth, E M	412	5	1 50
Woodward, W A	597	160	45 00
Williams, Edw L	643	20	6 00
Way, Daul E	723	51	15 30
Way, Daul E	724	41	12 30

And in accordance with law, and an order of the Board of Trustees, made on the 13th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Cobb & Sinten, 406 Montgomery street, San Francisco, on the 7th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

R. WEGENER, Secretary.
Office, 415 Montgomery street, San Francisco, Cal. sc23

BACK VOLUMES.

Back files of the MINING AND SCIENTIFIC PRESS, from January 1st, 1864, to the present time, will be furnished at $3 per volume of six months; bound in cloth, $5.

Table Mountain Copper Mining Company, Copperopolis, Calaveras county, C l.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 22d day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Burke, John	171	29	14 50
Buzzodini, D	229	5	2 50
Cutler, Thomas	324 332 15ea	30	15 00
Demill, E G	2 8	25	12 50
Demill, E G	229	11	5 50
Durland, Thomas	239	50	25 00
Geddis, Wm H	33	10	8 00
Geddis, Wm H	34 35 36 37 38 10 ea	50	25 00
Gates James R	246	10	6 00
Honisberger, L	131	100	60 00
Hinchborn, J E	196	15	7 60
Hanson, C	200	15	7 50
Johnson, John	255	10	6 00
Mason, N H A	143	133	66 50
Newby, Richard	240	57	
Newby, Richard	246 301 302 20 ea	00	
Newby, Richard	264 271 50 ea	100	
Newby, Richard	247 303 304 305 307 10 ea	50	
Newby, Richard	306	3	135 00
Phillips, Miss M E	150	6	2 50
Portland, Henry	206	25	12 50
Smith, Mrs C A	238	5	2 50
Suttun, C Jr	290	5	2 50
Sawyer, C L	250	10	6 00
Van De Water, R J	136	30	
Van De Water, R J	156	4	34 17
Van Vlack, Henry	277	15	
Van Vlack, Henry	289	6	10 00

And in accordance with law and an order of the Board of Trustees, made on the 22d day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at No. 626 Montgomery street, San Francisco, Cal., on Thursday, the 12th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

EDWARD C. LOVELL, Secretary.
Office, 436 Jackson street, San Francisco, Cal. sc23

Yosemite Silver Mining Company, Oro Fino District, Humboldt county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 20th day of September, 1865, an assessment of one dollar and twenty-five cents ($1.25) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to D. H. CROWE, No. 402 Front street (up stairs), San Francisco, or to JAS. T. MACLEAN, Superintendent, at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

S. O. PUTNAM, Secretary.
San Francisco, Sept. 20, 1865. sc23

Mining Notices--Continued.

New Mining Advertisements to be found under another heading.

Apollo Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable on the 9th day of September, 1865, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.
Office, 402 Front street, San Francisco. sc9

Bolinas Petroleum Company, Marin County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 14th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Hobden, Wm	13	50	$25 00
Huggins, D	25	80	40 00
Burker & Rosenfield	29	100	50 00
Baxter, E H	11	50	25 00
Fox, H L	10	50	25 00
B Jurgens	14	60	25 00
Foster, L J	28	25	12 50
Stacey, M V	31	10	5 00
Stanles, J S	35	5	2 50

And in accordance with law and an order of the Board of Trustees, made on the 14th day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the office of the Company, 511 Clay street (Room 8), San Francisco, on the 2d day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. L. KIRBY, Secretary.
Office, 611 Clay street, San Francisco. sc16-3w

Bella Vista Gold and Silver Mining Company, Cacachilas District, Lower California.—San Francisco, September 9th, 1865.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of September, 1865, an assessment of thirty (30) cents per share was levied upon the capital stock of said company, payable on the 10th day of September, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, 326 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. FULLER, Secretary.
Office, 326 Clay street, San Francisco. sc16

Black Ledge Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of two ($2) dollars per share was levied upon the capital stock of said Company, payable on the 9th day of September, 1865, in United States currency, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 24th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.
Office, 402 Front street, San Francisco. sc9

Blue Ledge Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 9th day of September, 1865, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.
Office, 402 Front street, San Francisco. sc9

Dunkirk Gold and Silver Mining Company, Reese River District, Lander county, Nevada.

Notice is hereby given, that a Special Meeting of stockholders of the above named company, will be held at the office of the company, No. 312 and 314 Front street, San Francisco, on Saturday, the 23d of September, 1865, at 2 o'clock, P. M., for the election of Trustees.

sc9td (Signed.) J. B. COFFIN, President.

Edward Everett Silver Mining Company, Cortez Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of April, 1864, an assessment of twenty cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.
Office, Room 4, northwest corner Clay and Front streets, San Francisco, California. sc9-5w

Office of the Great Western Tunnel and Mining Company.—San Francisco, September 6th, 1865.

The Annual Meeting of the stockholders of the above Company will be held at the office of the President, Dr. I. Rowell, No. 620 Kearny street, San Francisco, on Thursday, the 5th day of October, 1865, at 10 o'clock A. M., at which the attendance of all stockholders is requested.

sc9-td JOS. C. FORD, Secretary.

Good Hope Gold and Silver Mining Company, Alpine District, Alpine County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 11th day of September, 1865, an assessment (No. 9) of fifty cents per share was levied upon the capital stock of said company, payable on or before the 9th day of October, 1865, in United States gold and silver coin, to the Secretary, at his office, 526 Montgomery street, San Francisco, or to H. MORRIS, at Markleeville. [*Delinquents will be held for accruing costs after the 9th of October.*]

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

PRESTON MORRIS, Secretary.
Office, 526 Montgomery street, San Francisco. sc16

Hancom Copper Mining Company, Low Divide District, Del Norte county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of fifteen cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, 609 Market street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

S. S. SWEET, Secretary.
Office, 609 Market street, San Francisco, Cal. sc9

Joe Lane Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 4th day of September, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable on the 9th day of September, 1865, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.
Office, 402 Front street, San Francisco. sc9

Jewett Gold and Silver Mining Company, Gold Hill District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of September, 1865, an assessment of one ($1) dollar per share was levied upon the assessable capital stock of said company, payable immediately, in United States gold coin, to the Secretary

Any stock upon which said assessment shall remain unpaid on Thursday, the 4th day of October, 1865, will be advertised as delinquent, and unless payment shall be made before, will be sold on Saturday, the 21st day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. M BURNHAM, Secretary pro tem.

Office, 509 Clay street, San Francisco. se9

Kimball n Ravine Company, Sierra County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 12th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
J Bandmann (owned by A Meule)	not issued	4	$100 00
A M Gilman	not issued	4	100 00
W Heyerly	not issued	4	100 00
F v Stech	not issued	4	100 00
A Alers	not issued	1	25 00
F v Richthofen	not issued	3	75 00
F v Richthofen	not issued	4	100 00

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Edwards, Olney & Co., at 620 Montgomery street, San Francisco, California, on the 21 day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

H. NIELSEN, Secretary.

Office, 210 Front street, San Francisco. se10 3w

Leland Gold and Silver Mining Company, San Francisco District, Mohave county, Arizona Territory

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 17th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
L P Ward	74	40	$10 00
Thomas Stewart	48	10	2 50
William Packard	50	50	12 50
William Packard	52	50	12 50
William Packard	53	50	12 50
William Packard	88	100	25 50
William Packard	108	11	2 75

And in accordance with law and an order of the Board of Trustees, made on the 17th day of August, 1865, so many shares of each parcel of said Stock as may be necessary, will be sold at public auction at the Office of the Company, No. 302 Montgomery street, San Francisco, on the 2d day of October, 1865, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

WM. HOLLIS, Secretary.

Office, Room No. 2 (3d floor), 302 Montgomery street, San Francisco. se16-3w

Lady of the Lake Gold and Silver Mining Company, San Francisco District, Mohave county, Arizona Territory.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 17th day of August, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
William Packard	113	261	$65 25
A W Webb	48	20	5 00
A W Webb	49	10	2 50
A W Webb	87	65	16 25
A W Webb	88	35	8 75

And in accordance with law, and an order of the Board of Trustees, made on the 17th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, No. 302 Montgomery street, San Francisco, Cal., on the 2d day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

WM. HOLLIS, Secretary.

Office, Room No. 2 (third floor), 302 Montgomery street, San Francisco. se16-3w

Lady Franklin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment (No. 5) levied on the 15th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
John Bardsley	not issued	2½	$1 75
Crowson Smith	not issued	2	1 00
C Larson	not issued	70½	85 25
John G McCauley	38	4	2 00
Estate of Henry Mercer	124	5	2 50
Geo Loring	163	5	2 50
Maria Silverberg	164	3	1 50
F G Burns	175	3½	1 75
Wm James Thomas	201 10 shares		
	202 5 shares	15	7 50
W H Sawyer	217	10	5 00
M Silverstein	221	1	50
J Haik	222	4	2 00
T K Wilson	49, 1½ share		
	50, 1 share	2½	1 25

And in accordance with law, and an order of the Board of Trustees, made on the 15th day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Messrs. Edwards, Olney & Co, at the office of the Secretary, No. 305 Montgomery street, San Francisco, California, on the 6th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, corner of Pine, San Francisco, California. su16-3w

La Favorita Mining Company, Moctezuma District, Sonora, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 3 th day of August, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 31st day of August, 1865, in United States gold coin, to the Secretary, 429 Sacramento street, San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 30th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 14th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

E. WASSERMAN, Secretary.

Office, 429 Sacramento street, San Francisco. se2

Nevada Gold and Silver Mining Company, Lander county, Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 10th day of August, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Bradley, H W	58	15	$7 50
Brown, F J	90	20	10 00
Daniel, Mch	d	7½	3 75
Drinkelspiel, L	78	10	5 00
Francis, D B	7	7½	3 75
Greene, Sam'l H	70	10	5 00
Harker, W B C	47	5	2 50
Heath, R W	10	22	11 00
Knox, J W	87	15	7 50
Lindenberger, T E	1	7½	3 75
Lindenberger, T E	0d	2½	1 25
Mills, H O	30	5	2 50
Murphy, Daniel	7d	16½	8 33
Upton, M	68	10	5 00
Wightman, Jno	15	15	7 50
Waterman, T A	33	25	12 50
Waterman, T A	34	25	12 50
Waterman, T A	35	20	10 00
Waterman, T A	36	1d	5 00
Waterman, T A	37	5	2 50
Waterman, T A	38	5	2 50
Waterman, T A	39	5	2 50
Waterman, T A	40	0¾	8 33
J J Williams	69	7½	3 75

And in accordance with law, and an order of the Board of Trustees, made on the 16th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Jones & Bendixen, auctioneers, at the office of the Company, on the 6th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street (up stairs). se16-8w

North America Tio Mining Company, Sao Juan del Rio, State of Durango, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 1st day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

se16 I. N. THORNE, Secretary.

Old Colony Silver Mining Company, Austin, Reese River Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of September, 1865, an assessment of six dollars per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 523 Montgomery street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. O. HOWARD, Secretary.

Office, 523 Montgomery street, San Francisco. se16

Pizarro Silver Mining Company, Cortez Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of November, 1863, an assessment of ten cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2 st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees

C. H. BURTON, Secretary.

Office, Room 4, northwest corner of Clay and Front street, San Francisco, Cal. se16-4w

Porter Gold and Silver Mining Company, Virginia District, Nevada,

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of July, 1865, an assessment of five dollars per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at 534 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 14th day of October, 1865, to pay the delinquent assesment thereon, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. W. WESTON, Secretary.

Office, 534 Clay street, San Francisco. jy22

This assessment is re-advertised on account of omission to advertise the delinquent list at the proper time. By order of the Board of Trustees.

C. W. WESTON, Secretary.

San Francisco, September 1, 1865. se2

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine county, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 13th day of September, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable on the 14th day of September, 1865, in United States gold and silver coin, to the Secretary, at the Company's office, No. 55 Montgomery Block, in the city and county of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, S. E. corner of Washington and Montgomery streets. Office hours, 10 A. M. to 3 P. M. San Francisco, September 13, 1865. se16

Santa Cruz Petroleum Oil Works Company—Location: Santa Cruz county, California.

The third Annual Meeting of the stockholders of the above Company will be held at their office, 415 Montgomery street, San Francisco, California, on Tuesday, the 26th day of September, 1865, at 8 o'clock P. M., for the purpose of electing Trustees to serve for the ensuing year, and such other business as may properly come before it.

LEANDER RANSOM, President.

R. WEGNER, Secretary.

N. B.—All stockholders who cannot be present are earnestly requested to file their proxies with the Secretary. au12

Segregated Belcher Mining Company, Gold Hill District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of September, 1865, an assessment of two dollars per share was levied upon the capital stock of said Company, payable on the 11th day of September, 1865, in United States gold and silver coin, to the Secretary, 318 California street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOHN F. LOHSE, Secretary.

Office, No. 318 California street (up stairs), San Francisco, California. se9

Scott Mining and Exploring Company, Humboldt county, State of Nevada.

NOTICE.—There are delinquent, upon the following described Stock, on account of Assessment levied on the 5th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
E A Scott	10	300	$240 00
E A Scott	11	200	160 00
E A Scott (bal due)	144	4	1 60
E A Scott	143	25	20 00
E A Scott	142	25	20 00
E A Scott	187	25	20 00
E A Scott	188	50	40 00
John Barry	113	50	40 00
John H Holman	186	50	40 00
George W Dam	148	2	1 60
George W Dam	184	2	1 50
Linehan & Wiseman	41	5	4 00
Louis Glassea	42	10	8 00
Melina Cbarreau	48	5	4 00
Albert Auhert	49	5	4 00
J M Bowles	181	25	20 00
N Fike	180	10	8 00
Steve A Rendell	191	15	12 00

And in accordance with law, and an order of the Board of Trustees, made on the 5th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Maurice Dore & Co., No. 427 Montgomery street, San Francisco, on the 25th day of September, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

V. B. POST, Secretary.

Office, 1421 Taylor street, San Francisco, Cal. se9 3w

Taurus Mining Company, Santa Fe Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 29th day of August, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 14th day of October, 1865, to pay the delinqnent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner Clay and Front streets, San Francisco, Cal. se2

United States Mining Company, Virginia District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of September, 1865, an assessment of 25 cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold or silver coin, to the Secretary, or to JAS. V. COFFEY, at Virginia.

Any stock upon which said assessment shall remain unpaid on Monday, the 16th day of October, 1865, will be advertiso on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. M. BUFFINGTON, Secretary.

Office, No. 10 Government House, corner Sansome and Washington streets, San Francisco, Cal. se16

Our Circulation.—THE MINING AND SCIENTIFIC PRESS as a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Office of the United States Gold and Silver Mining Company, San Francisco, Cal.—Location of Mines: in Santa Fe and Ravenswood Mining Districts, Lander county, Nevada.

Notice is hereby given, that in accordance with a resolution of the Board of Trustees of the above named Company, passed on Wednesday, the fifth day of July, 1865, and in accordance with the by-laws of said Company, a meeting of the stockholders of the above named Company will be held at the office of the Company, No. 005 Clay street, in this city, on Thursday, the tenth day of August next, at 7½ o'clock P. M., for the purpose of authorizing and empowering the Trustees of said Company to sell one or more of the mines belonging to the said United States Gold and Silver Mining Company, and for the purpose of changing the by-laws of the same, and for the transaction of any and all business that may legally come before the meeting. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

San Francisco, July 5, 1865. jy8-5w

The above meeting is hereby adjourned to the 24th inst., at the same hour and 540 Clay street. By order of the Board of Trustees.

au 12 J. T. PENNELL, Secretary pro tem.

The above meeting is hereby adjourned to the 4th day of September, at the same hour, and 540 Clay street. By order of the Board of Trustees.

au26 J. T. PENNELL, Secretary pro tem.

The above meeting is hereby adjourned to the 25th day of September, at the same hour, and 540 Clay street. By order of the Board of Trustees.

se16 J. T. PENNELL, Secretary pro tem.

Vulcan Mining Company, Santa Fe Mining District, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 15th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount
D E Waldron	2	90	$45 00
D H Hall	42	50	25 00
D H Hall	43	50	25 00
D H Hall	188	35	17 50
G H Willard	53	34	17 00
James Morgan	143	50	25 00

And in accordance with law, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, California, on the thirtieth day of September, 1865, at the hour of twelve o'clock, noon, of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. H. BURTON, Secretary.

Office, Room 4, N.W. corner Clay and Front street, San Francisco, Cal. se16-3w

Wallpi Gold and Silver Mining Company, Moss Lode, San Francisco Mining District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of September, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said Company, payable on the 16th day of September, 1865, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 30th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

H. B. CONCDON, Secretary.

Office, 620 Washington street (Room 5). se16

Wide West Gold and Silver Mining Company, Silver Mountain District, Alpine County, California. Assessment No. 4.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, or to F. L. JACKSON, Superintendent, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 30th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, 410 Montgomery street, San Francisco.

NOTICE.—At the above meeting Assessment No. 2 of 50 cents per share, levied August 22d, 1864, and assessment No. 3, levied March 18th, 1865, also for 50 cents per share, were rescinded, and stockholders having paid the same, or any portion thereof, will be credited on above Assessment No. 4 accordingly.

se16 W. D. ROOT, Secretary.

Yankee Blade Tunnel Company, Reese River District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 4th day of September, 1865, an assessment of thirty (30) cents per share was levied upon the capital stock of said Company, payable on the 6th day of September, 1865, in United States gold and silver coin, to the Secretary, at his office, 305 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 27th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, San Francisco. se9

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

THE Kennebec *Journal* says that a few years since, the wife of the then American Minister to England, received from a friend in New England a box of autumnal leaves, selected for their beauty and their variety of tints. The lady wore them as ornaments, and they attracted much attention, and were greatly admired by the English people. Since then these leaves have been in demand there, and every autumn packages of them are sent over in the steamer, and flash their beauty in the high circles of London.

THE taxes on manufacturers of Philadelphia for a single year, amount to nearly seven millions of dollars.

MINING LAWS AND FORMS.

Third Edition revised and enlarged.

Compiled by H. B. CONGDON.

THIS Edition contains all the laws of the *STATE OF CALIFORNIA* and *NEVADA TERRITORY*, relative to Mining Corporations together with the Mining Ordinances of Mexico, complete; Digest of Decisions of the Supreme Court; Forms etc. 16 mo. flexible cloth, 192 pp. $2.50.

Published by H. H. BANCROFT & CO.

QUICKSILVER

FOR SALE BY

S. F. BUTTERWORTH

Northwest cor. Battery and California sts.

v9-19 SAN FRANCISCO.

BLASTING

POWDER.

EDWARD H. PARKER,

No 224 California Street,

Agent of the

Hazard Powder Company.

EUREKA

PATENT BLASTING POWDER.

Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets.

Room No. 9, with San Francisco Chemical Works,

CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2v11-y

OIL WELL BORING.

J. SEVENOAKS,

Contractor

For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1229 San Francisco. 2v11

KELLOG CREEK

PETROLEUM AND MINING

COMPANY.

INCORPORATED JULY 11TH, 1865,

Under the Laws of the State of California.

NO. SHARES.....10,000

Par Value.....$50 00

W. F. BRANDRETH.....President

J. M. BUFFINGTON.....Secretary and Treasuror

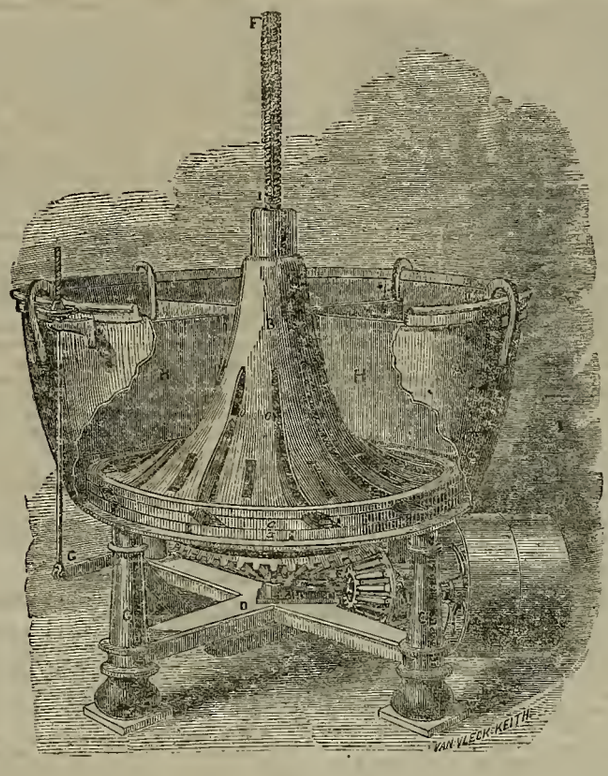
OFFICE—Room No. 10 Government House, corner of Sansome and Washington Sts., San Francisco.

The claims of this Company consists of SIX HUNDRED AND FORTY (640) ACRES, situated on Kellog Creek, in the Marsh Creek Mining District, Contra Costa county, Cal.

One thousand (1,000) shares of the contingent fund is offered at the low price of ONE ($1.00) DOLLAR per share, full paid, all the stock being unassessable. All who wish to purchase, or make any enquiry concerning the Company, will please call on the Secretary,

J. M. BUFFINGTON,

2v11 Corner of Sansome and Washington streets.



THE EXCELSIOR

GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

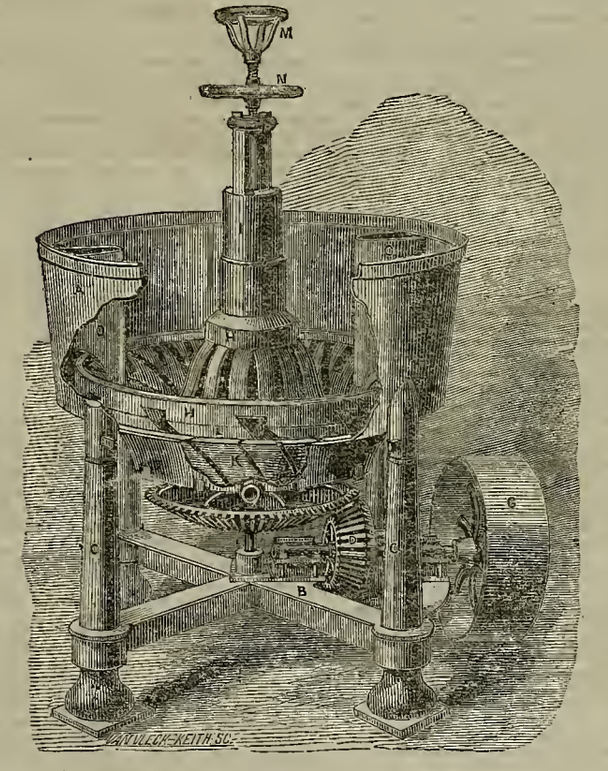
Union Iron Works and Golden State Iron Works,

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.



THE

WHEELER & RANDALL

Grinder and Amalgamator

In the engraving herewith exhibited, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Plates.

The attention of the Public is respectfully called to these facts:

1st. That the Mechanical work accomplished by differently formed grinding plates, having the same diameter, weight, hardness, and revolving at the same velocity, is as follows, to wit:

The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory-formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

2d. That as a whole, the Wheeler & Randall Grinder and Amalgamator is one of the most simple, compact, substantial, convenient and efficient pans in use.

☞ Patent applied for.

MANUFACTURED AT

GOLDEN STATE IRON WORKS.....San Francisco.
UNION IRON WORKS..... "
MINERS' FOUNDRY..... "
SAN FRANCISCO FOUNDRY..... "
PRESCOTT & SCHEIDEL.....Marysville.
OREGON IRON WORKS.....Portland, Oregon.

WHEELER & RANDALL, Inventors.

SAN FRANCISCO, JUNE 13, 1865.

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 16, 1865. 11v10-tf

SAN FRANCISCO

CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at TURBS & CO.'S,

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14v10

WE ARE NOW OFFERING

OUR IMMENSE STOCK

—OF—

Fine Custom Made Clothing

—AND—

Gents' Furnishing Goods

AT PRICES THAT DEFY COMPETITION.

Our Stock of Clothing Consists of

ALL THE LATEST STYLES

BOTH OF MATERIAL AND FINISH.

A Large Assortment of

Trunks, Valises, Carpet Bags, Blankets, Etc.,

AT EXTREMELY LOW PRICES.

J. R. MEAD & CO.,

8v10 Cor. of Washington and Sansome streets.

SACCHARINE.—Wm. T. Coleman & Co. have sold their interest in the Pacific and San Francisco Sugar Refinery to Nicholas Luning, D. O. Mills, W. C. Ralston and R. Fuerstein.

IN England, a half holiday on Saturday afternoon is almost universal among business men and manufacturers. Few factories or stores are open, and the principle is even extending into the public offices.

BIG WORK.—On the farm of General John Bidwell, at Chico, Cal., this Summer, in thirty-six days and six hours were threshed out 40,618 bushels of wheat. That is farming to some purpose.

Agent Wanted.

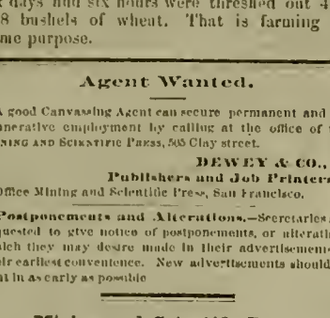
A good Canvassing Agent can secure permanent and remunerative employment by calling at the office of the MINING AND SCIENTIFIC PRESS, 505 Clay street.

DEWEY & CO.,
Publishers and Job Printers,
Office Mining and Scientific Press, San Francisco.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible

Mining and Scientific Press
JOB PRINTING OFFICE,

No. 505 Clay street, corner of Sansome.



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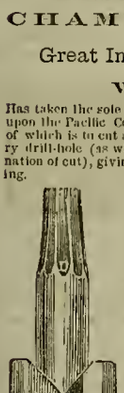
STOCK
—FOR—
MINING
—AND—
PETROLEUM
Companies
Neatly Printed.

Stock Certificates of all kinds embellished with wood cuts and electrotype engravings. We devote special attention to the execution of all kinds of work required by Mining Companies, Machinists and Manufacturers.

Machinery.

ATTENTION, MINERS!
LINSCOTT'S PATENT
CHAMBER DRILL.
Great Improving in Blasting.
W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.



D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ⅛ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

M. DISNEY'S
Endless Chain Water Wheel

Gives the greatest power from the same amount of water of any wheel in use. Every pound of water used gives one pound power. It is cheap and easily constructed, and can be built anywhere, and may be so constructed as to give any amount of power according to the amount of water and the fall. It is now on exhibition at

521 Market street, in this City.

All are invited to call and see for themselves. We are ready to put in Wheels either on sluggish streams or under head. RIGHTS FOR SALE.

☞ This Wheel is peculiarly adapted to running streams, where parties cannot build dams so as to make use of the fall.

M. DISNEY, Inventor.
San Francisco, Sept. 6th, 1865. 11v10-4w

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for pronducing simi ar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th.

[Illustrated in the Mining and Scientific Press, April 9th, 861.] HEPBURN & PETERSON,
. nov8 3m*

NOTICE TO MINERS.
NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1861; his Comanche Quartz Crusher; his Pulverizer; and his Improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast, amalgamate, assort, concentrate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. B. FAUCHERY, Engineer,
24v9

BLAKE'S
QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA,
WASHOE,
ENGLAND, FRANCE,
— AND —
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,
Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.
4v10

VARNEY'S
PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the apertire and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setlers made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setlers for themselves, at the PACIFIC FOUNDRY,
1v1 San Francisco.

NOTICE.

The undersigned having purchased the EXCLUSIVE RIGHT in and for the State of California, for the

Manufacture and Sale of
WINHAM'S
PATENT HOSE COUPLING,

Hereby caution all parties against the manufacture or purchase of the above Hose Couplings, except through us, as any infringement will be prosecuted to the full extent the law.

PRESCOTT & SCHEIDEL,
Marysville Foundr
March 31st, 1865. 13v10

SALMON'S
PROPELLOR AMALGAMATOR
— AND —
Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address
9v11 J. & W. C. SALMON.

SAVE YOUR BOILERS AND FUEL.

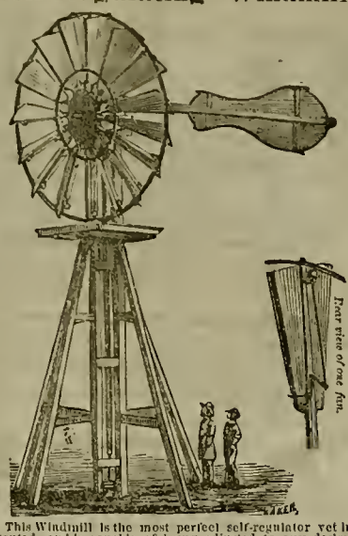
ONE-EIGHTH OF AN INCH OF DEPOSITON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery, or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to
JOHN MAILER,
Engineer of Pioneer Flour Mills, No. 515 Market street above First (opposite the Oriental Hotel), San Francisco.
23v10

ATWOOD'S
Self-Regulating Windmill.



This Windmill is the most perfect self-regulator yet invented, and is capable of being adjusted to any desired speed. Manufactured at

222 Mission Street, North side, below Beale,
SAN FRANCISCO.

N. B.—We also manufacture DICKERSON'S SELF-REGULATING MILLS; also, Rotary and Stationary Mills of different styles and prices, varying from $50 to $500 each; also round and square Water Tanks made to order.

222 Mission street, below Beale. 5

HUNT'S
IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN
HORSE POWER
For Sawing Wood.
ALSO, THE
Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,
No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26 3m

HUNT'S PATENT
Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,
7v10 28 Second street, San Francisco

DENIS WHELAN,
Fashionable Boot Maker

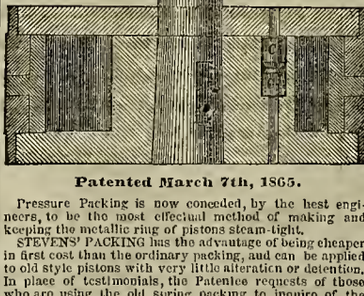
REPAIRING NEATLY DONE, AT SHORT NOTICE.

No. 17 Fourth Street,

Near Market street, San Francisco.

15v10 1m*

Stevens' Pressure Packing.



Patented March 7th, 1865.

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

STEVENS' PACKING has the advantage of being cheaper in first cost than the ordinary packing, and can be applied to old style pistons with very little alteration or detention. In place of testimonials, the Patentee requests of those who are using the old spring packing to inquire of the owners of the various engines which now have this packing in use—some of which have been running from three to twelve months without being opened, or showing any descriptive leak—and act upon their recommendation.

Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Alameda Railroad, or at the VULCAN IRON WORKS, where they can be seen, at any time, in course of construction.

10df ANDREW STEVENS.

WATER WHEELS!

Equal to the Best Overshot Wheel

POWER PLEDGED

IN EXISTENCE.

LEFFEL'S
AMERICAN DOUBLE TURBINE,

Is now manufactured by the Vulcan Iron Works Company, in this city, and orders for the same can be filled immediately. We have a large supply of the different sizes, from 20 inches to 30½. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 100 to 300 pounds, will yield from 10 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to

LEFFEL & MYERS,
At Vulcan Iron Works, office 137 and 139 First street, San Francisco. 4v11-tf

TO QUARTZ MINERS.
Hinkle's Centrifugal Pulverizer and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUGAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steen, Nos. 37 & 39 Fremont street, between Market and Mission streets.

This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine, made entirely of Iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

Mr. Hanson, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 60 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to

PHILIP HINKLE,
At the Novelty Iron Works, Nos. 37 & 39 Fremont street.
16-1m

BAUX & GUIOD'S
Separator & Amalgamator

Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; its small cost; its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jeffersonian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crail's Gravel Cement Works, Nevada county; Washoe Amalgamation Works, Nevada, Cal.; Cold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Hengh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,
Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8-6df

McCOMB'S
CUMULATIVE POWER PRESS
AND
ARROW TIE.

E. C McCOMB, Agent.
No. 1 Government House, cor. Sansome and Washington sts.
23v10 3m

HANSCOM'S CRUSHERS,

Made in sizes suitable for Breaking Quartz for Batteries; Rock for macadamizing or concrete; Copper Ore for sacking, sampling, or concentrating; also, for crushing Quartz for Arastras and Grinders. The small sizes make a most efficient Crusher for Prospectors, and are arranged to be run by Hand, Horse, Water or Steam Power. For further information address W. W. HANSCOM.
Golden State Iron Works, San Francisco.

RUM AND SUGAR IN THE LUMP.—A new process of boiling the juice of the sugar-cane has recently been introduced in the island of Antigua, West Indies, which does not convert the juice into separate articles, distinct in nature, such as sugar, molasses and rum, but into a solid compound containing all these articles in a single mass, from which, afterwards, the refiner extracts the various articles of commerce which it contains. The new process was discovered by an English chemist, and it is thought that it will work quite a revolution in sugar making everywhere.

Away with Spectacles.

Old Eyes made new, without SPECTACLES, DOCTOR, or MEDICINE. Pamphlet mailed free on receipt of ten cents. Address E. B. FOOTE, M.D., No. 1130 Broadway, New York.
11v10-2m

REMOVAL!

R. WEGENER,

Accountant and Mining Secretary

Has removed to

No. 415 Montgomery Street—west side,

Between Sacramento and California sts.,

6v10 SAN FRANCISCO.

"Patent Paper Reel for Telegraph Register."

SAN FRANCISCO, Sept. 18, 1865.

ENG. MINING AND SCIENTIFIC PRESS—*Sirs:*—Having noticed the above heading in your valuable paper of the 9th inst., I beg leave to inform you that the invention is not Mr. L. W. Worth's, but one already patented by me, while a resident of Cleveland, Ohio. His form of reel is one that I first got up in 1863, and filed a caveat for, and afterwards improved by putting some gearing, or clock machinery, so as not to use so much cord. The length of cord that I use now to run all day, would not run his reel one hour. After making my improvement, I applied for a patent, which was granted to me on the 19th of January, 1864. That patent covers all of his, so-called, improvement, as will be seen by my patent (No. 41,312) which claim reads as follows:

"What I claim for my improvement, is the arrangement of the mutually exchangeable reels D and F, in combination with the gears, cord, pulleys, and weight, the several parts being constructed, arranged, and operating as and for the purpose herein set forth."

This patent was obtained for me by Messrs. Brainard & Burridge, of Cleveland, Ohio, Patent Solicitors. And I further state, that all persons wishing to use said Paper Reels, will please to come and make arrangements with me for their use. As for any advantage he has over other reels, it can only be that he has a greater length of cord to to wind up. Those that I built, of his style, before I had mine patented and after I filed a caveat, had all to be exchanged for my new Reel. In putting mine up it takes only six screws to do the whole business, and takes up so little room that it is quite a convenient and useful instrument.

Address, HENRY McGANN,
12v11 At the Union Works, First st., San Francisco.

OIL WELL BORERS.

A CONTRACT WILL BE LET TO A RESPONSIBLE party to sink an Oil Well, as deep as may be required, on land belonging to the "Eel River Oil Company," situated in Humboldt county, Cal. For particulars, inquire at the office of the Company, No. 436 Jackson st., up stairs.
12v11-1m E. H. WILSON, Secretary.

THE STYLE

—FOR—

Fall and Winter, 1865,

Will be introduced Aug. 26, at

MEUSSDORFFER'S

HAT MANUFACTORIES,

Nos. 635 & 637 Commercial st., San Francisco,

No. 125 J st., bet. Fourth & Fifth, Sacramento.

Corner D and Second Streets, Marysville.
12v11

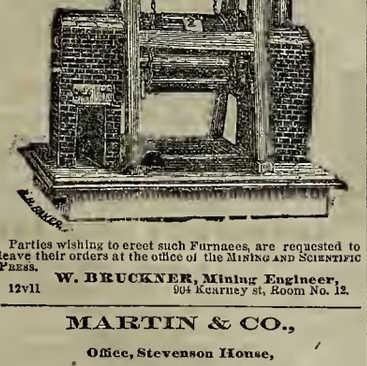
The Mechanics' Institute

AWARDED A

PREMIUM SILVER MEDAL

TO BRUCKNER'S

MECHANICAL ROASTING FURNACE.



Parties wishing to erect such Furnaces, are requested to leave their orders at the office of the MINING AND SCIENTIFIC PRESS.

W. BRUCKNER, Mining Engineer,
12v11 904 Kearney st, Room No. 12.

MARTIN & CO.,

Office, Stevenson House,

Cornor California and Montgomery streets (up stairs).

WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES,

Assaying eight per cent. and upwards of Copper to the ton.

We will make advances upon Ores of Copper.

San Francisco, Post Office Box 1259, 22v10

W. T. GARRATT,

City

BRASS AND BELL FOUNDER,

Cor. Market and First Sts., opposite Oriental Hotel,

SAN FRANCISCO.

Manufacturer of Brass, Zinc, and Anti-Friction or

Babbet Metal Castings;

CHURCH AND STEAMBOAT

BELLS,

TAVERN AND HAND BELLS AND GONGS,

FIRE ENGINES, FORCE AND LIFT PUMPS,

Steam, Liquor, Soda Oil, Water and Flange Cocks, and Valves of all descriptions, made and repaired. Hose and all other Joints, Spelter, Solder, and Copper Rivets, &c. Gauge Cocks, Cylinder Cocks, Oil Globes, Steam Whistles,

HYDRAULIC PIPES AND NOZZELS

For Mining purposes, Iron Steam Pipe furnished with Fittings, &c. Coupling Joints of all sizes. Particular attention paid to Distillery Work. Manufacturer of "Garratt's Patent Improved Journal Metal."

☞ Highest Market price paid for OLD BELLS, COPPER AND BRASS. ☜ 6tf

CALL STABLE.

N. GISHWILLER

Would respectfully inform the public that he has opened a large and well-arranged LIVERY STABLE,

On B street, Summit City, Cal,

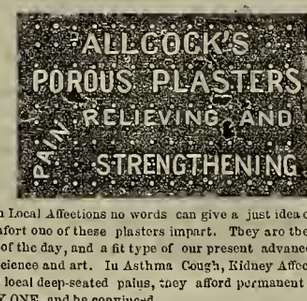
(two doors below the Lake House), where good Saddle and Buggy Horses can be had at all times. Our charges will be reasonable, and we hope, by prompt attention, to merit a share of the public patronage. 10v11-3m

Ten Able-Bodied Copper Miners WANTED,

At the Bunker Hill Mine,

To work for wages (three dollars per day), or on contract.

10v11-tf RICHARD POWNING, Superintendent.



In Local Affections no words can give a just idea of the comfort one of these plasters impart. They are the plaster of the day, and a fit type of our present advancement in science and art. In Asthma Cough, Kidney Affections, and local deep-seated pains, they afford permanent relief. TRY ONE, and be convinced.

PRINCIPAL OFFICE,

T. ALLCOCK & CO.,

Brandreth's Building,

New York.

W. F. BRANDRETH,

OFFICE AT

Crane & Brigham's.

SAN FRANCISCO.

☞ **FOR SALE BY ALL DRUGGISTS.** ☜
9v25q

LEHIGH COAL.

200 Tons Large Lump Lehigh Coal

Now on Hand.

I am also in constant receipt of

LEHIGH COAL,

And will be able to supply it always

At the Lowest Market Price.

JAMES R. DOYLE,

20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

PREMIUMS.

1st Premium, at Sacramento Fair.....1862

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Awarded to

V. SQUARZA.

MINING LAWS AND FORMS.

Third Edition revised and enlarged.

Compiled by H. B. CONGDON.

THIS Edition contains all the laws of the *STATE OF CALIFORNIA* and *NEVADA TERRITORY*, relative to Mining Corporations together with the Mining Ordinances of Mexico, complete; Digest of Decisions of the Supreme Court; Forms etc. 16 mo. flexible cloth, 192 pp. $2.50.

Published by H. H. BANCROFT & CO.

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

HELMBOLD'S

FLUID EXTRACT BUCHU

For Non-Retention or Incontinence of Urine, Inflammation or Ulceration of the Bladder or Kidneys, Diseases of the Prostrate Gland, Gravel, Brick Dust Deposits, Dropsical Swellings, Organic Weakness, Debility, Female Complaints, Etc.

H

HELMBOLD'S

FLUID EXTRACT BUCHU

—AND—

Improved Rose Wash

Will radically exterminate from the system Diseases arising from Habits of Dissipation, *at little expense, little or no change of diet, no inconvenience or exposure;* completely superseding those *unpleasant and dangerous remedies, Copaiba and Mercury,* in curing those diseases.

E

USE HELMBOLD'S

FLUID EXTRACT BUCHU

In all Diseases of the Urinary Organs, whether existing in MALE OR FEMALE, *from whatever cause originating, and no matter of how long standing.* It is pleasant in its taste and odor IMMEDIATE in action, and more strengthening than any of the preparations of *Bark or Iron.*

Those suffering from *Broken Down or Delicate Constitutions, procure the Remedy at once.*

The reader must be aware that however slight may be the attack of the above diseases, it is certain to affect his *Bodily Health, Mental Powers and Happiness.* If no treatment is submitted to, Consumption or Insanity may ensue.

All the above diseases require the aid of a diuretic.

Hembold's Extract Buchu

IS THE GREAT DIURETIC.

L

HELMBOLD'S

HIGHLY CONCENTRATED

Compound Fluid Extract Sarsaparilla,

For purifying the Blood, removing all diseases arising from exeess and imprudenee in life, chronic constitutional diseases arising from an impure state of the blood, and the only reliable and effectual known remedy for the cure of Scrofula, Scald Head, Salt Rheum, Pains and Swelling of the Bones, Ulcerations of the Throat and Legs, Blotches, Pimples on the Face, Tetter, Erysipelas, and all scaly eruptions of the skin, and beautifying the COMPLEXION.

M

NOT A FEW

Of the worst disorders that afflict mankind arise from the corruption that accumulates in the Blood. Of all the discoveries that have been made to purge it out, none can equal in effect HELMBOLD'S CONCENTRATED EXTRACT OF SARSAPARILLA. It cleanses and renovates the Blood, instills the vigor of health into the system, and purges out the humors which make disease. It stimulates the healthy functions of the body, and expels the disorders that grow and rankle in the Blood. Such a remedy, that could be relied on, has long been sought for, and now, for the first time, the public have one on which they can depend. Our space here does not admit of certificates to show its effects, but the trial of a single bottle will show to the sick that it has virtues surpassing anything they have ever taken.

B

Two tablespoonsful of the Extract of Sarsaparilla, added to a pint of water, is equal to the Lisbon Diet Drink, and one bottle is equal to a gallon of the Syrup of Sarsaparilla, or the decoction as usually made.

The above Extracts are prepared on purely scientific principles—*in Vacuo*—and embody the full strength of the ingredients entering into their composition. A ready and conclusive test will be a comparison of their properties with those set forth in the U. S. Dispensatory.

O

HOW TO USE THE REMEDIES.

In Diseases of the Blood, Humors on the Face, or any and every part of the body, use Extract of Sarsaparilla, applying to Pimples and all external Humors or Eruptions the Improved Rose Wash.

Use the Extract Buchu for all diseases requiring the aid of a diuretic, except those of the Urinary Organs, such as Gonorrhœa and Gleet; in these use the Extract Buchu, and inject with the Improved Rose Wash.

L

☞ THESE EXTRACTS HAVE BEEN ADMITTED TO USE IN THE UNITED STATES ARMY, and also are in very general use in all the STATE HOSPITALS AND PUBLIC INSTITUTIONS throughout the land, as well as in private practice, and are considered as invaluable remedies.

MEDICINE DELIVERED TO ANY ADDRESS.

Direct letters to—

HEMBOLD'S DRUG AND CHEMICAL WAREHOUSE,

594 Broadway, New York, next Metropolitan Hotel,

—OR TO—

HEMBOLD'S MEDICAL DEPOT,

104 South Tenth street, Assembly Buildings, Philadelphia.

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Describe Symptoms in all Communications.

SOLD BY ALL DRUGGISTS EVERYWHERE.

Beware of Counterfeits!

ASK FOR HELMBOLD'S.

TAKE NO OTHER.

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Sole Agents for the Pacific Coast,

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(TO BE CONTINUED.)

H. H. BANCROFT & CO.,

Booksellers and Stationers,

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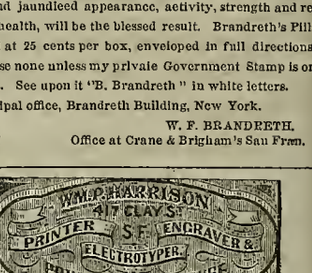
Brandreth's Vegetable Pills.—This medicine, of enduring efficacy, is justly prized as a corrector of all disorders of the stomach and bowels, the common symptoms of which are costiveness, spasms, loss of appetite, sick headache, giddiness, sense of bloating after meals, dizziness of the eyes, drowsiness, and cramping in the stomach and bowels. These symptoms being suffered to remain, a torpid state of the liver supervenes, and all the horrors of dyspepsia are experienced. Every function of the frame is to a certain extent prostrated; but a little perseverance in the use of BRANDRETH'S PILLS will ever restore the system from this state of misery. Two or three doses will convince the afflicted of their salutary influence. The stomach will speedily regain its strength, a healthy action of the liver will soon take place, and instead of listlessness, heat, pain, and jaundiced appearance, activity, strength and renewed health, will be the blessed result. Brandreth's Pills are sold at 25 cents per box, enveloped in full directions. Purchase none unless my private Government Stamp is on the box. See upon it "B. Brandreth" in white letters.

Principal office, Brandreth Building, New York.

W. F. BRANDRETH.

10v2tf Office at Crane & Brigham's San Fran.



IN THE PROBATE COURT, CITY AND COUNTY OF San Francisco, California. In the matter of the Estate of J. W. WREY alias J. H. CHURCHILL, deceased. Notice to Creditors—All persons are hereby notified, who have claims against the said deceased, or this estate, to present the same, with necessary vouchers, to the undersigned, at No. 604 Merchant street, San Francisco, within four months after the first publication of this notice (a summary administration of this estate having been ordered), else the same will be forever barred.

J. A. WOODSON,

Attorney for P. WARNER, Adm'r of said Estate,

604 Merchant street.

San Francisco Aug. 26, 1865. 8v11-4w

COUNTY COURT, CITY AND COUNTY OF SAN FRANcisco.—In the matter of the application of the Palmyra Mill and Mining Company for an order of dissolution.

Notice is hereby given to all persons interested that the Palmyra Mill and Mining Company have this day filed their petition in the County Clerk's office of said City and County, praying for an order of dissolution, and in pursuance of an order of the Hon. Samuel Cowles, this day made, all persons interested are hereby notified to be and appear before the Hon. Samuel Cowles, County Judge of said city and county, at his chambers, in the City Hall, on MONDAY, the 2d day of October, 1865, at 9 o'clock, A. M., of that day, to show cause, if any they have, why the prayers of said petitioners should not be granted.

Witness my hand and seal of said Court, the {L.S.} 30th day of August, 1865.

WM. LOEWY, Clerk,

By WM. HARNEY, Dep. Clerk.

TRY

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Ward's Perfect Fitting Shirts.

These Shirts are too well known to need any comment, both for perfect fit and quality. A large supply always on hand. Also, the largest stock of Gents' Fine Furnishing Goods on the Pacific Coast. Try one of his Shirts, and you will never wear any others.

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Mining and Scientific Press.

A Journal of Useful Arts, Science, and Mining and Mechanical Progress.

DEWEY & CO., PUBLISHERS And Patent Solicitors.

SAN FRANCISCO, SATURDAY, SEPTEMBER 30, 1865.

VOLUME XI. Number 13.

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THE CIRCULATION of the PRESS, already extensive, is rapidly increasing, and substantial men who can profit by widely disseminating information of their business amongst the most intelligent, influential and industrial classes of the Pacific States and Territories will find no more effectual or economical medium for advertising.

DEWEY & CO., Proprietors.

Patent Agency and Job Printing Office, 505 Clay street, San Francisco. July 1 1865

MACHINE SHOP.—Among the smaller machine shops in this city, none are, perhaps, more worthy of notice than that of Mr. George T. Pracy, 109 and 110 Fremont street. This establishment is devoted almost entirely to light wrought iron work, in which department it certainly excels. Mr. P. attends to his work in person, and everything he undertakes will have all the advantages that can be given by his own practiced eye and skillful hand. He takes especial pride in the neatness and perfection of his machinery, of which he has an abundance for his work. Two large and small lathes, and a beautiful planing machine, which Mr. P. calls the best in the city, are driven by a small vertical steam engine, of five inches in diameter and twelve-inch stroke, the whole being finished and cared for in the best manner. Repairing is made a special branch of his business, and in this particular he cannot be easily excelled. Give him a call. Mr. Pracy is particularly conversant with all descriptions of printing machinery, and does the principal part of the repairs upon printing presses called for in this city. He is well known to the fraternity.

THE OVERLAND MAIL is now very regular in its arrivals and beats the steamers badly. The route is said to be in fine running order, and the coaches are making trips with unusual despatch and regularity carrying letters through in 22 days. On Tuesday evening last, fifteen bags, containing 22,000 letters, were received at the San Francisco Post Office, by this route.

OIL FROM BITUMINOUS SHALE.—A Sydney company, in New South Wales, have begun largely the distillation of bituminous shale, discovered in inexhaustible quantities in two different places. The Australian market has been an immense one for kerosene, but they claim now to have coal measures of their own which will meet the full demand.

THE VIRGINIA ENTERPRISE.—D. E. McCarthy has parted with his interest in this journal to J. T. Goodman, who is now the sole proprietor.

A MINERS' CONVENTION.

A project has been started for holding a Pacific Convention of miners. Much good would doubtless result from such an assemblage, especially if it could be made general in its representation, a proper concert of action obtained, and an intelligent interchange of opinion and experience secured from those present. The *Territorial Enterprise* is decidedly in favor of the project, of which it speaks as follows:

There is no branch of industry in the United States suffering more from the want of intelligent and economical management than gold and silver mining. This, we presume, will not be denied. Agriculturalists of every State have their fairs and conventions, where the results of their labors are made known, and every valuable information relating to the pursuit imparted; the wool and wine growers have their associations for the interchange of opinion and the advancement of the interests they represent; merchants combine for mutual protection, and their chambers of commerce legislate for the government of trade; publishers and printers, carpenters and blacksmiths, shoemakers and masons, tailors and barbers, all have their associations: yet the gold and silver miners of the Pacific States and Territories continue to labor without concert, to toil without reward, to invest their money without return. They embark in the business without any practical knowledge of it, and, blind to the lessons of experience, are continually adding to the list of mining bankrupts and shaking confidence in a pursuit which if intelligently followed, would be no more precarious than that of commerce. How may this evil be corrected. May a remedy not be found in the inauguration of some system by which the results of experiments and the suggestions of science may be generally disseminated?—by which the miners of the Pacific States and Territories may be enabled to interchange views, and unite in recommending such measures as may be deemed best calculated to advance the great mineral interests of the nation?

The *Enterprise* is also in favor of establishing a permanent association, with local organizations, having corresponding secretaries to keep each other and the parent association apprised of all experiments or discoveries of importance which may come within their knowledge. The plan adopted by agricultural associations, with a slight fee for membership, is suggested; or any plan in fact, which would tend to create a concert of thought and action among the gold and silver miners of the Pacific States and Territories. These suggestions are certainly worthy the careful consideration of the mining public; and if some such plan could be inaugurated and successfully carried out it could hardly fail of proving of vast importance to the mining interest generally.

One immediate object of the proposed convention should, and doubtless would be, to take the necessary steps to place before the next Congress a truthful and intelligent statement of the present condition of our mines, with the view of enabling that body to act intelligently and wisely in the matter of legislating with reference to them. It is a matter almost beyond doubt that Congress will, at its next session, discuss matters connected with the mines, and adopt some course of legislation either with reference to their final disposition or taxation, or both; and also with reference to the establishment of a Mining Bureau, more or less comprehensive in its character. Hence, it becomes miners to look well to their interests, and see to it, that it shall be no fault of theirs, in the way of neglect, to lay before their representatives the proper information on which to base their action, if any "unfriendly legislation" should be made, or any well-meant, but mistaken, action had, by which unnecessary obstacles should be placed in the way of a proper development and the future working of the mines.

The intelligent miners of California and Nevada listened with much interest, last winter, when it was announced that several distinguished Members of Congress would visit this coast during the summer, for the purpose of collecting such information as should lead to intelligent legislation with reference to our mines, and felt a degree of confidence that great good would result therefrom. So far, however, as we have been able to judge from the public speeches of our late visitors, all of whom have spoken more or less freely upon our mining interests, they have by no means succeeded in acquiring a clear and intelligent idea of the condition, necessities, and legislative wants of our mines. So closely were they besieged by petitioners and pleasure-seekers, during their brief sojourn among us, that very little opportunity was given them to acquire that particular information which was supposed to be the main object of their visit. The fault, therefore, has not been so much the fault of our visitors, as of those whose ill-timed, though perhaps well-meant, officiousness, prevented them from coming in direct contact with those only from whom they could have hoped to have derived the information which they needed. The most of our California politicians, even those who have represented us in the National councils, are profoundly ignorant of the necessities and condition of our mines, and are no more fit to direct legislation in those matters than those who have never seen a mine. It is a matter of great importance that this negative, as well as many other positive facts, should be properly laid before Congress. Hopeless of any aid in that direction from the politicians of our own or the Eastern States, we see no way but for the miners themselves—those personally and pecuniarily interested—to put their shoulders to the wheel, and make themselves heard, and their wants known at Washington. We know of no better way to accomplish the desired end than by the proposed Convention; therefore, we heartily endorse the proposition for a Miners' Convention for the Pacific States and Territories, and earnestly recommend the subject to the attention of the interior presses, whose interests are more particularly connected with the mines.

OIL WELL INVENTION.—The latest thing in the oil regions is a new double tubing process—one tube, as now, holding the sucker rods, the other allowing processes for testing the well, permitting the escape of gas, and relieving any sudden extra flow of gas, oil or water.

DR. WINDSHIP, the man who could lift such great weights, we believe 2,500 pounds, recently died at Roxbury, Mass., after a brief illness.

HOME MADE HOSE.

Among the articles exhibited at the Pavilion during the late Fair of the Mechanics' Institute, those interested, and especially miners and firemen, must have noticed the samples of leather hose exhibited by Capt. M. M. Cook & Son, of 801 Battery street. This firm have been engaged in the manufacture of hose, in this city, for the past four years, during which time they have fully established the fact that hose can be made in this city, and from California leather, of a quality fully equal, if not superior, to any which can be imported from the East. They have manufactured this article for the Navy Yard at Mare Island, and for Steam Fire Engine No. 12, of this city, which is pronounced by both equal to the best in use. It stood a test at the Pavilion last year of 175 pounds pressure, without showing the least signs of weakness, and for which they received the first premium; they also received a silver medal for their exhibition the present year, when it was subjected to a pressure of 170 pounds, the highest point which the guage employed would indicate. Messrs. Cook & Son have also supplied a large amount of hose for the Fire Departments of Portland, Salem and the Dalles, in Oregon, from the Chiefs of each of which they have testimonials of the highest character; also from several hydraulic mining companies in this State. They also manufacture a very superior article of horse collars, saddles, etc. They have just received from the East a complete set of machinery and tools, for the manufacture of leather belting, which they will soon be able to turn out in any quantity, and of any desired dimensions. The goods manufactured by the Messrs. Cook & Son are all from California leather, prepared in the most careful and approved manner. We understand that the evidences of the ability of our mechanics to turn out leather work of almost every description, of a quality fully equal to the best received from the East, has now nearly put a complete stop to importation in that line. This fact affords another pleasing evidence of the march of California in her progress towards wealth and independence.

A WINE SPRING, or *something like it*, is said by the Nye County *News* to be the latest discovery over the mountains. According to that paper, Messrs. Wright and Gray, who have been out on a prospecting tour, on their return brought with them a vial filled with a red fluid, tasting and resembling claret wine. This spring is about 120 miles east of here, and Mr. Wright informs us that the flow is about equal to 100 gallons per day. Perhaps they found a "Corner Grocery," with a good run of custom.

LET a man live as long as he will, the first thirty years of his life will always seem the longest, and the daily routine of after years pass like the rounds of a clock, while the hands on the outside and the movements within mark the passage of time to others, till the weights have run down and the pendulum stands still.

A NEW BUSINESS.—There is at this time an agent of English capitalists traveling through the silver mines of Nevada and buying up rich ores for export. He refuses to invest in claims or mills, but will buy all the good ores he can get. He has already purchased one hundred tons in the Columbus district, near Aurora.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

Copper Mines and Reduction of Copper Ores.

The reduction of copper ores has agitated the minds of many learned men and capitalists in California—the former to bring their knowledge, the latter their capital to a beneficial account. The value of our copper interests is known to but a very few in the community. In looking through the country we find that nearly or quite every county in this State and Nevada has more or less well defined lodes, and it would be superfluous to describe their locations, formations, etc., as this has been done over and again. That the mines and ores are here, and in abundance, is also an established fact; but the great question to be solved, is

WHAT TO DO WITH THE ORE.

I have almost daily opportunities to be shown and to have an assay made of ores from newly discovered mines, and am continually asked what I consider a mine is worth with ten to twelve per cent ore, or in other words, if they are worth anything at all? Those are questions generally not very easily answered, as the value of a mine depends principally on the distance the ore has to be transported to a shipping port, and other local facilities; and until we have in California all the means at command to reduce our own ores, we shall have to be content with shipping abroad. At least this must be the case so long the smelters abroad give us a reasonable price for the ore; but if they should continue for a while longer to depreciate the value of our ores, as they have been doing of late, we shall be compelled to work them here; for it wont pay to ship at prices much reduced from present rates.

Several efforts have been made in California to smelt the low grade ores; but the undertakings have not, as yet, been very profitable for various reasons, which I will hereafter explain. Miners are at present just as much in doubt as to the value of their mines as when they discovered them; everybody wants to find a solid lode of sulphurets, carbonates, or oxyds, and if they do not find at least twenty per cent. ore their mines are considered worthless. I know of many mines which contain well defined and good lodes, averaging from six to twelve per cent., and the ore not worth working; as one of that grade cannot be taken out and transported to Swansea or Boston, so as to leave a profit to the mine. The question very naturally arises: What shall be done with such mines—are they worth anything or not?

I have carefully read the articles published on this subject in your paper, some time ago, and written by a learned Professor. He gave us an elaborate description of copper smelting, by means of charcoal. The notes given by the Professor are of much practical value; but in some points I think he is in error. He says the cheapest mode of extracting the copper from ores is by smelting, and then goes on and gives us all the expenses connected with reduction and refining, and lastly says concentration by water wont pay. He says he has calculated the costs of concentration, and the figures satisfy him that it will not pay. If the Professor had given us the figures we might be better able to judge of the correctness of his calculations. This is the first point in which I differ from the learned gentleman. I am not a Professor or Doctor, I am only a learner, although I believe I have sufficient knowledge to reduce copper ore by smelting as well as by half a dozen other processes; and I know also by practical experience that copper ores here, as well as in other countries, can be concentrated cheaper by water than by fire.

If the Professor has seen what they call the dressing floors in England and Cornwall, or the dressing works in Germany and Australia, he must surely be convinced that it does not cost as much to crush and concentrate a ton of ore, as it does to smelt it; and that, too, where coal is only worth $1 per ton. At least two-thirds of all the ore smelted in England and Germany, is first concentrated by water and then smelted, and I believe that the people in Europe study their business quite as close as they do here, and they have the advantage of a thousand years of experience. But all this wont satisfy our miners; they want smelting works as the first operation, and if I tell them, a hundred times, don't smelt as long as you can concentrate your ore by water, or sell it for from two to three dollars per unit, they won't listen to me; they think they know better, and go on and build their smelting works. I have several times declined to build smelting works when I have been asked to do so, and refused good pay, because I knew it would be too expensive; and when I have recommended concentration by water they would not listen to me, until by dear bought experience they have learned a lesson.

We have now several smelting works in California; ask the proprietors what they have done and what their profits are, and if they are candid, they will tell you they have lost money. Smelting is a very easy work; but it is not so easily accomplished as it is to melt a bar of lead or silver. The operator has not only to get out a certain quantity of metal, but the value of that depends on the quality of the copper, which can be greatly improved by an experienced smelter. I have seen regulus smelted here in California not much over thirty per cent., the ore of which was yellow sulphurets that had been concentrated, at one fourth the cost of smelting, to a twenty-five per cent. ore. Many miners have but little knowledge of what is meant by concentration by fire or water, and to those who are not acquainted with metallurgical processes, I simply say: concentration by water means nothing more or less than to separate the metal from the gangue or matrix, and get the metal as much as possible concentrated with the least possible loss. In England this is chiefly done by hand labor; in Germany it is done by machinery, and this latter method will have to be adopted by our miners as hand labor is high, and power in most of the mines cheap. It would take too much room in your paper to describe the many and very ingenious machines which have of late years been invented and introduced in Germany, by the application of which machines, ore can be concentrated for six or ten cents per cubic foot.

The only effort of the kind made in California, was at the Keystone mine, in Copperopolis, and these works were imperfect in every way. I told the Superintendent then, a year ago, that the first principle of concentration had been overlooked. The ore should be properly classified first, and then he would be able to concentrate or separate by specific gravity. I did not see a single machine there for which I would give one dollar, if I had to use them; but nevertheless, several thousand dollars have been spent to no purpose, and as any one acquainted with such machinery could have foreseen, it did not pay, and I had to hear repeatedly that the Keystone tried concentration and it proved of no account. But I am sure if the Keystone take their eight per cent. ore, concentrate by proper machinery and let the Union mine go on smelting their eight per cent. ore, that at the end of the year the Keystone will be ahead fifty per cent. in profits over the Union.

In conclusion, I have only to say that I consider a mine with a good lode and eight per cent. ore, in a convenient location, a valuable property.

J. Mosheimer,
Eogineer and Metallurgist.

[Written for the Mining and Scientific Press.]

The Mount Diablo Coal Mines.

Editors Mining and Scientific Press:—California not only possesses her mines of untold wealth in the precious metals, which have attracted hither the inhabitants of every clime, and made her name memorable as the great gold-producing field of the world; but the experience of the past five years has also demonstrated that she holds imbedded within her hills, and within a few miles of navigable waters, immense and inexhaustible fields of coal, the production of which has already tended to lessen the importation of of that article to the extent of thousands of tons yearly, and which is daily increasing. For four years the California Steam Navigation Company have used the Mt. Diablo coal; the same may be said of all the ferries and steamers plying on the Bay, as well as nine-tenths of the stationary engines in this city. It is now exclusively employed for making steam at the sugar refineries, distilleries, woolen mills, flour mills, and in all the foundries; it being considered cheaper for such use than any other coal which can be obtained in San Francisco.

There are now in successful operation four mines—the Black Diamond, Eureka, and the Manhattan—which can supply ten thousand tons per month. Of these, the two first named are the most valuable and extensive. The mines are located in the foot hills of Mt. Diablo, and distant about five miles from New York, the embarcadaro, which is situated at the mouth of the San Joaquin river. The Black Diamond mine lies about a mile west of Somerville, and is separated from those of that place by a high intervening hill. The company was incorporated in June, 1861, and has been steadily employed since. For the past four years, Mr. Benjamin Jones has had the management of the works; and the manner in which he has discharged his duty reflects great credit upon him as a skillful miner and competent superintendent. The coal lands owned by this company comprise some 600 acres, all of which is hilly and broken and unfit for cultivation, but affording good pasturage. A survey has already been made for a railroad which is in contemplation, and ere another year rolls round, it is expected that the iron horse will be transporting his hundred tons per load to the landing. The distance from the mine to the depot on the river, is five and two-fifths miles, with a maximum grade of 255 feet, and an average of 144. The entire cost for a good substantial road, is estimated at $85,000. The engineer, in his report, says: "I have examined the coal tunnels and coal, and am satisfied that when a system of transportation is completed, you can calculate upon hauling five hundred tons daily." At present about 125 tons are being mined, which affords direct employment to about one hundred miners and laborers, besides those engaged in hauling to the landing and boating it to San Francisco. Litigation with the California Mining Company, incorporated by Pioche & Bayerque, has tended to impede the speedy completion of the railroad, which is the only thing necessary to make this one of the most valuable and extensive coal mines on the Pacific coast, as the extent of coal lands owned by the company, together with the natural facilities for working the vein will show at a momentary glance. The company have two mines now in successful operation, each working separate veins; one known as the Clark vein, and the other that of the Black Diamond. In order to strike the Black Diamond vein, a tunnel had to be run through sand rock for a distance of 430 feet, when a vein of pure coal four feet thick was reached. The vein dips from south to north at an angle of 36°. In order to expedite the working, two openings were made, one by driving a slope down on the dip of the vein 140 feet before opening the chambers; and the other by continuing the gangway running with the coal, and which has penetrated to the great distance of 2,150 feet—1,720 being run with the coal and mined as the gangway advances.

As very few of the consumers of the product of the hardy collier can form any idea as to the manner in which it is obtained, a description of the working of the vein may not here be out of place. The miner commences by driving a drift, called a "chute," which is from three to four feet wide, and the depth of the vein for a distance of sixteen feet, which is to leave a substantial pillar between the chamber and gangway, to prevent caving: a chamber, or in miner's *parlance*, breast, is then opened, which is about seven yards wide, and is driven parallel with the gangway. A second chute is then continued in a straight line with the first, and driven a distance of ten feet, when the second breast is opened, which runs parallel with the first, and so on, continuing to leave pillars ten feet thick between each, so as to have a uniformity of work. These pillars are easily mined, as the immense weight tends to crush them; and on the abandonment of the mine they are taken out, so that no coal is lost. Heavy timbers have to be used in the gangway, to prevent caving, and posts are required to be set in the breasts every few feet apart to support the superincumbent weight, after removing the coal. Great care is taken in this work, as it is all important that no cave should occur in the breasts after being worked out, which would prevent the free passage of air through them, and allow the accumulation of black or choke damp, which is poisonous to the lungs, and which would soon drive all the workmen from the mine. In order to get the coal from the breasts after being mined, sheets of thin iron three feet wide by about twelve long, are laid in the bottom of the chutes and through the breasts, and the dip being sufficiently steep, the coal, by its own weight, will go to the bottom, when it is then run into the cars, which hold about three-quarters of a ton each, and then drawn out of the tunnel by a horse, three cars at a time. After being run through the screens, and the dust and pea coal separated, it is then ready for market. A wooden track covered with iron is laid in the tunnel for the cars to run upon. Coal is mined by the yard, and the only tools used by the miner, is the drift-pick, and or iron wedge, and sledge-hammer. A cut is commenced, which is done by undermining the bottom coal about three feet under, and not more than six inches high, so as not to chip up any more coal than is necessary, when each end of the coal undermined is then cut loose from the walls of the vein, and the gad driven into the seam, which is about the middle of the vein, and a mass of coal seven feet long and two thick, comes tumbling under the heavy stroke of the hammer. Great caution must be exercised to keep clear of the falling coal. The gad is then driven in between the roof and remaining seam of coal, which is more easily detached than the lower mass. The coal is then broken up in smaller pieces and thrown into the chutes. The miners have to work in a sitting posture, as the ceiling is only about four feet high, being the thickness of the vein.

Two of the great impediments to mining, are water and the accumulation of foul air; the one is obviated by sinking air-shafts from the surface to intercept the vein, and cause drafts of air to pass through all the breasts, removing the foul air, black damp and smoke from the miners' lamps. While it is necessary to have steam engines at many if not all the neighboring mines, to keep them free from water, a labor which costs thousands of dollars during the year, the water from this mine is kept free by one man working a force-pump.

The coal from the Black Diamond vein, is of a bright black color, much resembling the Liverpool coal, and has a much greater density than that of the Clark vein, which is the only one yet worked by the Union. Eureka and Pittsburg. The Manhattan, after the great cost of running a tunnel 1,050 feet through sand-rock, reached the Black Diamond vein, but at a point where it was not of sufficient thickness to justify working. This coal, for household purposes, will, sooner or later, take the place of foreign coals.

The Black Diamond vein is about 300 feet below that known as the Clark vein, which is about three and a half feet in thickness, and dips from south to north at an angle of 32°. Mr. Jones, in opening this mine, drove down a slope so as to intercept the pitch of the vein, and reached the coal in 147 feet, the slope having nearly the same dip as the vein; a gangway was then run north and south of the slope, so as to enable them to take coal from both ways. These tunnels have reached a distance, one 120 and the other 320 feet from the mouth of the slope. The coal is put in cars, run out on the rail track to the slope by man power, then hitched to a heavy rope and drawn to the top by a horse and whim. About forty tons a day are now being taken from this mine, but the facilities are such that, with an increased working force, 250 tons could be mined daily.

If Mt. Diablo has hitherto failed to produce mines rich in precious metals, she has nevertheless established a reputation of having this great coal producing basin of the State, and we hope the day is not far distant when our people will see the folly of importing an article which she has in inexhaustible quantities in her own native hills, and which can be produced at one-half the cost of that imported. By producing a home supply thousands of dollars, sent out of the State to pay for foreign and Eastern coals, will then be saved, and another drain upon our treasury closed. As yet the coal mines have done but little to advance the pecuniary interests of the owners, the price for which it is sold being but little above the cost of production; but to the State, large benefits have accrued. Several towns have sprung into existence, a railroad in course of construction, another in preparation, to say nothing of the direct employment afforded to several hundred men, by which they not only make a comfortable living, but fair wages besides. A large number of teams are required to haul the coal from the mine to the river, where a number of schooners find steady employment at fair profit in taking it to the city, its final point of destination; and all this is the result of the coal discovery in Mt. Diablo, which is not known probably to one half the coal consumers in San Francisco. A. B.

Patent Safety Can.—Messrs. Perkins and House have invented a can that will protect benzine or any other fluid from the danger of explosion. The principle on which this can operates is similar to that invented by Sir Humphrey Davy, and applied to his celebrated safety lamp.

The creation by the President of a Bureau of Pardons, with an able and fair man at its head, has been recommended, and is now under consideration by him.

Mining Summary.

Mining prospects throughout the State are exceedingly prosperous. In Nevada, Plumas, Calaveras and Amador, in particular, the enterprising miner is reaping a rich reward for his labor, and the result goes to show that the yield of the precious metals is nearly as large, in the aggregate, in proportion to the numbers engaged in searching for them, as it was in the palmiest days of California mining. Whatever falling off may be noticed, is more than compensated by the permanence which that branch of industry has now assumed over that which existed in the flush times, when the virgin placers of the Golden State were first attacked. The developments which are now being made in the deep gravel diggings in Nevada county, are no less astonishing and unexpected than the equally recent and wonderful results which have followed the deeper opening of many of the quartz mines in the same county. We append our usual summary:

CALIFORNIA.

NEVADA.—Rumors are current with regard to the sale of the Eureka mine, "The Emperor's," located at Grass Valley, to capitalists of this city. The sum first named was $500,000, asked, with $450,000, offered. The Oriental Mill, at Nevada, with several ledges, belonging to Mr. J. J. Ott, has been sold, through an agent in this city, to A. T. Stewart, the dry-goods millionaire of New York. The price named is $25,000.

New developments in this county are almost daily reported. We hear that the deep shaft of Scadden, Cliff & Co., at Boston Ravine, is producing specimen gold of extraordinary richness. The *National* says that a little blast was put in a few days since, at a depth of 150 feet, from which about $6,000 was taken, with a plenty more in sight for future operations. The same paper says that the proprietors of the Walsh, Shirtleff and Mather ledge, situated on Slate creek, a mile and a half from town, have struck a ledge three feet thick from which they took out in one day $4,000 in clean gold. They are in good spirits, and think that, if the thing continues to pan out in this way, Allison Ranch will have to look out for its laurels.

The company working the Union Hill ledge have struck the lead at a depth of one hundred and twenty feet, where they find it two and a half feet wide. They have already erected extensive machinery for pumping and hoisting. At the depth of forty feet the rock paid $40 per ton.

From fifty tons of rock from the Shamrock mine, located at Forest Springs, a gold brick was taken a few days since valued at $2,500. This claim is owned by working men, and the rock was taken out at a depth of ten feet.

The Nevada *Transcript* says that a ledge is being opened on Cement Hill, which promises well. A tunnel has been run into the hill and what is supposed to be a stringer, has been struck. The owners expect to strike the main ledge in a day or two. The stringer which they now have is eighteen inches thick. The rock is filled with rich looking sulphurets and will pay, it is thought, about one hundred dollars to the ton. The company will have it tested by crushing, as soon as a sufficient quantity can be taken out for that purpose.

The *Transcript* says that much has been done during the past six months towards developing the quartz interest of Eureka township; several ledges have been prospected with very flattering results. Several quartz mills will be erected there in the spring.

Important developments have been made upon the Blue Lead, north of Greenhorn creek. Clay & Co., are putting up a five mill at Hunt's Hill, to work this cement. This is what is known as the famous "Blue Lead."

SHASTA.—The Highland mill, ten stamps, says the *Courier*, has cleaned up a run of sixty-six hours, with the result, as per assay by Messrs. Lewin & Co., of $3,398.42. The company have two hundred and fifty tons of the same kind of rock already out.

PLUMAS.—We learn from the Quincy *Union* that Messrs. Bolinger & Blood's smelting works, in Genesee Valley, are in full blast, and are smelting a large quantity of ore. They will commence shipping merchantable copper in a short time. Messrs. Shelton & Co., have a number of men employed upon their works. They will soon be ready to commence smelting.

Miles & Hollingsworth have purchased the Mount Pleasant water ditch for the sum of $3,000. The Cresent mills are not running at present, owing to repairs being made in the mill. The machinery, engine, etc., for their new mill, was shipped from Marysville some time since. The company will have both mills in running order in a few weeks.

We learn that the Mammoth company, at Jamison, are taking out some very good paying quartz from their ledge.

PLACER.—According to the Placer *Herald*, a renewed interest is beginning to be manifested in Placer county, with reference to mining. The great success attending that branch of industry in Nevada and Amador appears to be the stimulating agent.

On the Green Emigrant ledge, the same that furnished such rich rock last winter, a new discovery was made a few days since, on a different portion of the vein, of quartz spotted with free gold.

A shaft is down on the lead of the Wells company, forty feet, the rock looking well, and several tons sent to mill crushed at Grass Valley, show returns that justify a prosecution of the work.

Capt. Mallett, of Virginia City, Nevada, who has been prospecting on North Ravine, one and a half miles west of Auburn, has struck a vein of quartz two feet in thickness, at the depth of thirty feet, that shows well in *silver sulphurets* and gold. The Captain thinks he has "struck it," and the present showing is certainly encouraging. As he is an old miner he believes in getting into the earth's bowels to demonstrate the value of a lead, and continues work upon his shaft night and day.

AMADOR.—Quartz mining, says the Amador *Ledger*, has assumed that importance in that county which it deserves, and that was long ago predicted. Since last Spring seven new mills have been erected, and a large number of stamps and machinery added to old ones. Over thirty new lodes have been opened up that we have a personal knowledge of. Most of them have been sufficiently tested to prove them good, and several have sold at prices ranging from three to twelve thousand dollars. The sales of developed mines within the past seven months exceed half a million dollars. With but one exception these sales have all been made to California capitalists, and for gold. But the most interesting of all this, is the fact that the greater part of this money has fallen into the hands of men who will use it in developing new mines. Another result is, that under such stimulus, hundreds of miners are now hard at work prospecting, who, during the dry season, heretofore, have been idle, or, at most, only working for grub in placer mines. Now that there is a chance for disposing of quartz lodes that prospect well, every exertion is made to discover them, and with such success that all express astonishment that so many rich mines should have lain for years unnoticed. * * * In several of our mining districts it is almost impossible to get custom work done; what mills there are being used only for crushing from lodes on which they are built. If a good custom-work mill were erected in each of the several mining localities in the county, it would not only greatly facilitate the development of the mines, but would be a most profitable investment to the owners of the mills.

Of copper mining, the *Ledger* says that after having gone down from a fever heat to zero, it is gradually assuming a healthy condition. The Newton, Cosumnes, Oriental, Aroyo Seco and several others have been fully established as paying mines. The Aroyo Seco, better known as the McNeely mine, near Ione City, with one exception, has paid all assessments for sinking shaft and improvements. The returns from ore shipped to Swansea are sufficiently favorable to justify the owners in largely extending their future operations.

CALAVERAS.—According to the *Courier*, Copperopolis, at the present time, presents quite a lively appearance; a large amount of building is going on. The copper teams, some containing sixteen horses, are constantly arriving and departing. The new engine-house on the Keystone claim will soon be completed. It is expected the engine will be in running order by the 10th of October. The smelting works of C. T. Meader are in full blast, and seem to be doing well. The total amount of shipments from the Union mine alone, for the week ending Saturday, Sept. 21, was 807 tons. We find no mention made of the amount shipped by other companies; but the following extract from the Stockton *Independent* shows that the business of shipping ore through that city is rapidly increasing: "The copper trade of Stockton is of such importance that, in addition to what is carried as freight by the regular steamers, the Navigation Company now keep the steamer Helen Hensley and the barges Sacramento and J. Bragdon exclusively employed in the transportation of copper ore."

It is said that the Rawhide Ranch claim, located near Copperopolis, has been sold to a company of capitalists for the sum of $50,000.

WASHOE.

The mining interest in and around Virginia City and Gold Hill appears to be decidedly improving. The scarcity of ore complained of recently by the mill men is not now felt, and, as a consequence, the mills are now more generally at work, and affording an increased employment for labor.

The chief feature of last week was the starting of the Yellow Jacket mill at Empire City, which was attended with considerable ceremony. The construction of this mill was commenced about a year ago, as a private enterprise, by James Morgan, Esq. He subsequently disposed of the work to the Yellow Jacket Company; but continued to superintend the construction. The crushing capacity of the mill is estimated at 100 tons daily. It contains eight batteries, of five stamps each—one-half weighing 1,050 lbs each, and the other half 750. The mill is described as one of very superior construction. Its chief feature is a divided motive power. The crushing machinery is run by water-power, while the amalgamaters are driven by steam. The engine is of the Corliss pattern, and 150 horse-power at its ordinary capacity. Everything went off finely at the start. The machinery has been erected under the supervision of Alex. Stegar, who will continue in charge. The reduction works will be managed by Mr. Neary, while John B. Winters will act as general superintendent of mill and mine. The new shaft of this mine is now down 370 feet, and still progressing. At the depth of 400 feet the new shaft will be connected by a drift with the old workings on the north. About 200 tons of ore are now being raised daily, which amount will soon be increased to 300, giving a large amount of work for custom mills. The affairs of this company are now in a decidedly prosperous condition.

The Gould & Curry croppings are now being worked with much success. The ore is said to be good, and will pay an average of $150 to the ton. Free gold is visible in a large proportion of the rock, beside any amount of blue sulphuret ore. It turns out richer than was anticipated, and it seems strange that more of these croppings were not worked in 1860. It is the intention to work the croppings from where the cave at the surface occurred last winter, for the distance of some 200 yards to the northward. The pay streak will average 20 feet in width, and will extend to the depth of 175 feet, or to where the ledge has been worked underneath. It will probably take a year and a half to work this out. Meanwhile other developments may reasonably be expected at the lower level, where a fine body of excellent ore already exists, the depth of which is unknown, but which will be ascertained and developed by the Bonner shaft which is being sunk on D street. Much of the ore from these croppings will work some $500 to the ton, although the average will not go over $150. The good pay found in these croppings only goes to prove the fact that really good mines will show for themselves at the surface, which if not the case, it does not follow that a ledge will pay by being sunk on.

The Belcher company are at present engaged in running two drifts from their main shaft to their lead; one at the depth of 500 feet. They expect to find rich and extensive deposits of ore in their new levels, also much water, but then they are well fixed for pumping.

A deposit of first-rate ore, about 15 feet in width, has been found in the lower level of the Savage mine. Some splendid ore is also being found in the old North Potosi chimney.

In the fourth level of the Eclipse mine a body of very rich ore has just been struck, the extent of which is unknown; but it promises to hold out well. It was struck in sinking a prospecting shaft.

The drift from the Ophir-Mexican shaft tapped the large body of water in the old shaft of the Ophir, a few days since, upon which the water rose in the shaft first mentioned to the hight of 150 feet, but the large and powerful pump being brought into action, the water was soon reduced to less than a hundred feet, and is probably all out by this time.

Major J. C. Ridge has been appointed manager of the affairs of the Washoe United Consolidated Gold and Silver Mining Company, in place of Col. Wm. S. O'Conner, resigned. Major Ridge is well spoken of by those acquainted with him, and will doubtless do what is best for the interests of the company.

The difficulties so long existing between the Ophir and Burning Moscow companies have at last been settled, but is not yet made public. It is presumed, however, that upon what basis it has been effected, by the Ophir obtaining a controlling interest in the Moscow. This arrangement settles the difficulties, and chokes off the lawsuit between the companies, but does not decide the great "one ledge" theory.

It is said that there is not at present a single claim worked in Palmyra district, and that the town of "Como" is dead, and pretty much deserted. Hopes are entertained by many of a revival at some future day—perhaps when the great Overland Railroad gets across the mountains—who knows what that may not do in the development of what are now worthless claims? The Frankfort claim, situated just north of Palmyra, in Indian Springs district, is in active process of development under the superintendence of J. B. Billiard, with fair prospects of success. This claim is located about half a mile down a ravine from the famous Whitmore ledge.

According to the Nye County *News*, 1,450 ounces of bullion were recently shipped from the Pioneer mill (five stamps) in one week. The *News* promises to publish a weekly report of shipments from this mill, the only one in operation in the district.

The editor of the Monitor *Gazette* has seen the deed of conveyance of the Am. Con. Mining Co. to the American Mining Co. of New York, for the consideration of $10 000. The Superintendent of this last named company has recently arrived, and taken charge of the works.

Work will be started immediately on the shaft of the Morning Star Co., for the purpose of opening another level from which to take out ore before that on the present level is exhausted.

The work of putting in the dam and excavating for the race upon the mill site of the Monitor Consolidated Company, has commenced.

The affairs of the Santa Eulalia Company are assuming shape and comeliness again.

The Buckeye Company have commenced a large working shaft, to be continued down to good paying ore.

The *Gazette* says that the mining prospects of Alpine grow daily brighter and brighter. Paying mines are demonstrated to the satisfaction of the most sceptical, and investigation and attention is being attracted to others not yet open, but presenting all the indications to justify hope and induce the expenditure of capital. Capital is actually coming in and taking hold, and we expect to see one or two new mills taking out bullion from Monitor before the first of January next, and that such a number of claims will be worked and prospected during the winter as to demand several first class mills early next spring. Both our present mills have been running during the week, but we are unable to give the returns of bullion, as they each took Saturday for their clean-up, and as we go to press no return has been made.

HUMBOLDT.

We have before us, in the columns of the Humboldt *Register* and Gold Hill *News*, very full reports of the progress of the mining interest in Humboldt county.

From a correspondent of the *News*, we learn that the work on the Montezuma mine is progressing most energetically and satisfactorily. The vein is improving in width and quality as the workmen go down. The amount of ore is apparently without limit. That which is being taken out is being crushed at Webber's mill. Fifteen bars of bullion were the result of the first crushing of three tons—value not known, but perfectly satisfactory at sight.

The Montana claim is also being energetically worked. The ore from the start was of such a quality that the proprietors determined upon the erection of a mill, which is now completed and running, and known as the Stevenson mill. It is furnished with ten of Varney's pans. The mill has just been started, and although no clean-up had been at the latest dates, the result was entirely satisfactory.

The *Register* says that much reserve is maintained with regard to the working of the De Soto; but infers that everything is perfectly satisfactory to those who have the inside track.

The Manitowoe ledge, so much prospected for, seems at last to be hunted down. Three drifts have been run, at different altitudes, into the mountain; and they have the regular Manitowoc rock in each; and are getting it out in quantity to keep the mill constantly employed.

The American Basin Company are pushing work vigorously. The company has purchased the mill at the upper end of Star Canon, and intends to remodel and put it in good working order. One new feature will be a Turbine wheel, which will be propelled by a fall of nearly two hundred feet of all the water in Star creek. The wheel is to be twelve feet in diameter, which will give an abundance of power for all the machinery.

Work on the Yankee is progressing finely. Messrs. Mathews and Canning are rushing things; assisted by J. B. Allebaugh in the blacksmith shop.

REESE RIVER.—We have numerous "clippings" from the *Reveille*; but our "summary" has already quite filled the fullest space allotted to it; and we must reserve further mention of this district until next week. Our Reese River correspondent "J. M." will soon be at his post again, when we hope to hear more direct from this interesting and important locality.

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, September 23.

60 shs Daney at 40 per share.
40 shs Daney at 38½ per foot, b 5.
20 shs Daney at 38 per share.
8 shs Yellow Jacket at 1403 per foot.
4 shs Yellow Jacket at 1407½ per foot.
3 shs Yellow Jacket at 1410 per foot.
16 shs Crown Point at 1150 per foot.
12 shs Crown Point at 1145 per foot.
4 shs Gould & Curry at 1250 per foot.
4 shs Gould & Curry at 1240 per foot.
8 shs Gould & Curry at 1210 per foot, s 30.
96 shs Ophir at 435 per share.
12 shs Ophir at 434 per foot.
12 shs Ophir at 433 per foot, s 3.
24 shs Ophir at 430 per foot, s 10.
48 shs Ophir at 430 per foot, s 3.
36 shs Ophir at 427½ per foot, s 3.
24 shs Ophir at 425 per foot, s 3.
180 shs Ophir at 400 per foot, s 30.
120 shs Ophir at 420 per foot, s 3.
96 shs Ophir at 422½ per foot.
3 shs Belcher at 895 per foot, s 90.
6 shs Belcher at 890 per foot.
8 shs Overman at 165 per foot.
2 shs Savage at 1100 per foot, s 30.
6 shs Potosi at 405 per foot.
5 shs Real del Monte at 13 per share.
30 shs Sierra Nevada at 21 per share, s 30.
30 shs Sierra Nevada at 22½ per share, b 30.
30 shs Sierra Nevada at 21½ per share.
30 shs Sierra Nevada at 22 per share.
10 shs Sierra Nevada at 22 per share, b 5.
30 shs Sierra Nevada at 22½ per share, b 3.
15 shs Sierra Nevada at 22½ per share.
20 shs Sierra Nevada at 22½ per share, b 30.
50 shs Sierra Nevada at 22 per share, b 20.
20 shs Sierra Nevada at 22 per share, s 30.
25 shs Imperial at 240 per share.
20 shs Imperial at 240 per share, b 3.
25 shs Imperial at 240 per share, s 3.
5 shs Imperial at 239 per share.
5 shs Bullion at 125 per share, b 10.
10 shs Nevada, J. G. at 14 per share.
67 shs Caledonia Tunnel at 7½ per share.
10 shs Burning Moscow at 4½, ass unp.
33 shs Burning Moscow at 5, ass. unp.
10 shs Wide West at 7½ per share
5 shs Lady Bryan at 7½ per share.
1 sh Empire M & M Co. at 330 per share.
Amount of sales.....$ 93,654 00

Monday, September 25.

8 shs Chollar at 415 per foot.
60 shs Chollar at 420 per foot.
3 shs Overman at 175 per foot.
2 shs Overman at 175 per foot, b 10.
2 shs Overman at 173 per foot.
5 shs Overman at 182½ per foot, b 10.
24 shs Ophir at 435 per foot.
86 shs Ophir at 425 per foot, s 3.
84 shs Ophir at 420 per share.
12 shs Ophir at 426 per share, s 30.
12 shs Ophirat 5 per foot, r w.
66 shs Ophir at 420 per foot, s 5.
2 shs avage at 1210 per foot.
4 shs Savage at 1200 per foot, s 30.
9 shs Savage at 1200 per foot.
1 sh Savage at 1215 per foot.
4 shs Savage at 1220 per foot.
1 sh Yellow Jacket at 1390 per foot.
1 sh Yellow Jacket at 1385 per foot, s 5.
4 shs Yellow Jacket at 1395 per foot, r w.
1 sh Yellow Jacket at 1395 per foot.
4 shs Yellow Jacket at 1380 per foot.
8 shs Crown Point at 1150 per share.
20 shs Daney at 35 per foot.
2 shs Hale & Norcross at 520 per foot.
2 shs Hale & Norcross at 530 per foot.
2 shs Hale & Norcross at 535 per foot.
4 shs Hale & Norcross at 540 per foot.
4 shs Hale & Norcross at 540 per foot, b 3.
2 shs Hale & Norcross at 545 per foot.
6 shs Hale & Norcross at 550 per foot.
4 shs Hale & Norcross at 550 per foot, s 3.
2 shs Hale & Norcross at 552½ per foot.
4 shs Potosi at 405 per foot.
6 shs Belcher at 890 per foot.
3 shs Belcher at 895 per foot.
4 shs Gould & Curry at 1230 per foot.
8 shs Gould & Curry at 1220 per foot.
100 shs Sierra Nevada at 22½ per share.
40 shs Sierra Nevada at 22½ per share.
30 shs Sierra Nevada at 21 per share, s 30.
10 shs Sierra Nevada at 22 per share.
60 shs Wide West at 7½ per share.
202 shs Imperial at 240 per share.
10 shs Imperial at 239 per share, s 3.
15 shs Imperial at 223½ per share, s 10.
3 shs Confidence at 122 per share.
1 sh Cal Steam Nav Co at 77½ per cent.

AFTERNOON SESSION.

1 sh Yellow Jacket at 1400 per foot.
1 sh Yellow Jacket at 1400 per foot, s 3.
6 shs Yellow Jacket at 1405 per foot.
2 shs Yellow Jacket at 1405 per foot, r w.
3 shs Yellow Jacket at 1400 per foot, s 5.
2 shs Yellow Jacket at 1409 per foot, s 6.
10 shs Yellow Jacket at 1400 per foot, s 7.
48 shs Ophir at 415 per foot.
12 shs Ophir at 416 per foot, s 5.
5 shs Overman at 185 per foot, b 20.
2 shs Overman at 182 per foot.
10 shs Overman at 180 per foot, s 10.
5 shs Overman at 185 per share, b 30.
20 shs Daney at 35 per foot.
20 shs Daney at 36 per foot.
1 sh Savage at 1220 per foot.
16 shs Hale & Norcross at 550 per foot.
2 shs Hale & Norcross at 547½ per foot.
8 shs Hale & Norcross at 550 per foot, b 3.
10 shs Lady Bryan at 8 per share.
10 shs Lady Bryan at 7¾ per share.
10 shs Exchequer at 27 per share.
20 shs Exchequer at 27½ per share.
5 shs Imperial at 240 per share.
10 shs Imperial at 240 per share.
10 shs Imperial at 240 per share, b 3.
10 shs Sierra Nevada at 21 per share, s 30.
50 shs Sierra Nevada at 22 per share.
20 shs Sierra Nevada at 22 per share, s 30.
10 shs Nevada, J. G., at 19 per share.
Amount of sales.....$172,387 00

Tuesday, September 26.

12 shs Yellow Jacket at 1390 per foot.
1 sh Yellow Jacket at 1405 per foot.
1 sh Yellow Jacket at 1409 per foot.
5 shs Yellow Jacket at 1410 per foot.
4 shs Yellow Jacket at 1400 per foot, s 30.
1 sh Yellow Jacket at 1412½ per foot.
2 shs Yellow Jacket at 1415 per foot.
3 shs Yellow Jacket at 1405 per foot, s 30.
4 shs Yellow Jacket at 1420 per foot.
1 sh Yellow Jacket at 1415 per foot, s 3.
1 sh Yellow Jacket at 1425 per foot, b 3.
20 shs Daney at 32 per foot.
96 shs Daney at 33 per foot.
40 shs Daney at 34 per foot.
100 shs Daney at 33 per foot.
20 shs Daney at 33 per foot, s 3.
3 shs Belcher at 900 per foot.
10 shs Chollar at 422½ per foot.
4 shs Chollar at 430 per foot.
21 shs Hale & Norcross at 570 per foot.
2 shs Hale & Norcross at 585 per foot.
2 shs Hale & Norcross at 575 per foot.
2 shs Hale & Norcross at 590 per foot.
2 shs Hale & Norcross at 605 per foot.
12 shs Hale & Norcross at 600 per foot.
1 sh Hale & Norcross at 600 per foot.
15 shs Potosi at 410 per foot.
7 shs Potosi at 415 per foot.
10 shs Potosi at 415 per foot, s 3.
4 shs Crown Point at 1150 per foot.
16 shs Exchequer at 27 per share.
30 shs Exchequer at 26 per share.
10 shs Nevada (J. G.) at 20 per share, r w.
11 shs Nevada, J. G., at 20 per share.
35 shs Lady Bryan at 8 per share.
20 shs Lady Bryan at 8½ per share.
5 shs Bullion at 122½ per share.
28 shs Bullion at 113 per share, s 3.
66 shs Sierra Nevada at 21½ per share.
3 shs Imperial at 240 per share.
22 shs Imperial at 239 per share.
5 shs Imperial at 239 per share, r w.
5 shs Imperial at 236 per share, s 30.
2 shs Imperial at 230¾ per share, s 30.
5 shs Imperial at 238 per share, s 5.
125 shs Fireman's Fund at 125 per cent.
1 sh Cal S Nav Co at 77½ per cent.

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board

SAN FRANCISCO, SATURDAY MORNING, September 30th, 1865.

The competition among money lenders, growing out of the accumulation of capital, has induced the leading banking institution of this city to announce that the rate of discount hereafter, on first-class business paper or satisfactory collaterals, will be *one per cent. per month*. This decline in the rates of interest has been anticipated for some time past, and will exert a stimulating influence upon many interests in this city and throughout the interior. It is not only an evidence of the faith capitalists have in the permaneucy and safety of all our interests, but shows that there is abundance of means at hand for the prosecution of every legitimate enterprise, and may be accepted as a sure barbinger of our future prosperity.

Receipts of treasure from domestic sources, since the date of our last referenee, exceeded one million dollars, making an aggregate of some four millions during the current month.

A good demand for bullion is likely to prevail in a day or two, but the rate has thus far shown little or no variation from last week, and sales of gold bars were made yesterday at 850@860 for average grades. Silver bars may be quoted at par to ½ ℔ cent. premium for round lots.

Legal Tender Notes have been steadily maintained within a range of 73⅞@74¼c, closing at 73¾c. bid. Our latest telegraphic advices from New York, quote gold at about 144.

A much better feeling has pervaded in the Sbare Market this week, and nearly all prominent stocks were actively dealt in. Recent developments in portions of the Comstoek lode are regarded with much favor, and the fears entertained by some as to its poverty at a certain depth, seem to have given place to rather different views, and there are tbose who now think that a degree of wealth will soon be disclosed not calculated upon at any former period. With regard to tbe condition and future prospects of a claim largely dealt in last week, and which is still an object of interest to many dealers, it is stated that influential parties have been enlisted to give an undue coloring to reports from the mine, and some stockholders who have acted upon information received through these channels, now find that they were misled, and have been induced to part with their stock at a sacrifice. On the other hand, it is asserted that there were good reasons for the panic of last week, and that the recent advance would not have taken placo but for the favorable disclosures made within the past few days. The monster shaft to be sunk to a depth of 1,200 feet by the Alpha, Imperial, Empire and Baeon Companies, will involve an expenditure of some $2,500 per month, by each eompany, to be completed within 12 months, at an nggregate cost of about $120,000.

Alpha is in better favor, and sales were made at $2,250, closing at $2,250 nzked. This company has been reincorporated into 5,570 shares, of $100 each—20 sbares per foot of 278½ feet. Advices from tbe mine continne favorable, and in running fifty feet south from the inclue, at a depth of about 540 feet, a body of fine ore, 25 feet in width, has been disclosed. Receipts of bullion this month will, it is said, exceed $90,000, and the only liabilities of the company now existing, are the monthly installmeuts due for the recent purchase of their mill, upon which $32,000 has already been paid.

Yellow Jaeket has fluctuated but little, and 144 feet were dealt in, within the range of $1,410@1,345, closing at $1,345. During the week ending September 18 1,307 tons of oro were extracted from he mine, and 1,141 tons were reduced, yielding an aggregate of $37 121.70, or an average of $32.53 per ton. Siuking has begun upon th west pay strata, from the 360 feet level, and a mass of good ore h been met with thus far. The east body also looks well at a depth 440 feet. The Morgan Mill is said to be in fine condition, and rnnnin up to its full capacity.

Savage was sold to the extent of 30 feet, at $1,200@1,225, closin at $1,240 asked. The lower drift running east continues in good or and the west body above is said to hold out well.

Gould & Curry fell from $1,250 to $1,200, rose to $1,285, then sol at $1,275, and closes at $1,250 nsked. The product of this mine i fully up to the average of the past few months, nnd receipts of bullio for September will amount to about $175,000.

Crown Point is less active, and small sales were mnde at $1,170@ 1,120, closing at $1,130. A large body of water in the 300-feet leve interferes, temporarily, with the progress of the drift at this depth Beleher has been steady at $890@875.

Hale & Norcross has attraeted considerable attention, and 260 fee changed hands, opening nt $520, ndvancing to $680, dropping to $66 rising to $860, aud closing yesterday at $750. In sinking from th 535 feet level, at a depth of nearly 65 feet, good ore has bee met with since Snnday last, and the present charaeter of this deposi would seem to warrant its continuance at a still greater depth. I drifting soutb and west from the incline, at a depth of 700 feet, a de posit of pay ore has also been found this week, and it is supposed tha that this body is a portion of the same just found above.

Ophir has been active and nearly 200 feet were sold, declining fro $435 to $370, and ebanging hands yesterday at $340@320, s. 30. We ar informed that a final settlement has been made with the Burning Mos cow company, but the details are withheld at present. It is believed bowever, that about two-thirds of the stoek of the latter has been sol to the Ophir Company. In this case the Moseow Compnny will prob ably cease to exist, being disincorporated or merged into the Ophir.

Chollar is in better request and large sales were made, steadily ad vancing from $420 to $485, dropping to $455, rallying to $500, an selling yesterday at $512½@500. At these rates 347 feet changec hands. Potosi has shared in tbis improvement, advancing from $40 to 460, then selling at $495 and closing nt $472½. Between tbe 3d an 4th galleries of this mine a considerable body of ore has been found recently, and near the top of the old works the east and west drift are said to look promising. On the east wall, near the north lius an upon a level with "stope B," some ore has also been met with.

Empire Mill has been in much less favor, declining from $330 pe share to $250, buyer 30, and selling yesterday at $220@225. Th lower drift is not yet in ore, and to this unfavorable feature the present depression of the stock is mainly attributable. There will be no divi dend for the month of September. Overman improved slightly, rising from $165 to $185, and closing at about $175.

Imperial has been subjected to a continuation of the "bear" pres sure inangurated last week, but has been tolerably well maintained The aggregate *sales* (?) amounted to some 1,100 shares, within a range of $230@240, closing nt $232. The different bodies of ore in tbe 6th level continue to improve. On the south side of the main drift, a width of 40 feet has been "breasted out," and the ore limit not yet reacbed. Work has progressed south 25 feet, and the ore at that point is said to be better than at the drift line. Throughout the drift north (a distance of 20 feet) fair ore is also obtained. Receipts of bullion since the 10th inst., including cash surplus then on hand, amount to some $65,000, and for the entire month will not vary materially from our estimate of last week. The usual dividend is anticipated for the month of September.

Bullion has been dealt in at $125@126. Daney fell from $40 to $35 and closed at $35. Sierra Nevada fell from $22½ to $17, and sold yesterday at $17. Exchequer was sold at 27½@25, closing at $26 and Lady Bryan was dealt in at $7½@8½.

The recorded sales of Stoeks, since Saturday last inclnsive, amounted in the aggregate to $1,200,049,

AFTERNOON SESSION.

4 shs Crown Point at 1170 per foot.
4 shs Chollar at 440 per foot.
4 shs Chollar at 450 per foot.
8 shs Chollar at 460 per foot.
28 shs Chollar at 460 per foot, s 3.
52 shs Chollar at 470 per foot.
4 shs Chollar at 470 per foot, s 3.
8 shs Chollar at 475 per foot.
16 shs Chollar at 480 per foot.
20 shs Chollar at 485 per foot, r w
20 shs Daney at 35 per foot.
132 shs Daney at 34 per foot.
40 shs Daney at 34 per foot, s 3.
2 shs Potosi at 450 per foot.
2 shs Potosi at 455 per foot.
22 shs Potosi at 460 per foot.
2 shs Hale & Norcross at 650 per foot
2 shs Hale & Norcross at 650 per foot.
6 shs Hale & Norcross at 660 per foot.
2 shs Hale & Norcross at 660 per foot, s 3.
2 shs Hale & Norcross at 665 per foot.
2 shs Hale & Norcross at 670 per foot.
2 shs Hale & Norcross at 675 per foot.
2 shs Hale & Norcross at 677½ per foot.
2 shs Hale & Norcross at 680 per foot.
2 shs Hale & Norcross at 680 per foot, s 3.
1 sh Yellow Jacket at 1420 per foot, s 3.
60 shs Segregated Belcher at 20 per ft, s 30.
32 shs Exchequer at 25 per share.
20 shs Lady Bryan at 8½ per share.
55 shs Imperial at 240 per share.
5 shs Imperial at 237 per share, r w.
5 shs Imperial at 236½ per share.
3 shs Imperial at 237 per share, b 5.
10 shs Bullion at 128 per share, s 10
1 sh Cal. Steam Nav. Co. at 74½ per ct.
1 sh Cal. Steam Nav. Co. at 75 per cent.
$1,800 Legal Tender Notes at 74.
Amount of sales.....$194,320 00

Wednesday, September 27.

60 shs Daney at 35 per foot.
40 shs Daney at 36 per foot.
20 shs Daney at 37 per foot, b 10.
40 shs Daney at 36½ per share.
144 shs Ophir at 405 per foot, r w.
36 shs Ophir at 405 per foot.
12 shs Ophir at 405 per foot, b 3.
36 shs Ophir at 402½ per foot.
5 shs Ophir at 4 0 per foot.
48 shs Ophir at 402 per foot, r w.
12 shs Chollar at 480 per foot.
10 shs Chollar at 475 per foot.
16 shs Chollar at 470 per foot.
12 shs Chollar at 470 per foot, b 3.
8 shs Chollar at 465 per foot.
4 shs Chollar at 460 per foot, r w.
4 shs Chollar at 455 per foot.
1 sh Yellow Jacket at 1412½ per foot.
1 sh Yellow Jacket at 1410 per foot.
2 shs Yellow Jacket at 1405 per foot.
1 sh Yellow Jacket at 1402½ per foot.
1 sh Yellow Jacket at 1405 per foot, r w.
5 shs Yellow Jacket at 1400 per foot.
1 sh Yellow Jacket at 1400 per foot, r w.
68 shs Hale & Norcross at 660 per foot.
3 shs Belcher at 890 per foot, r w.
1 sh Overman at 165 per foot.
5 shs Overman at 175 per foot, s 10.
10 shs Sierra Nevada at 20½ per share.
40 shs Sierra Nevada at 19 per share
100 shs Sierra Nevada at 18½ per share.
10 shs Sierra Nevada at 18½ per share, b 3.
40 shs Sierra Nevada at 19 per sbare, b 3.
20 shs Sierra Nevada at 19½ per share, b 3.
4 shs Confidence at 122 per share.
3 shs Imperial at 236 per share.
10 shs Imperial at 235 per share.
25 shs Imperial at 234 per share.
5 shs Imperial at 234 per share, r w.
5 shs Imperial at 233½ per share, s 3.
5 shs Imperial at 234 per share, b 3.
10 shs Imperial at 233 per share, s 3.
5 shs Imperial at 233 per shre, r w.
10 shs Bullion at 125 per share, s 10.
100 shs Exchequer at 26 per share, s 3.
70 shs Exchequer at 26 per share.
6 shs Exchequer, at 26½ per share
49 shs Golden Age at 5 per share.
5 shs Nevada, J. O., at 21 per share.
100 shs Spring Valley W Co at 51 per cent.
$ 2,000 Legal Tender Notes at 74 per cent.
$ 5,000 Legal Tender Notes at 74½ per cent.
$ 5,000 Legal Tender Notes at 74, s 10.

AFTERNOON SESSION.

2 shs Overman at 172½ per foot.
10 shs Overman at 170 per foot.
4 shs Chollar at 470 per foot.
44 shs Chollar at 475 per foot.
60 shs Chollar at 480 per foot.
4 shs Chollar at 480 per foot, s 3.
28 shs Chollar at 480 per foot, b 3.
24 shs Ophir at 405 per share.
72 shs Ophir at 402½ per share.
12 shs Ophir at 402 per foot.
24 shs Ophir at 400 per share, s 3.
18 shs Potosi at 460 per foot.
10 shs Hale & Noroross at 660 per foot.
6 shs Hale & Norcross at 670 per foot.
2 shs Hale & Norcross at 675 per foot.
6 shs Hale & Xarcross at 680 per foot.
2 shs Hale & Norcross at 685 per foot.
2 shs Hale & Norcross at 690 per foot.
2 shs Hale & Norcross at 695 per foot.
12 shs Hale & Norcross at 700 per foot.
10 shs Hale & Norcross at 705 per foot.
2 shs Hale & Norcross at 695 per foot, s 10.
4 shs Hale & Norcross at 700 per foot, s 3.
4 shs Crown Point at 1165 per foot.
1 sh Yellow Jacket at 1375 per foot.
260 shs Exchequer at 26 per share.
20 shs Exchequer at 26 per share, s 3.
3 shs Imperial at 233 per share, r w.
5 shs Imperial at 233 per share, s 5.
5 shs Imperial at 233½ per share.
45 shs Imperial at 233 per share.
5 shs Imperial at 235 per share, r w.
5 shs Imperial at 234 per share, s 10.
1 sh Empire M & M Co. at 300 per share.
1 sh Empire M & M Co. at 300 per share.
1 sh Empire M & M Co. at 290 per share.
5 shs State Telegraph at 30 per cent.
4 shs Cal. Steam Nav. Co. at 77½ per cent.
$15,000 Legal Tender Notes at 74½ p ct, s 3.
Amount of sales.....$183,632 00

Thursday, September 28.

8 shs Gould & Curry at 1275 per foot.
12 shs Gould & Curry at 1235 per foot.
72 shs Chollar at 500 per foot.
8 shs Chollar at 510 per foot.
40 shs Chollar at 495 per foot.
32 shs Chollar at 490 per foot.
22 shs Potosi at 470 per foot.
6 shs Potosi at 470 per foot, r w.
16 shs Potosi at 470 per foot, b 10.
10 shs Potosi at 470 per foot, b 5.
2 shs Potosi at 468 per foot.
22 shs Potosi at 465 per foot.
2 shs Potosi at 467 per foot.
10 shs Potosi at 465 per foot, s 3.
23 shs Hale & Norcross at 785 per foot.
26 shs Hale & Norcross at 800 per foot.
6 shs Hale & Norcross at 800 per foot, s 3.
6 shs Hale & Norcross at 805 per foot.
2 shs Hale & Norcross a 800 per foot, s 5.
2 shs Hale & Norcross at 800 per foot, b 5.
2 shs Hale & Norcross at 795 per foot.
4 shs Overman at 170 per foot, r w.
2 shs Overman at 170 per foot.
5 shs Overman at 175 per foot, s 10.
5 shs Overman at 175 per share.
29 shs Daney at 35 per foot.
20 shs Alpha, O H, at 2250 per foot.
108 shs Ophir at 400 per foot, s 3.
12 shs Ophir at 400 per foot.
12 shs Ophir at 395 per foot, r w.
12 shs Ophir at 390 per foot.
12 shs Ophir at 390 per foot, r w.
12 shs Ophir at 395 per foot.
30 shs Imperial at 237½ per share.
60 shs Imperial at 236½ per share.
15 shs Imperial at 236½ per share, r w.
15 shs Imperial at 236 per share, r w.
10 shs Imperial at 235 per share, s 10.
10 shs Imperial at 236 per share, s 10.
10 shs Imperial at 236 per share.
10 shs Imperial at 235 per share, s 10.
50 shs Imperial at 234 per share, s 10.
5 shs Imperial at 234 per share, r w.
5 shs Imperial at 233½ per share.
25 shs Imperial at 233 per share.
5 shs Imperial at 233 per share, r w.
5 shs Imperial at 234 per share.
25 shs Sierra Nevada at 18 per share.
10 shs Nevada (J. G.) at 20 per share.
10 shs Nevada, J. G., at 19 per share.
8 shs Confidence at 120 per share.
5 shs Bullion at 125 per share, s 10.
7 shs Empire M & M Co. at 280 per share.
6 shs Empire M. & M. Co. at 275 per share
3 shs Empire M & M Co. at 270 per sh, b 10.
4 shs Empire M. & M. Co. at 275 pr sh, b 10.
2 shs Empire M & M Co. at 270 per share.
2 shs Empire Mill & Mining Co. at 265.
1 sh Empire M & M Co. at 265 per sh b 10.
5 shs Empire M & M Co at 260 per share.

AFTERNOON SESSION.

20 shs Daney at 35 per foot, s 30.
44 shs Chollar at 480 per foot, s 30.
40 shs Chollar at 490 per foot.
4 shs Chollar at 490 per foot, b 3.
2 shs Potosi at 470 per foot, b 5.
16 shs Potosi at 470 per foot, b 3.
18 shs Potosi at 470 per foot.
2 shs Potosi at 470 per foot, r w.
48 shs Ophir at 375 per foot.
12 shs Ophir at 370 per foot.
4 shs Hale & Norcross at 800 per foot.
8 shs Hale & Norcross at 805 per foot.
2 shs Hale & Norcross at 810 per foot.
10 shs Hale & Norcross at 750 per foot, s 30.
2 shs Hale & Norcross at 815 per foot.
20 shs Hale & Norcross at 820 per foot.
4 shs Hale & Norcross at 825 per foot.
2 shs Hale & Norcross at 820 per foot, r w.
2 shs Overman at 175 per foot.
3 shs Yellow Jacket at 1385 per foot, s 3.
1 sh Yellow Jacket at 1395 per foot, b 30.
16 shs Exchequer at 26 per share.
15 shs Empire M & M Co. at 250 per share.
3 shs Empire M & M Co. at 255 per share.
5 shs Empire M & M Co. at 255 per sh, b 3.
1 sh Empire M & M Co. at 250 per sh, s 30.
5 shs Empire M & M Co. at 255 per sh, b 30.
1 sh Empire M & M Co. at 260 p. sh, b 30.
20 shs Sierra Nevada at 17½ per share.
21 shs Sierra Nevada at 17 per share, s 3.
15 shs Imperial at 234½ per share, r w.
10 shs Imperial at 235 per share, s 10.
10 shs Imperial at 235 per share. r w.
10 shs Imperial at 234 per share, s 10.
5 shs Imperial at 233 per share, s 10.
3 shs Confidence at 120 per share.
3 shs Cal. Steam Nav. Co. at 78 p ct.
Amount of sales.....$238,410 00

Friday, September 29.

10 shs Cal S Nav Co at 75 per cent, s 33.
1 sh Cal S Nav Co at 76 per cent.
10 shs Spring Valley W W at 50½ per cent.
17 sh Empire M & M Co. at 240@215 per sh.
21 shs Empire M & M Co. at 320@222 per sh.
3 shs Empire M & M Co, 325 per sh, b 30.
96 shs Ophir at 405@395 per foot.
60 shs Ophir at 340 per foot, s 30.
120 shs Ophir at 315@320 per foot, s 30.
28 shs Hale & Norcross at 86 @840 per sh.
38 shs Hale & Norcross at 835@800 per sh.
512 shs Bullion at 506@512½ per share.
100 shs Chollar at 507½@505 per foot.
40 shs Chollar at 500 per foot, s 30.
40 shs Imperial at 234@233 per share.
192 shs Potosi at 480@495 per foot.
40 shs Potosi at 487@490 per foot, b 10.
34 shs Potosi at 480@485 per foot.
9 shs Yellow Jacket at 1380@1370 per foot.
16 shs Yellow Jacket at 1365@1345 per foot.
28 shs Crown Point at 1125@1120 per foot.
17 shs Overman at 175@177½ per share.
140 shs Daney at 36@35 per foot.
10 shs Justis at 19 per share.
20 shs Bullion, at 128@126 per share.
3 shs Belcher at 890 per foot
190 shs Sierra Nevada at 17 per share.
200 shs Fireman's Fund at 130 per sbare.
$10,000 Legal Tender Notes at 73¾ per cent.

AFTERNOON SESSION.

20 shs N. American, Ex Sam, at 23@24.
5 shs Cal S Nav Co at 75 per cent, s 30.
24 shs Ophir at 340 per foot, s 30.
60 shs Daney at 36 per foot.
124 shs Chollar at 495@500 per foot.
24 shs Crown Point at 1125@1130 per foot.
9 shs Belcher at 890@875 per share.
32shs Belcher at 800 per foot, s 90.
5 shs Yellow Jacket at 1345 per foot.
27 shs Empire M & M Co at 222@225.
15 shs Overman at 178@175 per share.
110 shs Hale & Norcross at 800@750 per foot.
40 shs Potosi at 470@472½ per foot.
30 shs Imperial at 232½@232 per share.
6 shs Bullion at 125 per share.
Amount of sales.....$321,640 00

MING SHAREHOLDERS' DIRECTORY.

t of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Co[mp]rising the Names of Companies, District or County Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time Payment of Dividends.

COMPILED FOR EVERY ISSUE.

dvertised in the Mining and Scientific Press and all other San Francisco Journals*.

NAME OF LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
[A]lo, Lander co., 50c		Oct 7	Oct 23*
[A]na Copper, Arizona, 10c		Sept 23	Oct 6
[A]rtos, Chihuahua, Mex., $1		Sept 30	Oct 12
[B]a Vista, Lower Cal., 30c		Oct 14	Oct 24*
[B]k Ledge, Lander co., $2		Oct 7	Oct 24*
[B]k Ledge, Lander co., 50c		Oct 7	Oct 27*
[B]n M. & M. Co., $10		Payable May 10	
[B]ner, Baldwin & Abernethy		Dividend of $17, June 3	
[B]on, El Dorado co., 50c		Sept 18	Sept 30
[B]as, Marin co., 5c		Sept 16	Oct 2*
[B]er Hill, Eldorado co., $1		Oct 7	Oct 19
[B]ling Moscow, $15		Oct 6	Oct 18
[B]reye, Lyon co., Nev., $3		Oct 7	Oct 23
[B]on, $16		Levied Sept 7	
[B] California, San Antonio, L. C.		Annual Meeting Oct 2	
[C]edence,		Dividend, $100 per foot May 1	
[C]ar, Storey co., Nev., $8½		Sept 18	Oct 2
[C]alera, Chihuahua, Mex., $2		Sept 26	Oct 7
[C]n Point, Storey co., Nev., $25		Oct 4	Oct 20
[C]ofa, Santa Clara co., 15c		Sept 22	Oct 6
[C]ouena, Sonora, Mex., $5		Oct 14	Oct 28
[C]z, Lander co., Nev., $2		Oct 18	Oct 31
[C]onena, Sonora, Mex		Annual Meeting Oct 9	
[D] Padre, Sonora, Mex., $2		Oct 4	Oct 17
[D]mond, Del Norte co., $2		Oct 19	Nov 7
[E]ard Everett, Lander co., 25c		Oct 14	Oct 28*
[E]la, Guerrera, Mex., 25c		Sept 30	Oct 7*
[E]spora, La Paz, 50c		Sept 19	Sept 30
[E]lre M. & M. Co		Dividend Payable Aug 10	
[E]chequer, Storey co., Nev., $2		Oct 2	Oct 17
[E]piste, Sonora, Mex., $2		Oct 4	Oct 17
[E]xchequer		Annual Meeting Oct 16	
[E]lfborn Petroleum		Annual Meeting Oct 11	
[F]lda, Reese River, Nev., $10		Oct 18	Nov 4
[G]eorge Washington, Alpine co., $1		Oct 21	Nov 6*
[G]ood Hope, Alpine co., 50c		Oct 14	Oct 28*
[G]ilt Western Tunnel		Annual Meeting Oct 5*	
[G]ue, Alpine co., $2		Sept 23	Oct 12*
[G]olden Rule, Dividend		Payable Aug 20	
[G]old & Curry		Dividend, $40 Aug 5	
[G]uadalupe, Chihuahua, Mex., $25		Oct 3	Oct 18
[G]uadalupe		Special Meeting Oct 2	
[H]ost Miner, Lander co., 50c		Oct 28	Nov 13*
[H]ecom, Copper, Del Norte co., 15c		Oct 7	Oct 23*
[H]ale & Norcross, Storey co., Nev., $25		Oct 9	Oct 23
[I]mperial		Dividend Payable Sept 9	
[I]sella		Annual Meeting Oct 2	
[J]ane, Lander co., 50c		Oct 7	Oct 23*
[J]ett, Storey co., $1		Oct 4	Oct 21*
[J]ohnson, Brown's Valley		Dividend $10 per share Aug 23	
[J]i		Annual Meeting Oct 16	
[J]ohnine, Coso District, $1		Oct 25	Nov 9
[K]obin, Sierra co., $25		Sept 16	Oct 2*
[K]entucky, Calaveras co., $1		Oct 10	Oct 30
[L]avorita, Sonora, Mex., 50c		Sept 30	Oct 14*
[L]ond, Arizona Territory, 25c		Sept 16	Oct 2*
[L]y of the Lake, Arizona Territory 25c		Sept 16	Oct 2*
[L]y Franklin, Alpine co., 5c		Sept 16	Oct 6*
[L]lanca, Sonora, Mex., 2 50		Oct 12	Oct 26
[L]y Bryan, Storey co., Nev., $2 50		Sept 20	Oct 2
[L]e		Special Meeting Sept 30	
[L]on, Siskiyon co., 50c		Oct 20	Nov 1
[L]averita, Sonora, Mex., 50c		Sept. 30	Oct. 14*
[M]ammoth, Alpine co., $1		Oct 21	Nov 6*
[M]agle, Lander co., Nev., $3		Sept 23	Oct 5
[M]ining Star, Alpine co., Nev. $1		Sept 21	Sept 30
[M]ining Star, Alpine co., $1		Sept 22	Oct 10
[N]ew American Tin, Mexico, $1		Oct 14	Nov 1*
[N]ogarell, Tuolumne co., $1		Oct 23	Nov 6
[N]ew American, Virginia, Nev., $10		Levied Aug 14	
[N]uestra Senora de Guadalupe, Jalisco, $6		Oct 16	Oct 28
[N]uestra Senora de Guadalupe, Durango, 75c		Oct 21	Nov 6
[O]ord Beta		Sept 23	Oct 11*
[O]rlo, Lander co., 50c		Oct 21	Nov 6*
[O]ld Colony Lander co., $6		Oct 14	Oct 28*
[O]lr, Storey co., Nev., $6 33½		Oct 3	Oct 18
[P]aro, Lander co., 10c		Oct 21	Nov 4*
[P]ioneer, Virginia, Nev. $5		Sept 30	Oct 14*
[P]ost, Storey co., Nev., $25		Sept 18	Oct 2
[P]aluma M. & M. Co., Dividend of 5 ₱ cent		Aug 9	
[P]ragon, Humboldt co., 30c		Oct 4	Oct 16
[S]outhern Light, Lander co., 50c		Oct 28	Nov 15*
[S]impson, Alpine co., 25c		Oct 14	Oct 28*
[S]outhern Light		Sept 9	Caullon*
[S]egregated Belcher, Storey co., $2		Oct 7	Oct 23*
[S]anta Cruz Petroleum, Santa Cruz, 30c		Sept 23	Oct 7*
[S]tage,		Dividend, of $75 May 5	
[S]antiago		Dividend May 17	
[S]chon A. Douglas, Lander co., Nev. $5		Sept 18	Oct 3
[S]ierra Nevada, Storey co., Nev., $7.50		Oct 7	Oct 21
[S]ierra Nevada, Storey co., $7.50		Oct 7	Oct 21
[S]eshone, Lander co., Nev., $2		Oct 9	Oct 23
[T]arus, Lander co., 50c		Sept 30	Oct 14*
[T]riple Mountain, Calaveras co., 50c		Sept 23	Oct 12*
[T]unfo		Special Meeting Oct 6	
[T]rinidad & San Jose, Copala, Mex., $10		Oct 6	Oct 20
[U]nited States, 25c		Oct 16	Oct 28*
[U]tican, Lander co., 50c		Sept 16	Sept 30*
[U]tipi, Arizona, $1		Oct 14	Oct 30*
[U]te West, Alpine co., $1		Oct 14	Oct 30*
[U]nion Semite, Humboldt co., Nev., $1.25		Oct 21	Nov 6*
[U]nkee Blade, Lander co., 30c		Oct 7	Oct 27*
[Y]ellow Jacket,		Dividend of $100 May	

*Those marked with an asterisk (*) are advertised in this Journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Burning Moscow	Sept 5	15 00
Bullion	Sept 8	16 00
Crown Point	Sept 2	25 00
Donjez	Sept 21	2 00
Exchequer	Aug 20	2 00
Globe	Aug 17	1 00
Hale & Norcross	Sept 8	25 00
Jewett	Sept 6	1 00
Ophir	Sept 5	100 00
Peck	Sept 13	1 00
Rogers	Sept 12	5 00
Siegel	Sept 8	50
Sierra Nevada	Sept 17	7 50
Segregated Belcher	Sept 9	2 00
Schiller	Aug 23	1 00
United States	Sept 15	25

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale
Alpha	Sept 27	Gold Hill
American Flat Nevada	Sept 28	Virginia
Central Hawkeye	Oct 13	Gold Hill
Chrystal Peak Consol	Sept 30	Virginia
Combined Effort	Oct 20	Gold Hill
Eastern Crown Point	Sept 9	Virginia
Globe	Sept 15	Virginia
Hamilton	Sept 12	Virginia
Imperial Consolidated	Oct 7	Gold Hill
Napoleon Consolidated	Oct 16	Virginia
Nevada	Sept 25	Virginia
North Comstock	Oct 7	Virginia
North American	Oct 20	Virginia
Orleans Flat	Oct 26	Virginia
Sierra	Oct 16	Virginia
Union	Sept 28	Virginia

San Francisco Stock and Exchange Board.

SAN FRANCISCO, September 24, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ —	$ 74⅛
Gov. Legal Tender Notes	73⅞	74
State Bonds, 7 ₱ cent	80	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	70	..
San Francisco Bonds, 1858, 0 ₱ cent	65	..
Sacramento City Bonds, 0 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	60	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	77½
Butte County Bonds, 10 ₱ cent	..	80
California Navigation Co	76	76
State Telegraph Stock	75	..
San Francisco Gas Co	99	..
Sacramento Gas Co	..	75
Spring Valley Water Co	50	50½
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	..	..
Central Railroad Co	..	..
North Beach and Mission	104½	..
MINING STOCKS.		
Ophir	$ 340	$ 350
Gould & Curry	....	1290
Empire M. & M. Co	....	....
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	1225	1225
Chollar	500	505
Potosi	480	485
Hale & Norcross	790	800
White & Murphy	....	....
Sierra Nevada	17	17
Daney	35	36
Burning Moscow	..	..
Lady Bryan	....	....
Sacramento & Meredith	....	....
Burnside	....	....
Town	....	....
El Dorado	....	....
North American	....	....
Baltimore American	....	....
Yellow Jacket	1340	1345
Overman	175	180
Cedar Hill Tunnel	....	....
Wide West	7	8
Crown Point	1125	1130
Antelope	....	....
Emeralda	1	5
Ætna	....	....
Real del Monte	....	15
Silver Hill	....	....
Utah	....	....
Justis	....	....
Josephine	....	....
Mina Perla	....	....
Napoleon Copper Co	....	....
Melones and Stanislaus	....	....
Sheba	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H	125	127
Buckeye	....	....
Dick Sides	....	....
Imperial	233	234
Alpha	2200	2250
Bajazett	..	....

ARNOLD'S DESULPHURIZING PROCESS.—A correspondent of the Humboldt *Register* says that Mr. Olds, agent for Arnold's Decomposing Desulphurizing and Disintegratiog Process for working argentiferous, auriferous, arsenical and Tellurical ores, is experimenting with some of the Humboldt rock. This process is conducted substaptially as follows: The rock is heated to a red heat, then submerged in a chemical solution, wherein is contained the great secret. This softens the hardest kind of rock so that it can be crushed between the fingers; and it is claimed by the inventor that it also separates all the base metals from the precious, and greatly facilitates the process of amalgamation. He is now operatiog on a half ton of DeSoto ore, which he is workiog at the American Basin Company's mill. This process is entirely new. Mr. Olds is selling the right to use it, also the process of preparing the chemical solution, which he says costs but a trifle.

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	65@	75
do pickled ₱ lb	50@	60
do Oregon	40@	50
do New York, ₱ lb	40@	50
Cheese, ₱ lb	25@	30
Honey, ₱ lb	40@	50
Eggs, ₱ doz	55@	60
Lard, ₱ lb	30@	35
Hams and Bacon, ₱ lb	27½@	30
Cranberries, ₱ gal	75@	
Potatoes, sweet, ₱ lb	6@	8
do Irish, ₱ lb	2@	4
Tomatoes, ₱ lb	3@	5
Onions, ₱ lb	6@	—
Apples, No. 1, ₱ lb	3@	6
Pears, table ₱ lb	3@	—
Plums, dried, ₱ lb	10@	15
Peaches, dried, ₱ lb	10@	15
Grapes, ₱ lb	3@	10
Oranges, ₱ 100	2 50@	3 00
Lemons, ₱ 100	5 00@	6 00
Chickens, apiece	75@	1 12

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	0 25 @	6 75
Do Superfine	5 75 @	6 50
Corn Meal, ₱ 100 lb	@	4 00
Wheat, ₱ 100 lb	1 75 @	1 95
Oats, choice, ₱ 100 lb	1 40 @	1 60
Barley, ₱ 100 lb	1 00 @	1 70
Beans, ₱ lb	3 @	4
Potatoes	1 00 @	1 15
Hay, ₱ ton	10 00 @	15 00
Live Oak Wood, ₱ cord	8 00 @	10 00
Beef, on foot, ₱ lb	6 @	8
Beef, extra, dressed, ₱ lb	12½ @	20
Sheep, on foot	1 00 @	2 00
Hogs, on foot, ₱ lb	10 @	12
Hogs, dressed, ₱ lb	15 @	16

Groceries, Etc.

Sugar, crushed, ₱ lb	16 @	17
Do China	10 @	12½
Coffee, Costa Rica, ₱ lb	27 @	28
Do Rio	26 @	27
Tea, Japan, ₱ lb	85 @	95
Do Green	70 @	90
Hawaiian Rice, ₱ lb	@	10
China do	8 @	10
Coal Oil, ₱ gal	1 60 @	1 75
Candles, ₱ lb	23 @	25
Ranch Butter, ₱ lb	55 @	65
Isthmus do	35 @	42
Cheese, California, ₱ lb	20 @	26
Eggs, ₱ doz	60 @	65
Lard, ₱ lb	27½ @	30
Ham and Bacon, ₱ lb	27½ @	30
Shoulders	20 @	22

San Francisco Metal Market.

PRICES FOR INVOICES.

Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

SAN FRANCISCO, Aug. 18, 1865.

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1½c ₱ lb; Sheet, polished, 3c ₱ lb, common, 1½@1¾c ₱ lb; Plate 1¾c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2½c ₱ lb.

Scotch and English Pig ₱ ton	35 @38
American Pig ₱ ton	35 @36
Refined Bar, bad assortment, ₱ lb	2½@—
Refined Bar, good assortment, ₱ lb	3¼@—
Boiler No. 1 to 4	4 @ 4¼
Plate No. 5 to 9	4½@—
Sheet No. 10 to 13	4 @—
Sheet No. 14 to 20	5 @—
Sheet No. 24 to 27	5½@—

COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb

Sheathing ₱ lb	30 @32
Sheathing, Old	25 @35
Sheathing, Yell	30 @32
Sheathing, Old Yell	12 @12
Bolts	—@—
Composition Nails	30 @32

TIN PLATES.—Duty: 2½c ₱ lb.

Plates, Charcoal, IX ₱ box	10 @12
Plates, I C Charcoal	9 @10½
Roofing Plates	9 @ 10
Banca Tin Slabs, ₱ lb	41 @42½

STEEL.—English Cast Steel, ₱ lb 12½@16

QUICKSILVER.—Per lb 65

For export 55 @—

ZINC.—Sheets ₱ lb 9½@10

LEAD.—Pig ₱ lb 7 @ 8

Sheet	10 @12
Pipe	10 @12
Bar	9½@10

MINING AND SCIENTIFIC PRESS

PATENT AGENCY.

For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 4th, 1861, and March 3d, 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be witheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. It is expected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and Inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues. If the application is rejected we examine thoroughly the investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications filed in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, the equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, U.S.A. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first instalment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 years and 6 mos	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every application for a patent, for seventeen years	15
On every caveat	10
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On every appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, No. 505 Clay street, corner of Sansome, San Francisco.

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose surest course is to employ their business with the active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

POSTPONEMENTS.—We would again call the attention of Secretaries to a certain point of the mining law, too commonly overlooked, viz: The requirement that all postponements must be added previous to the expiration of the regular publication of assessment or sale notices.

Mechanical.

THE FOUNDRIES AT SACRAMENTO.

The Union Iron Works of Williams, Heilbron & Co, situated on Front street, between N and O streets, are briskly employed on jobbing and repair work. Under the liberal management of its enterprising proprietors, and the competent foremanship of Homer F. Root, recently of San Francisco, the establishment is substantially advancing in business and popularity. We are pleased to note this well-deserved success.

At the Sacramento Iron Works of Goss & Lombard, is building for the Savage Company, Virginia City, one of the largest and finest steam engines ever ordered for mining purposes in this or any other portion of the world. This engine is accompanied with a powerful pump and hoisting gear. It is one of Corliss' patent 26-inch cylinder, and 6-ft. stroke; shaft, 18 feet ameter, weighs 18 tons; mortised gear for running pump, measures 10 feet in diameter, is 16 inch face, and weighs 7¾ tons; pinion wheel, 16-inch face, 4-inch pitch, and 38 inches diameter. The immense iron bed plate, cast in two pieces, weighing 13 tons, and the ornamental columns, 17 ft. high, supporting the beam, give the spectator an idea of the ponderous proportions of the magnificent structure. The total weight of the engine, aside from the pump and gearing, will amount to over 70 tons. The pump is 14 inches in diameter, with 7 feet stroke. The drum for hoisting is constructed for flat wire rope. The work on this machinery appears most excellent, and we understand is being done by time.

There is also building at these works: one 18-inch cylinder engine, 36-inch stroke, Corliss' patent, for a Reese River company; two ditto 14-inch cylinder, and 30-inch stroke, for Atlantic and Pacific, and New York and Ione mining companies, Reese River; one slide valve engine, 16-inch cylinder and 36-inch stroke, with hoisting gear to work by link motion, for the Heywood & Chamberlin mine, Sutter Creek, Amador county; six settlers, 7 feet in diameter, constructed with sheet-iron rim 16 inches high; twelve pans, 4 feet in diameter, to be finished with wooden rims 2 feet high, for the Atlantic and Pacific Co.; one 12-inch engine, with hoisting gear, for the Empire Co., Grass Valley; another engine, 12-inch cylinder, 24-inch stroke, with pump and hoisting gear, for Burdett Co., Grass Valley. A large amount of repairing is done at this establishment for the Central Pacific R. R. The works were established in 1853. Mr. Horace Adams is the popular foreman of these works.

Mechanical business in Sacramento seems to be highly prosperous at this time. Besides the works above mentioned, are several boiler shops and shutter manufacturing shops in full rattle.

To be Tested Practically.—We understand that Mr. Bruckner, of this city, has sold the rotary desulphurizing furnace, which has been on exhibition at the Pavilion, to a New York company, who will put it up at their mines in the Blind Spring district, Esmeralda. We also notice that another furnace of similar description is being put up on a mine at Reese River. A rotary desulphurising furnace, or rather set of furnaces, is also about going into operation at some point in Reese River or the Humboldt country, this last being the Crosby & Thompson patent, from which much is expected, and which is said to be already in successful operation at Pike's Peak. We are pleased to note these practical efforts at improving upon the old reverberatory hearths, and shall be pleased to note the success which may attend any or all such experiments. That they will succeed we have but little doubt; and in so doing they cannot fail to effect a vast saving in the expensive and tedious process heretofore employed.

Russia will eventually become one of the largest purchasers of American machinery of all kinds. Skilled labor and good machinery will advance the development of her resources, and there will be a steadily increasing demand for years to come for mechanical and agricultural implements.

A Novelty in Mechanics.—The Chicago *Tribune* notices at the Vulcan Iron Works, in that city, a new form of steam engine, the invention of Mr. E. Danforth, which appears to be one of the greatest novelties in mechanics of the present age. The great feature is the substitution of a "generator," of the form of an oblate spheroid, for the flue boiler hitherto in use, by which it is claimed five important advantages are gained over the old system, viz: positive security against explosion, a decrease of at least one-half in expense, a saving of one-quarter in fuel, and great economy in space occupied and in freight. As far as it is possible to judge from a single visit to it when at work, Mr. Danforth's engine does accomplish these desirable ends. The "generator" spoken of is thirty inches in diameter and three inches in thickness. When it is brought to a high heat water is jetted into it and instantly converted into steam which passes into use as in any engine employing the ordinary flue boiler. The water does not touch the iron of the generator, but, scattered into spray as it passes through the sprinkler-like end of the pump at once becomes steam in an intensely heated chamber. This steam being super-heated gives a power three times as great as that produced from the ordinary boiler. The engine now at work is a horizontal one, with a cylinder of but five inches diameter, with eight-inch stroke, but with the super-heated steam employed, is calculated to have fifteen horse power. The guage indicated 100 pounds pressure, but the engine has been run at 160 pounds. As the generator is capable of bearing a strain of 3,000 pounds, there is absolutely no danger of explosion. The entire weight of engine and generator is but one and a half tons, while an engine with flue boiler, having the same power, would weigh three and a half tons. This power is employed in driving one of Foreman's "iron clad burr stone" mills, which was grinding corn at the rate of twenty bushels per hour.

Novel Application of Iron.—Mr. James Atkins, of the well-known firm of R. W. Winfield & Co., of Birmingham, has, it appears, succeeded in effecting a very important improvement in the manufacture of articles which are, or might be, made of brass, copper, or other similar metals. It is well known that many ornamental and other articles produced in brass, copper, and such like metals, are first made with hollow interiors, which are then filled with metallic substances, such as lead, in order that the articles may possess considerable strength and stability. Of this character are some of the ornamental parts of iron bedsteads, counterbalance weights for gaseliers, statuettes, and so forth; the ordinary mode of operation being to pour molten lead into the interior of the article; the new method, however, dispenses with the use of lead, and substitutes for it molten iron. Now, as brass, copper, and other analogous metals, melt at a much lower temperature than iron, it is evident that they must first undergo some very peculiar treatment, in order that when the molten iron is introduced within articles made of those or kindred substances, they may not be melted and destroyed; and this is said to be fully guarded against and effectually provided for. The invention has been patented, and we hope shortly to be able to afford our readers full particulars of the process and mode of operation.—*London Mining Journal.*

An Oregon Invention.—The *Oregonian* says: "Mr. J. M. Howe, who is now in New York, has succeeded in getting a patent for his invention for the manufacture of wheels for vehicles, boring felloes and sawing them to the correct level, tenoning the spokes at both ends, sawing them to the required length, and planing the felloes simultaneously at three sides, and for planing and moulding other articles or work."

Strikes.—The lamentable results of strikes are forcibly shown by the fact that the loss sustained by workmen in Staffordshire alone during the recent conflict between the masters and their hands is estimated at five hundred thousand pounds.

A Natural Ice House.—In the town of Greenwood, Maine, is a natural ice-house, where ice keeps the year round. The cave is pitch dark, compelling persons who visit it to carry torches. It is only about two years since this cool retreat was discovered.

Lake Superior mines are quite profitable. The Quincy mine gave, in June, one hundred and thirty-one tons, and the Franklin mine eighty-five tons.

A French gentleman claims to have discovered that wines may be much improved by gently warming them, and that "sick" wines may be cured by the same process.

The important fact has been ascertained that there are four hundred thousand feathers on the wing of a silk worm moth.

Extracting Hydro-Carbon Oils — Important Improvement.

In manufacturing oil from coal or other bituminous substances by destructive distillation, it is of the utmost importance that the distillation should take place with a low and even temperature, barely sufficient to develop the oleaginous vapors, while a too high degree of heat converts a portion of the oily vapors into permanent gases, thus diminishing and deteriorating the product. The rotary retort has been found most suitable for the purpose, making distillation practicable with a less degree of heat than must be used with a stationary retort. But in using the revolving retort it will be found that the residuum of the bitumen or material used leaves a coating on the interior sides of the retort, which coating gradually increases with every charge, and being a poor conductor of heat, makes a higher exterior temperature necessary with every charge, while a portion of the oily matter remains on the coating, and is there burned and converted into permanent gases. In order to get the best and largest product from the material used, it will, therefore, be found necessary to clean the retort for every charge, which in the ordinary way can be done only when the retort is cooled down, so as to permit a person to enter it. Mr. C. S. Lundborg, of Sodertelje, Sweden, proposes thus to prevent or greatly diminish the cooling alluded to, so that a great number of charges may be run without any cleaning or stopping the work, while at the same time a much larger yield and a better quality of oil is obtained, and the heat is distributed more equally in the retort. He obtains the desired result of keeping down the coating and distributing the heat by introducing a certain quantity of pieces of iron or hard stones with the coal or bitumen into the retort. The loose iron or stone will by its specific gravity follow the bottom of the retort (which may be ribbed in the interior surface) during its revolutions, rapidly acquiring the temperature of the surrounding surface exposed to the fire, and being mixed with the coal or bitumen, which by the rolling action of the pieces of iron or hard stones is crushed into small fragments, the heat is diffused more equally through the mass, and the adherence of the coating before alluded to almost prevented. The yield of oil by this process is much increased, and its quality greatly improved. He uses pieces of iron or granite stones, weighing from one to five pounds each, and puts generally about two hundred weight to a charge of 2,000 pounds of coal. The quantity of loose iron or stones used, or the weight of the separate pieces, may, however, be more or less, according to the nature of the coal or bituminous material used, and he does not see any reason why pieces of some other metal than iron, or any other kind of hard and heavy substances, may not suit equally well.

How Rain is Produced.—An elevation of temperature is followed by an evaporation of water into the air, but the process is comparatively slow, and it is a long time before the air is fully saturated. So, also when the air is saturated, a depression of temperature is followed by the condensation of a portion of the vapor into rain, but the mass of the atmosphere tempers the abruptness of the transition. The vapor condenses first into vesicles, or minute hollow bubbles of water, so light that they float in the atmosphere; and when these bubbles break and the drops of rain fall, they are wafted down so slowly through the resisting medium that the "soft falling snow and the diffusive rain" have become fit emblems of the beneficence of God as they give the strongest evidence of his wisdom and skill. Moreover, the glorious clouds which add so much beauty to the landscape, and typify, in their virgin whiteness, the purity of heaven, are collections of these vesicles of water floating in the upper atmosphere which surrounds it. The heated air from the tropics, heavily charged with moisture, is continually moving toward the colder regions, both of the north and of the south; and as the aerial current thus becomes chilled the vapor is slowly condensed, and the water showered down in fertilizing rains on the land. Thus it is that those beautiful provisions which we see in the rain all depend on the presence of the air, and result from a careful adjustment of the properties of aqueous vapor to the exact density of our atmosphere.—*Cassell's Illustrated Family Paper.*

Brazil.—The discovery of kerosene in the Province of Jujny, Brazil, promises to be a great thing for that country. Already kerosene lamps are replacing the old oil lamps, and one Lenardo Bella has applied for a patent for working the petroleum springs.

The British aristocrats are on a strike They have determined next season to abstain from attending any of the Queen's drawing rooms or levees held by proxy, and not to visit them until they are received by the sovereign in person.

New York Millionaires.—Wm. B. Astor is sixty-five years old, worth fifty millions, a round face, pleasant, quiet-mannered gentleman, owns two thousand dwellings, and is a lenient landlord. A. T. Stewart is sixty, thin, nervous, dignified, worth thirty millions, and liberal in cases of benevolence that appeal to his sympathies. Commodore Vanderbilt is white-haired, red-cheeked, worth forty millions, drives a fast horse, keeps a boat, controls two fast railroads, companies with fast men, and gives away his money very lavishly. August Belmont owns twenty millions, coarse, stout, and very German. George Opdyke, five millions, fifty, but looks younger, an agreeable gentleman. James Gordon Bennett, five millions, seventy-three years old, dignified in manner, broad Scotch accent, benevolent to the poor.

The last of the Government loan has been taken. The whole amount authorized by Congress—six hundred million dollars—has now, to a very great extent, passed into the hands of the American people and no further loans will be put upon the market, at least not until the next session of Congress. If any evidence were required to show the confidence entertained by the people in the stability of the Union, the fact that they have become its creditors for so large an amount would be indubitable proof. Although the Union was in debt to the extent of three billion dollars, the people, when invited to subscribe for the six hundred million loan, promptly advanced the amount, with unfaltering confidence.

Russian Gold Mines.—The Russian Government has lately quit the working of its gold mines in the Ural mountains, and has arranged for them to be worked by private enterprise. The results of this change have been very remarkable. The quantity of metal extracted is now increased ten fold. Large districts which had been abandoned as not worth the cost of working are now working at a large profit. The adventurers have also made considerable sums by granting working rights to other persons. The experience of Russia should have much weight in determining the question now being agitated for the sale of our own mines.

Colorado Knocks for Admission.—The people of Colorado Territory have formed a State constitution. It was adopted by the convention on the 12th of August, and was submitted to a vote of the people on the 5th instant. Whether they have affirmed or rejected it we do not know, but at all events in a few months Colorado will doubtless knock for admission into the Union.

The Panama Steam Fleet.—A late number of the Panama *Star* says: We have thirty-three first-class steamships, most of them quite new, grossing nearly sixty-five thousand tons, and all kept constantly running to and from the Isthmus, and paying better dividends than any other lines in the world; and yet we find writers abroad stating that the Panama Railroad has brought no trade to the Isthmus.

Over 600 sea-going vessels belonging to citizens of the United States, have been sold to subjects of Great Britian during the war. Men of other countries have also bought American ships in large numbers, and it is estimated that a thousand vessels have been transferred in all.

Dreadful.—At Oneida, New York, a farmer who was using a mowing machine suddenly came upon his little daughter, who was asleep in the grass, and before he could stop the horses, the horrid scythes cut the little thing's legs off.

A lump of pure gold, weighing six pounds, was picked up a few weeks since by a poor boy who was fishing on a creek near New Virginia, a small village in Clark county, Iowa. The finder was offered $1,500 for the treasure, which he refused. He refused to point out the exact locality where it was found.

A Stockton Patent.—The grain-sowing machine taken to San Francisco yesterday on the Cornelia, is a Stockton invention, patented by Ingalls and contrived by W. Root of this city. It works to perfection, and sows about fifty acres of grain per day. In working it is attached to a wagon loaded with grain, from which it is fed.—*Independent.*

The possibility of tin being found on the north shore of Lake Superior is very great, as the formation is said to be exactly that of the tin region of Cornwall, England. For that matter, there is the same possibility of the discovery of tin in the silverlead region between Houghton and Marquette, the rocks being highly favorable for its occurrence.

The West Virginians are jubilating over the first discovery of desulphurated coal in that region, the long time desideratum for their furnaces. It is found in an eight feet vein, near Bridgeport, on the Ohio.

Mining and Scientific Press.

W. B. EWER, ... Senior Editor.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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American and Foreign Patents.—Letters Patent for inventors can be secured in the United States and foreign countries through the Mining and Scientific Press Patent Agency. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the Mining and Scientific Press, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the credit system.

San Francisco:
Saturday Morning, Sept. 30, 1865.

THE PETROLEUM INTEREST.

Matters at the Union Mattole well, Humboldt county, though moving somewhat slow, are nevertheless going on quite satisfactorily to the company. This company has now demonstrated, beyond the possibility of a doubt, that we have a paying, pumping oil well at Mattole. What has been done has proved to the satisfaction of all concerned that the company's well, whenever the necessary facilities for transportation can be made available, can be made to pay a profit of fully $50 per day, over all expenses; and that there is a ready market in this city for all the oil that can be produced. It is also a very generally conceded probability, among those who are acquainted with such operations, that the well now being worked will drain but a very limited tract of ground; and that consequently a large number of wells may be sunk to a profit, at intervals throughout the entire extent of the claim. This advantage will probably hold good with regard to nearly all the different claims in that region, wherever petroleum may be found in pumping quantities. The reports from the progressive wells are still highly favorable. An article will be found in another column, giving some farther details of several local operations now in progress in the vicinity of the Union Mattole. Intelligence of important developments at the Paragon well are looked for by the return of the Del Norte.

PETROLEUM AT THE EAST.

Petroleum matters at the East appear to be moving along very quietly. Many of the wells which were among the earliest opened are diminishing in their flow, and some have altogether ceased to yield oil. Such a result, only, could be reasonably expected. Petroleum is not like water, constantly renewing its reservoirs by vaporization and subsequent rains. The process of the formation of oil may possibly be, and probably is still going on; but by such imperceptible degrees as not to be appreciable. The supply is obtained from subterranean reservoirs, of limited extent, and from the seepage from such rocks, as in long periods of time have become saturated with the oleaginous liquid, which has filled their pores and crevices. Spouting wells are fed mainly from reservoirs, the oil being forced to the surface by the pressure of gas; when that pressure is removed, as it soon will be by exhaustion, the wells cease to flow; but such wells, by proper management, may generally be made profitable by pumping, for a still longer period.

SPOUTING WELLS IN CALIFORNIA.

Spouting wells will probably be rare in California, if found at all. The greater disturbance of the oil deposits here, has afforded a comparatively free vent for the escape of the gas. If found at all, they will be met with under horizontal strata, or where the strata forms an anticlinal axis, with but slight inclination. If they are ever found in Humboldt county, it will be at some point in or north of the Eel river valley. It seems a wise provision of Providence, that whatever was stored up in the early ages of the earth, for the future use of man, was so disposed as to just suit his necessities. The precious metals would lose their value as such, should they be found in as great abundance as lead, copper or iron; on the contrary the industry of mankind would be almost paralyzed should the yield of the last named metals be materially curtailed; so of coal. These necessities are consequently so placed, and so combined, that their rapid exhaustion or waste is a matter not within the reach of even possibility. If petroleum was found in large quantities near the surface, or if it were all gathered in large reservoirs at moderate depth, it would soon become exhausted, and to a large extent wasted; because the supply cannot, like water so situated, be renewed. Hence, we may rely upon the assurance that Infinite Wisdom has so produced and placed this now indispensible agent to physical progress, that future generations *cannot be despoiled* of that which must be as indispensable to those who come after us, as for ourselves. The researches and observations of scientists, within the past four or five years, have rendered it a matter beyond a doubt that many hundreds of feet in depth of rocks have been completely saturated with oil, and that this class of rocks underlie the greater part of the habitable earth. The oil must be extracted from these rocks at a cost of labor and money which will teach mankind to rightly value it, prevent its waste, and under circumstances which will utterly preclude its complete exhaustion.

The falling off of the yield at certain points at the East is abundantly compensated by fresh discoveries in new localities. Late explorations have proved the existence of oil in great abundance in Kentucky, all along the foot-hills of the Alleghany and Cumberland mountains. In Ohio also new and important discoveries are constantly being made. Two flowing wells have recently been struck at Rome, in that State. A fine well of lubricating oil has been struck about thirty-eight miles from Cleveland, in Lorain county. Wells are being sunk within two miles of the heart of that city. Discoveries are also constantly being made in other Western States.

NO DANGER OF GLUTTING THE MARKET.

Notwithstanding the apparently illimitable extent in which it is found, searchers for oil may rest assured that they cater for a market which cannot be glutted. The world will consume, at a fair price, all the petroleum which can be produced. Europe increased her consumption from 10,000,000 gallons in 1862, to over 20,000,000 in 1864. The exports from January 1st, to July 1st, of the present year were about 14,000,000 gallons, showing a large increase. Europe will buy 50,000,000 in 1866, if it can be furnished at a reasonable rate.

THE PRICE OF OIL.

It is a most encouraging fact that the price of oil at the East, is relatively higher now than it was a year ago. In other words oil has not depreciated relatively with the premium on gold; for while gold stands $1.15 per cent. lower than a year ago, oil has only fallen sixty per cent. Petroleum has not only failed to follow the downward tendency to as great an extent as other commodities; but in spite of the most depressing influences, its relative value, is fully fifty per cent. higher than most other articles of trade, and the market is constantly improving. This firmness in the face of increased supply is maintained by the consciousness that the ever-increasing uses to which it is applied, and the increasing demands for it in new quarters, effectually precludes the possibility of a glutted market at anything like reasonable prices.

Wealth of Great Britain.—The present wealth of the British Isles, is set down at fifty thousand millions ($50,000,000,000) dollars.

MATTOLE PETROLEUM COMPANY.

The Mattole Petroleum Company, located in the Mattole Valley, Humboldt county, of which H. C. Howard, of San Francisco, is President, and George McNeir, Superintendent, is situated immediately between the Parsons & Henderson claim, on Joel's Flat, on the northwest, and the Union Mattole company on the southeast. This company commenced boring on the first of July, and have passed through a hard strata of sand-stone rock to the depth of 135 feet, at which point, meeting with a strata of soft shale and oil, it was deemed judicious to tube the well, and thus avoid the possibility of accident from caving.

Immediately adjoining the ground of the Mattole Petroleum company, the same owners have two other valuable claims, upon which work will soon be commenced, viz: The Howard & Martin, and the Lyon companies—the latter adjoining on its southern boundary the claim of Messrs. Knowles & Brown, who have already in their well a fine show of oil. On the Parson & Henderson claim, on Joel's Flat, a large body of oil is at hand, but those gentlemen have determined to continue sinking until a flowing well shall have been reached.

The various grounds referred to are all situated in immediate and close proximity, one to the other, and comprise the choice oil lands in Mattole district. A fine pump, calculated for 300 feet of depth, manufactured by David Stoddart, of Beale street, for the Mattole Petroleum company, will go up on the next steamer.

It speaks well for the great increase of the northern trade that the steamer Del Norte refused to receive freight as early as ten A. M. of the day of her sailing—thus greatly disappointing some parties who were desirous of getting their machinery through to their claims in the oil district.

Wild Bees.—The woods of California seem destined to be soon filled with large swarms of the honey bee. There is no part of the world where this insect seems to flourish as it does here. We hear of great numbers of "bee trees" being found in almost every part of the State. The woods of Nevada and Klamath counties, appear to be particularly favored in this respect. With regard to the latter the Klamath *News* says that within the past three months, more than twenty "bee trees" have been discovered within a mile of Orleans Bar, some of which yielded a large amount of honey. It is safe to estimate the number of colonies of wild bees in Klamath county by the hundred, all of which have come from two hives imported from Pennsylvania, in 1857, by T. R. Thomson.

The Comanche.—This monitor, which it seems was accepted from the contractors before it was finished, is at present at the dry dock, at Mare Island, having been completed at the cost of the Government. She is now ready for service. During the short time she was afloat her bottom became overgrown with a thick growth of weeds and shells. To prevent this in future she is being coated with a preparation that destroys both animal and vegetable matter.

A Singular Cave.—In one of the numerous limestone hills which are found about ten miles from Austin, Reese River, there exists, according to the *Reveille*, a cave large enough to hold comfortably sixty or seventy persons. During the heat of the day this cave is refreshingly cool. At noon when the temperature is at, say 80 degrees, it is not more than 50 degrees in the cave. The sides of the cave are covered with a kind of natural pitch, which has the peculiarity of being soluble in cold water. It is used by the Indians to fasten their arrow heads.

Uncalled For.—A sale of unclaimed packages, in Adams Express office, recently took place in Washington. The packages numbered about 3,000, and the sale continued several days. They generally brought from $4 to $15; they were mostly worthless, although some valuable prizes were picked up.

THE NEW EXCELSIOR DISTRICT.

Although the floating population in this district is beginning to leave in consequence of indications of an early winter, there is nevertheless much activity manifested among the permanent portion of the miners who have already struck a good prospect.

Winter & Robinson's new mill was started on the 14th instant, upon Excelsior rock. This is the first mill completed in the district; although two others are nearly ready to start. The mill of Mr. Long will be second to start, while the California Company have the machinery and lumber for their mill already on the ground. Two hundred pounds of ore from the White Mountain lead, worked at the Mariposa Mill, Virginia, yielded at the rate of $36 per ton—$30 in gold and $6 in silver. The ore was a fair average from near the surface. With the advantages to be had in the district for water, fuel, etc., ores yielding even $25 per ton will be found very profitable to work in Excelsior district. The Wisconsin company is reported to have struck richer rock than ever before, and the Excelsior company is sacking ore from their claim, which is said to be extraordinary rich.

A very rich streak of ore some ten inches in width has been discovered in the Enterprise ledge, containing much coarse gold and much richer ore than any yet found. One piece of gold found in the rock is worth two dollars. An assay of some rock from this ore shows gold $727.90, silver $15.78. There was no gold visible.

The Virginia ledge, recently located, some two miles west of the Enterprise, is composed of a black looking rock, containing much copper and iron as well as some gold. The sulphurets from many of the ledges in this district, appear to be of a very remarkable character, and are probably very easy to work. A specimen in our possession, handed us by our correspondent and travelling agent, Mr. Lattimore, though showing no sign of decomposition, being perfectly bright, and evidently devoid of a particle of galena, nevertheless yield as readily to the knife as that well known ore of lead. This lack of the usual hardness of this mineral is probably due to a peculiar lamilar form of its chrystalization. The specimen is said to contain both gold and silver, although none is visible to the eye.

How the New York Tribune is Conducted. Horace Greeley has recently written a characteristic letter to a friend in which, after alluding to the report that is started nearly every year that Mr. Greeley is about to retire from the editorial charge of the *Tribune*, etc., he says:

We elect an editor of the *Tribune* annually by a stock vote (one hundred shares, one vote each). Once, many years ago, two votes were cast against me for editor—none before or since. I have never heard that any stockholder desired my withdrawal from the *Tribune*.

I mean to reduce my work on it at the earliest moment, and have so stated to all who have a right to know. I am overwhelmed with labor. I grow old, and want rest and comfort. My idea is to get some one else to take the laboring oar, receive the kicks and cuffs, and let me farm a little, fish some, and write when in the spirit. Such is my dream. I hope to realize at least a part of it during the year 1866; but I may not till some time later. You know how circumstances control everything.

At present I am writing about an average of two columns per day, for the *Tribune*—too much; I mean to write less whenever I can. * *

Horace Greeley.

A Significant Fact.—A fact not pleasant but extremely suggestive, has been elicited by the commencement of the Passover on Ballarat (says an Australian paper). The Rev. Hermann, the late appointed pastor of the Ballarat synagogue, killed no less than twenty-two bullocks and seventeen sheep before he could find one that was *kosher*, within the meaning of the Judicial law. The diseases which renders the animal unfit food under the circumstances are almost entirely confined to the head and lungs.

A steamer has succeeded in passing through the famous Dutch Gap Canal. The Silas O. Pierce, a vessel of forty-three feet beam, performed that feat.

THE STATE FAIR—ITS CLOSE.

Among other things which we desired to notice last week, as on exhibition at Sacramento, we will mention Wheeler & Randall's quartz crusher, which was set in operation adjoining one of their famous Excelsior pans. This crusher is very compact in its appearance, simple in construction, and crushes rock with remarkable rapidity. The upper die is worked by an eccentric at the top, and attains a considerable rubbing motion. This was its first appearance in public, and the proprietors received the 1st premium, $10.

Thos. Hansbrow received three first premiums for his world renowned pumps, viz:—best engine pump, $5; best mining pump, $5; best domestic pump, $3. Dr. W. H. Thomas, of Sacramento, received a special premium on his "Ever-primed, Self-ventilating Syphon Pump." This is a new California invention which we may take occasion to describe more fully at another time. Martin Wilcox, of Sacramento, also received a special premium for a new and novel water lifter, contrived so as to raise water by steam pressure (without the aid of an engine), using two perpendicular pipes, floats, valves, etc.

Mrs. Clara A. Bartlett, of Oakland, received the first premium, $5, for best lady's saddle. The invention consists in a convenient device for adjusting portions of the saddle to suit the form and proportions of the rider, and to afford ease by varying the position of the person, by means of a substantially formed slide, and an extension safety-guard on the right side of the saddle.

R. E. Washburn took a special premium on his new style of sluice boxes. His invention places drawers or saving boxes beneath the sluice, containing quicksilver, in such a position as to receive a strong force from the water in its passage, calculated to drive the gold dust into the presence of the mercury. The boxes are readily removed for cleaning up, which enables the miner to avoid being robbed by the most detestable of all kinds of thefts.

W. Wadsworth's American tiller received honorable mention at the hands of the committee. We believe it to be a California invention of much merit.

The following awards are found among the list of first premiums:—Leonard Low, Sacramento, grain separator, $5; Koenig Bros., S. F., boots and shoes, $3; D. & H. A. Winter, S. F., seed plants, $5; Samuel Hill, S. F., Florence sewing machine, $5; P. Mezzara, S. F., plaster busts; Aitkin & Luce, Sacramento, best marble, $10; marble mantle, $15 cup; marble monument, $20 goblet, and also first premium for statuette; H. L. Hopkins, S. F., amalgamator, $10; H. M. Stowe, S. F., chamber drill, $5; E. W. Walton, Drytown, cider press, $10; V. Squarza, S. F., faucet and indicator, punches, cordials, and filters, four first premiums; B. K. Myers, S. F., (Vulcan Iron Works), turbine water wheel; J. N. Horner, washing machine, $5; Will & Frink, S. F., cutlery; Pioneer Woolen Mills, S. F., woolen blankets, flannel, and cloth, $5, $10, and $10; S. Jelly, Sacramento, Grover & Baker sewing machine work, $5; Dewey & Co., Mining and Scientific Press, printing, $3; I. C. Mayer & Sons, furs, $3; Mrs. S. Y. Cheesley, Sacramento, oil portrait and landscape paintings, $3 and $3.

Among other awards we notice special premiums to Samuel Brannan, S. F., sheep shearing machine; J. J. Dennis, Humboldt, petroleum; H. M. Stowe, expanding drill, for boring oil wells; Thos. Peers, Placerville, 7 cases insects; F. F. Smith, Marysville, miniature steam engine, special notice; Wm. Agate, Sacramento, block of Perry's pavement; J. & C. Schrieber, S. F., patent spring mattress; Casey & Kelley, Sacramento, soda fountain; W. R. Frink, S. F., soda fountain; B. K. Myers, lever jacks; T. Scofield, Sacramento, bread slicer, honorable mention; G. H. Mixer, Sacramento, patent couplings; A. E. White, boot blacking machine; W. T. Garrett, S. F., large bell, home make, Col. Warren, of *California Farmer*, several special premiums for seeds, antiquities, coins, minerals, etc.

The races at the Park, on Saturday, were attended by about 8,000 people; Norfolk won the great race, over Lodi, in 5:27½ and 5:29½, 3 mile heats, nearly beating the best time on record, viz: 5:27¼. The purse was $2,000.

Total receipts of the Society amounted to from $16,000 to $18 000. Financially successful, but deficient in many of the features which should characterize the honor and usefulness of our State Fairs.

PALMER'S ARTIFICIAL LIMBS.

No greater earthly blessing could have been vouchsafed to our mutilated heroes, who have been deprived of their natural limbs by casualities in the late civil war of rebellion, than the artificial legs and arms manufactured under the direction of B. F. Palmer, LL. D., with offices in Philadelphia, New York, Boston, and Chicago, for which Mr. Jarvis Jewett is the authorized agent in this city.

Until the invention of this beautiful and artistically constructed artificial limb, the "peg," as it was called, was the best substitute known; and yet that unwelcome and unsightly appendage has ever been more distasteful to a person of fine susceptibility, than the simple crutch. Half the sting and inconvenience of the loss of a limb, has been removed since the invention of Palmer, which is not only an actual attachment to the person; but to the uninformed observer seems to form a part of one's identity, so natural that the counterfeit is often entirely unobserved. Anticipating a great demand for artificial limbs on the breaking out of the war, a large manufactory was constructed by Mr. Palmer, in Chesnut street, Philadelphia, where they are made under his personal supervision, and from whence they are now being turned out at the rate of over 100 per month. These limbs, for all practical purposes, are almost as serviceable as natural ones. They are constructed on the most perfect scientific principles, with a system of springs and wires so arranged as to imitate most closely the natural action of the muscles and joints of the limbs—both arms and legs. The arrangement of the ankle joint, is claimed as quite superior to anything else ever attempted in this line, giving the wearer the ability to move about with a naturalness and ease of motion, most wonderful to behold. It may even be used with grace in the giddy mazes of the dance, and numbers are walking about by the aid of this invention, in a manner which would scarcely give a stranger reason to suppose they had ever been maimed at all—while in reality they have been deprived of both their natural limbs below the knee!

After a patient and careful comparison of the merits of all competitors, the Surgeon-General of the United States and a Board of medical officers especially convened for that purpose, have expressed a decided preference for the Palmer leg and arm over all others, and these limbs are now being very generally adopted by the maimed heroes of our country. We would call the further attention of the reader to the illustrated advertisement of this useful invention, which will be found upon the last page of our present issue.

Cork Fastening.—Among the new inventions on exhibition at the State Fair, we noticed a cork fastening attachment to soda bottles, the right for which is owned and used by Messrs. Casey & Kelley, of Sacramento. A strip of tin is stamped out by a die and looped around the neck of the bottle, forming a collar, to which another strip, passing over the cork, is jointed. The latter piece is stamped ed so as to form a convenient thumb-piece on top for swinging it off the cork. The whole is easily transferred from one bottle to another. The fastening looks neat, is durable, and is preferred by bar-keepers to the wire arrangement, which spoils corks and is difficult of operation. The first set of machinery for manufacturing these fastenings, cost $2,500. Messrs. Casey & Kelley inform us that they can be sold for $5 per hundred, and we can see no reason why they may not become universally adopted.

FROM ARIZONA.

We learn from the *Colorado Miner*, that a party of nineteen have recently left Prescott, the capital of the Territory, to prospect the unexplored country at the head of the Little Colorado, for placer and quartz mines. They got as far as the head waters of the main Sacramento, when they encountered a hostile Indian force, to which they gave battle, routing the Indians, but having two of their own party wounded. They returned to Prescott with their wounded companions, where they had recruited their force and were about to make another start for the purpose of concluding their explorations.

A small 2-stamp quartz mill has been purchased, designed for crushing rock from the Occidental ledge, in Walker district. The *Flag*, of this city, is informed that a Philadelphia company, under the direction of Messrs. Vicroy & Helm, is putting up a 20-stamp mill on a ledge near Turkey Creek. This mill will give employment to one hundred men in a short time. Its location is about thirty miles from Prescott. Gov. Gordon and Mr. Joseph Tyson, are putting up mills in the same vicinity, which is pronounced one of the richest mineral regions in Arizona—abounding in gold, silver, copper, and iron. All that is needed is a sufficient population, or a proper military force, to keep the Indians in check. Gen. Mason has assured the adventurers that, so far as the military are concerned, that matter shall be fully attended to.

New mines have been discovered in Colorado, and a district embracing them has been named Argentine. This discovery is creating considerable excitement. A new military post has been established at Tonto, which will be known as Fort McDowell.

Mr. McCormick, the Secretary of the Territory, now at the East on business connected with his office, writes to the publishers of the *Miner*, the paper published at Prescott, and the only one in the Territory, that he has purchased a new press and type for that office, and that the same will be forwarded with all convenient dispatch. Under the protection of the large military force, which has now been thrown into Arizona, we may soon look for important mineral developments; for that is undoubtedly one of the richest mining regions on the globe.

A Sun Bath.—An open window, with the direct rays of the sun coming in, will be good for the little one. On a hot summer day, to lay it down near the window, quite nude, and let it lie for some minutes where the rays of the sun may fall on its skin, will give it new life. There is a vital relation between sunshine and a vigorous human being. Seclusion from sunshine is one of the greatest misfortunes of civilized life. The same cause which makes potatoe vines white and sickly when grown in dark cellars, operates to produce the pale, sickly girls that are reared in our parlors. Expose either to the direct rays of the sun, and they begin to show color, health and strength. When in London, some years ago, I visited an establishment which had acquired a wide reputation for the cure of those diseases in which prostration and nervous derangement were prominent symptoms. I soon found the secret of success in the use made of sunshine. The slate roof had been removed and a glass one substituted. The upper story was divided into sixteen small rooms, each provided with lounges, washing apparatus, etc. The patient, on entering each his little apartment, removed all his clothing, and exposed himself to the direct rays of the sun. Lying on the lounge and turning over from time to time, each and every part of his body was thus exposed to the life giving rays of the sun, Several London physicians candidly confessed to me that many cases which seemed only waiting for the shroud were galvanized into life and health by this process.—*Dr. Dio Lewis.*

The La Victoire.—We are pleased to learn that the difficulties which, for some time, have existed between the old Board of Trustees of the La Victoire Copper Mining Company, have been satisfactorily adjusted, and that Mr. L. L. Robinson, is now, by consent of all parties, acknowledged the acting President of the company.

The Virginia Daily Union has come out in a new dress. We are pleased to witness the prosperity of our trans-montane neighbor.

A "Capital" Chance.—There has probably never been a more propitious time for the investment of capital in California Quartz Mining, than the present, and when there is such a favorable disposition on the part of Eastern capitalists to lend a portion of their money to help develop our mines, we regret exceedingly that even the slightest portion of their funds should be wasted or thrown away upon wild cat-locations, which have not the semblance of a lode. There is, seemingly, no end to the list of valuable *bona fide* quartz lodes in this State, which are awaiting capital to develop them into permament paying institutions. Many of them are already prospected by deserving men who have not the means to reap, without assistance, the harvest that is already in sight before them. As a sample of this class of mines, we have, in our mind's view just now, one located one and half miles north of Placerville, in a well-known quartz range, the proprietors of which would willingly part with one half for the sake of having the balance worked. The erection of a 10-stamp mill would be considered sufficient. Miners ask no money in such instances, but are willing to look to the yield of their leads for remuneration for money and labor already spent. The company of which we speak, holds, by location, 1,000 feet of the lode. They have run a cut 75 feet in length, and sunk a shaft 6x8 65 feet deep, which, at the bottom, develops the ledge six feet five inches in width, solid quartz and well defined, with regular slate walls. Seventy-five tons of quartz is already out, with sufficient in sight to run a 10-stamp mill six months. The rock from this lode works an average of $15 per ton gold, is uniform, and the owners invite any reliable party desirous of investing to take out five or ten tons and crush for testing the ore before purchasing. A ranch of three hundred and fifty-five acres of timber land also forms a portion of the company's offer. Although this may be one of the most rare opportunities for the investment of money in our mines, yet there are thousands of similar cases where capital only is wanting to produce a sure and abundant harvest.

Coppersmith.—We had the pleasure, last Wednesday, of calling at the workshop of Mr. James Macken, on Fremont street, between Howard and Folsom. Mr. M. was absent in the country; but a young man engaged in the shop took especial pains to show us how the work was done. The workmen were engaged at the time in fastening a steam-pipe for the Market Street R. R. Co., which had been wrenched from the flange, by which it is fastened to the cylinder. They succeeded in making a neat and perfect piece of work. Mr. M. has been engaged in his present business for fourteen years in San Francisco, and since 1853 at his present place. He does a large amount of work for wagon manufacturers in the Sandwich Islands, and for distillers in the interior of this State and in the city. He also does a large amount of marine and steamboat work. His advertisement will be found in another column.

The Jefferson Gold Mining Company, of Brown's Valley, Yuba county, has declared a dividend of $10 to the share. This is the sixth dividend which has been declared by this company. It is said that the daily yield of the mill connected with this mine is from $700 to $1,000. The highest yield is realized when working rock from the lowest drift. The affairs of the company are now in a highly prosperous condition. The work of the last two or three months, is considered as quite demonstrative of the supposed fact that ne lead is rapidly nearing the Pennsylvania claim.

A man in Springfield (Mass.) recently discovered a little tunnel leading from the bottom of a dry well on his premises, and running in a slant from the perpendicular toward the surface of the ground. Investigation showed that the excavation, which was six inches to a foot in diameter, was made by toads, and in it were found no less than fifty-six of them. Some of the diggers were much emaciated, having been at work on short rations for about a month, the time the well had been dry. The tunnel was quite a long one and the toads had only about a foot more to go to reach daylight.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible

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Parties wishing to subscribe or advertise in the MINING AND SCIENTIFIC PRESS can be accommodated by calling upon our Agent, Mr. TURNER HAMILTON, at the Assembly Building, 105 South Tenth street, Philadelphia, Pa., where sample copies of our publications can always be found.

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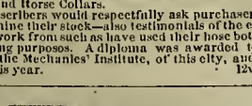
The subscribers would respectfully ask purchasers to call and examine their stock—also testimonials of the efficiency of their work from such as have used their hose both for fire and mining purposes. A diploma was awarded to us last year, by the Mechanics' Institute, of this city, and a silver medal this year. 12v11-1y



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THE Black Hawk *Journal*, of Colorado, tells of a mine in which ice forms in great banks at a considerable depth. This is in contrast with the Ophir mine, in Virginia, where hot water was found at a considerable depth.

THE wire suspension bridge now constructing across the Ohio at Cincinnati is of fifteen hundred and fifty-seven feet span, longer than any other wire suspension bridge in the world.

To Blacksmiths.

An excellent, strong lad, from the interior, 17 years of age, desires to learn the Blacksmith's trade. His parents wish him to engage with a reputable firm, and learn his business thoroughly. Address, or inquire at the office of the MINING AND SCIENTIFIC PRESS. 12v11tf

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No. 240 Montgomery Street,

SAN FRANCISCO.

The Most Liberal Company

IN THE UNITED STATES.

All Policies Non-forfeitable and Indisputable.

No Extra Charge for Residing in the Territories, or for Traveling to and from the Eastern States.

J. A. EATON & CO.,

Managers of the the Pacific Branch.

A CHANCE FOR CAPITALISTS.

The Hinckley Quartz Lead,

Located in Jackson, Amador county, California, containing four hundred feet, is FOR SALE. It has thus far proved to be the richest claim in the county. For further information, enquire on the premises.

Jackson, Sept. 4th, 1865. T. HINCKLEY.

For any further information concerning myself, I will refer (without permission) to A. Hayward, Esq.; Horace Kellum, Esq.; C. W. Rand, U. S. Marshal; Bigelow Bros., Insurance Agents; M. Abrams, Esq. 10v11-4w

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PARAGON PETROLEUM COMPANY.

Incorporated June 2, 1865,

Under the Laws of the State of California.

CAPITAL STOCK,

$600,000.

NO. SHARES.....6,000

Par Value.....$100

OFFICERS:

President.....L. LACOUR
Vice President.....C. C. WILSON
Treasurer.....O. C. WHEELER
Secretary.....M. J. McMANUS

TRUSTEES:

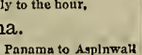
L. LACOUR, O. C. WHEELER, C. C. WILSON.

OFFICE:—No. 206 JACKSON STREET.

The claims of this Company consist of ONE HUNDRED AND SIXTY (160) ACRES of oil land, favorably located on the North Fork of the Mattole river, adjoining the grounds of the Union Mattole Company, Mattole District, Humboldt county, California. The Company are now actively engaged in the development of the claims.

Pacific Mail Steamship Co.

The following Steamships will be dispatched on the following named days.



September 18—COLORADO.....Captain J. T. Watkins.
October 3—CONSTITUTION.....Capt. Farnsworth.

From Folsom street Wharf

At 11 o'clock A. M., punctually to the hour,

For Panama.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company

A Baggage Master will be sent through each trip.

Cabin passengers will be berthed for Atlantic steamer.

OLIVER ELDRIDGE, Agent.

Corner Sacramento and Leidesdorff sts.

Lost or Stolen.

There was lost, or stolen, from our collection of minerals, etc., at the Mechanics' Fair, a sample of the late Telegraph Cable. The lost piece is three inches in length, by one and one-sixteenth in diameter; brass ferrel on each end with raised letters, viz: "Glass, Elliott & Co., Contractors, London." Any person who will return the article to this office, or give information of its whereabouts, will be suitably rewarded.

DEWEY & CO.,
Publishers Mining and Scientific Press.

REMOVAL!

R. WEGENER,

Accountant and Mining Secretary

Has removed to

No. 415 Montgomery Street—west side,

Between Sacramento and California sts.,

6v10 SAN FRANCISCO.

OIL WELL BORERS.

A CONTRACT WILL BE LET TO A RESPONSIBLE party to sink an Oil Well, as deep as may be required, on land belonging to the "Eel River Oil Company," situated in Humboldt county, Cal. For particulars, inquire at the office of the Company, No. 436 Jackson st., up stairs.

12v11-1m E. H. WILSON, Secretary.

THE STYLE

—FOR—

Fall and Winter, 1865,

Will be introduced Aug. 26, at

MEUSSDORFFER'S

HAT MANUFACTORIES,

Nos. 635 & 637 Commercial st., San Francisco,

No. 125 J st., bet. Fourth & Fifth, Sacramento.

Corner D and Second Streets, Marysville. 12v11

LEHIGH COAL.

200 Tons Large Lump Lehigh Coal

Now on Hand.

I am also in constant receipt of

LEHIGH COAL,

And will be able to supply it always

At the Lowest Market Price.

JAMES R. DOYLE,

20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

PREMIUMS.

1st Premium, at Sacramento Fair.....1862

1st Premium, at S. F. Bay District....1862

1st Premium at Sacramento.....1863

1st Premium, at San Francisco.....1864

1st Premium, for Cordials.....1864

1st Premium, for Hygienic Bitters....1864

Awarded to

V. SQUARZA.

Ten Able-Bodied Copper Miners

WANTED,

At the Bunker Hill Mine,

To work for wages (three dollars per day), or on contract.

10v11-tf RICHARD POWNING, Superintendent.

KELLOG CREEK

PETROLEUM AND MINING COMPANY.

INCORPORATED JULY 11TH, 1865,

Under the Laws of the State of California.

NO. SHARES.....10,000

Par Value.....$50 00

W. F. BRANDRETH.....President
J. M. BUFFINGTON.....Secretary and Treasurer

OFFICE—Room No. 10 Government House, corner of Sansome and Washington Sts., San Francisco.

The claims of this Company consists of SIX HUNDRED AND FORTY (640) ACRES, situated on Kellog Creek, in the Marsh Creek Mining District, Contra Costa county, Cal.

One thousand (1,000) shares of the contingent fund is offered at the low price of ONE ($1.00) DOLLAR per share, full paid, all the stock being unassessable. All who wish to purchase, or make any enquiry concerning the Company, will please call on the Secretary,

J. M. BUFFINGTON,

2v11 Corner of Sansome and Washington streets.

HELMBOLD'S

FLUID EXTRACT BUCHU

For Non-Retention or Incontinence of Urine, Inflammation or Ulceration of the Bladder or Kidneys, Diseases of the Prostrate Gland, Gravel, Brick Dust Deposits, Dropsical Swellings, Organic Weakness, Debility, Female Complaints, Etc.

H

HELMBOLD'S

FLUID EXTRACT BUCHU

—AND—

Improved Rose Wash

Will radically exterminate from the system Diseases arising from Habits of Dissipation, *at little expense, little or no change of diet, no inconvenience or exposure*; completely superseding those *unpleasant and dangerous remedies, Copaiba and Mercury*, in curing these diseases.

U

USE HEMBOLD'S

FLUID EXTRACT BUCHU

In all Diseases of the Urinary Organs, whether existing in MALE or FEMALE, *from whatever cause originating, and no matter of how long standing.* It is pleasant in its taste and odor IMMEDIATE in action, and more strengthening than any of the preparations of *Bark or Iron.*

Those suffering from *Broken Down or Delicate Constitutions, procure the Remedy at once.*

The reader must be aware that however slight may be the attack of the above diseases, it is certain to affect his *Bodily Health, Mental Powers and Happiness.* If no treatment is submitted to, Consumption or Insanity may ensue.

All the above diseases require the aid of a diuretic.

Hembold's Extract Buchu

IS THE GREAT DIURETIC.

L

HELMBOLD'S

HIGHLY CONCENTRATED

Compound Fluid Extract Sarsaparilla,

For purifying the Blood, removing all diseases arising from excess and imprudence in life, chronic constitutional diseases arising from an impure state of the blood, and the only reliable and effectual known remedy for the cure of Scrofula, Scald Head, Salt Rheum, Pains and Swelling of the Bones, Ulcerations of the Throat and Legs, Blotches, Pimples on the Face, Tetter, Erysipelas, and all scaly eruptions of the skin, and beautifying the COMPLEXION.

M

NOT A FEW

Of the worst disorders that afflict mankind arise from the corruption that accumulates in the Blood. Of all the discoveries that have been made to purge it out, none can equal in effect HELMBOLD'S CONCENTRATED EXTRACT OF SARSAPARILLA. It cleanses and renovates the Blood, instills the vigor of health into the system, and purges out the humors which make disease. It stimulates the healthy functions of the body, and expels the disorders that grow and rankle in the Blood. Such a remedy, that could be relied on, has long been sought for, and now, for the first time, the public have one on which they can depend. Our space here does not admit of certificates to show its effects, but the trial of a single bottle will show to the sick that it has virtues surpassing anything they have ever taken.

B

Two tablespoonsful of the Extract of Sarsaparilla, added to a pint of water, is equal to the Lisbon Diet Drink, and one bottle is equal to a gallon of the Syrup of Sarsaparilla, or the decoction as usually made.

The above Extracts are prepared on purely scientific principles—in *Vacuo*—and embody the full strength of the ingredients entering into their composition. A ready and conclusive test will be a comparison of their properties with those set forth in the U. S. Dispensatory.

O

HOW TO USE THE REMEDIES.

In Diseases of the Blood, Humors on the Face, or any and every part of the body, use Extract of Sarsaparilla, applying to Pimples and all external Humors or Eruptions the Improved Rose Wash.

Use the Extract Buchu for all diseases requiring the aid of a diuretic, except those of the Urinary Organs, such as Gonorrhœa and Gleet; in these use the Extract Buchu, and inject with the Improved Rose Wash.

L

☞ THESE EXTRACTS HAVE BEEN ADMITTED TO USE IN THE UNITED STATES ARMY, and also are in very general use in all the STATE HOSPITALS AND PUBLIC INSTITUTIONS throughout the land, as well as in private practice, and are considered as invaluable remedies.

MEDICINE DELIVERED TO ANY ADDRESS.

Direct letters to—

HEMBOLD'S DRUG AND CHEMICAL WAREHOUSE,

594 Broadway, New York, next Metropolitan Hotel,

—OR TO—

HEMBOLD'S MEDICAL DEPOT,

104 South Tenth street, Assembly Buildings, Philadelphia.

D

Describe Symptoms in all Communications.

SOLD BY ALL DRUGGISTS EVERYWHERE.

Beware of Counterfeits!

ASK FOR HELMBOLD'S.

TAKE NO OTHER.

HOSTETTER, SMITH & DEAN,

Sole Agents for the Pacific Coast,

17v10 Nos. 401 and 403 Battery street, San Francisco.

PREDICTION VERIFIED.—An Eastern paper says that in 1860 Simon Cameron told Jefferson Davis that if the South seceded he would plant corn in the streets of Charleston, S. C. To keep his promise, Mr. Cameron went to Charleston last spring, planted some corn in a street, and put a soldier to watching and attending to it. The other day he got a package of four ears of corn by Adam's Express as the fruit of his enterprise.

A MODEL miniature locomotive, made of gold and silver, with a ruby for a head light, and costing $4,000, is on exhibition at Taunton, Massachusetts. The wheels are driven by clock work.

MODERN AND ANCIENT.—There are 3,598 boats belonging to the Erie Canal, of which number 1,449 are of greater tonnage than the vessel in which Columbus discovered America.

Metallurgy.

EUROPEAN
METALLURGICAL WORKS,
—AND—
Practical Mining School,
Bryant Street, Between Third and Fourth,
SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphurets, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. KIMBALL, J. R. MURPHY.
10v10

BOALT & STETEFELDT,
Metallurgists and Mining Engineers
AUSTIN, NEVADA.
Western Branch of ADELBERG & RAYMOND, No. 90 Broadway, New York. IIv11

NOTICE
—TO—
COPPER MINING COMPANIES.

The undersigned offer their services for the construction and working of
Furnaces of the most approved form
And on the most economical principle,
For the reduction of COPPER ORES. For further information apply at the office of the CALIFORNIA COPPER SMELTING COMPANY, No. 510 Clay street (office No. 4), San Francisco.
5v11-tf R. EMERSON & CO.

FIRST PREMIUM
FOR REFINING COAL OIL,
At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor B. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,
17v10 643 Third Street, bet. Brannan and Townsend.

NEW DISCOVERY
FOR DESULPHURIZING AND DECOMPOSING
METALLIFEROUS ORES,
—SUCH AS—
Auriferous Sulphurets, Arsenites or Antimonial Telluric, Gold and Silver Ores.

By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by
DANIEL ROSS,
Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me.
EDWARD ARNOLD,
Inventor and Patentee.
Monitor, Alpine county, Cal.
W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11

ASSAYERS
Desirous to commence an ASSAY OFFICE in the mines may buy, at a very low figure, in a prosperous mining county, a complete set of Assaying Apparatus, Scales, Chemicals, and everything necessary to carry on said business. Apply to Lock Box No. 782, Postoffice, San Francisco, stating name and where an interview may be had. 17v10

OIL WELL BORING.
J. SEVENOAKS,
Contractor
For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1729 San Francisco. 2v11

Professional Cards.

Our Patent Agency.

The PATENT AGENCY of the MINING AND SCIENTIFIC PRESS has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of LETTERS PATENT from the United States and foreign Governments cannot be over-rated, and the Proprietors of the PRESS, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

WM. L. DUNCAN,
Stock Broker,
No. 605 Montgomery Street, San Francisco
Mining Shares and Legal Tender Notes bought and sold strictly on commission. Liberal cash advances made on stocks consigned for sale. 1v11-3m

S. C. BUGBEE & SON,
ARCHITECTS.
DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.
74 and 75 Montgomery Block
SAN FRANCISCO. 25v10-3m

DR. H. AUSTIN,
DENTIST,
No. 634 Washington Street,
Between Montgomery and Kearny Streets
[OVER SAN FRANCISCO BATHS]
SAN FRANCISCO. 20v10-qy

N. LOMBARD INGOLS,
Accountant and General Factor,
No. 32 Montgomery Block.
Address, Box 2128, Postoffice, San Francisco. 9v10

A. S. EDWARDS. JAMES N. OLNEY.
EDWARDS, OLNEY & CO.,
Real Estate, Stock, and General
Auction & Commission House.
No. 626 Montgomery Street, Montgomery Block.
JAMES N. OLNEY—Auctioneer.
SECRETARIES of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

AUGUST KUNAST,
Stock Broker,
Member of the
San Francisco Stock and Exchange Board,
Buys and Sells Stocks, Bonds, Etc.
Office, No. 540 Washington Street, San Francisco. 2v10

G. F. DEETKEN,
Mining Engineer and Metallurgist,
Address - - - - - San Francisco. 25v9

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for the State of Nevada and the Territory of Arizona,
AND FOR THE
STATES OF MASSACHUSETTS AND MAINE.
Office, Montgomery Block, 626 Montgomery Street, 10v8-3m SAN FRANCISCO.

FREDERICK MANSELL.
Mechanical & Architectural Draughtsman,
No. 422 California street, corner of Leidsdorff.
Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

GEORGE H. BAKER,
Lithographer & Engraver,
No. 522 Montgomery St., San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

SHERMAN DAY,
Mining Engineer,
No. 56 Montgomery Block, San Francisco,
Will examine, survey and report upon mines, and cons and advise concerning investments in mining property, or the machinery management and expenditures of mines. 22q*

LEANDER RANSOM,
Civil Engineer and Surveyor,
Having been connected with the public works of the State of Ohio for 20 years, and the public surveys of the State of California for 7 years. Also STATE LOCATING AGENT, and as such having the sale of
600,000 Acres of State School Lands,
At the low price of $1.25 per Acre. Terms: Twenty per cent in cash and the balance on a credit of several years.
7v9-t - Office, 323 Montgomery street.

Wanted.
GOLD QUARTZ
Suitable For Cutting Jewelry,
By FRONTIER & DEVIERCY,
19v19-2m 437 ne street, San Francisco

Trades and Manufactures.

Pacific Glass Works
Are now prepared to execute orders for the manufacture of
All Kinds of Bottles to Order.
Office, No. 621 Clay street, San Francisco. 3v11-3m

EDWARD BOSQUI & CO.,
PRINTERS,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
No. 517 Clay street, between Clay and Sansome streets, SAN FRANCISCO. 24v10

BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery and Sansome, San Francisco. 4v8-tf

JOHN DANIEL,
(SUCCESSOR TO O. GOKI)
MARBLE WORKS,
No. 408 Pine st. bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs, Etc., On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco.
Barstow's Metallic Burial Caskets and Cases.
1tf

THEODORE KALLENBERG,
Maker of Models for Inventors.
MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
No. 418 Market street, San Francisco. n7-tf

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Penn.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco, Cal. 10v8-1m

NEW YORK PRICES.
WATCH REPAIRING AT NEW YORK PRICES.
C. E. COLLINS,
No. 602 Montgomery street, San Francisco.
EXCLUSIVE AGENT
—FOR THE—
AMERICAN
WATCH FACTORY.
A large assortment of these
Superior Watches,
In Gold and Silver Cases,
Constantly on hand, and sold at Factory prices. Also,
ENGLISH AND SWISS WATCHES,
Imported directly from the Manufacturers.
The American Company are now making
VERY FINE WATCHES FOR LADIES.
☞ A large assortment of Gold Chains and Jewelry. 25v10-6m
WATCH REPAIRING AT NEW YORK PRICES.
NEW YORK PRICES.

TEETH
☞ Extracting Without Pain. ☜
Drs. Whitcomb & Dyer,
DENTISTS,
[Successors to W. H. Irwin.]
No. 205 Third Street, near Howard,
v9 SAN FRANCISCO.

CALL STABLE.
N. GISHWILLER
Would respectfully inform the public that he has opened a large and well-arranged LIVERY STABLE,
On B street, Sammit City, Cal.,
(two doors below the Lake House), where good Saddle and Buggy Horses can be had at all times. Our charges will be reasonable, and we hope, by prompt attention, to merit a share of the public patronage. 10v11-3m

VALUABLE
PATENT RIGHT
FOR SALE.
The patent right for the United States of a valuable invention can be secured at a bargain by applying at this office. The article is one of general application throughout civilization.
DEWEY & CO., Publishers.

Machinists and Foundries.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.
UNION IRON WORKS!
Corner First and Mission streets,
SAN FRANCISCO.
ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Quartz Mills, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.

Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter. Also, Scott and Eckart's Adjustable Cut-off Regulator—best in use; W. R. Eckart's Balance Valve for Stationary Engines; Woodward's Patent Steam Pump and Fire Engine.

Boilers.

Locomotive, Flue, Tubular, Upright, Cylinder and Cornish, and every variety of Boiler Work. All sizes of tubes and pipes for pumps.

Amalgamating Machinery.

Wheeler & Randall's improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Beldin's pan, Veatch's tubs, Prater's concentrators, Waklee's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

BLAKE'S PATENT QUARTZ CRUSHERS, of all sizes.

Oil Boring Tools and Machinery,

Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.

We have the facilities for working gold and silver quartz and other ores, to test their value, by the hundred weight or ton.

Russia Iron Screens, of all degrees of fineness and of all qualities of iron.

All work done in the best manner at the lowest cash prices. 2Iv10 **H. J. BOOTH & CO.**

Miners' Foundry
—AND—
MACHINE WORKS,
First St., between Howard and Folsom Streets,
SAN FRANCISCO.

EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as
Steam Engines and Boilers, Flour, Saw and Quartz Mills,
Machinery, Mining Pumps, Amalgamators,
Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.

All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.
HOWLAND, ANGEL & KING.

Vulcan Iron Works Company
[ESTABLISHED 1850.]
First, Natoma and Fremont Streets.

IRON FOUNDERS,
Steam Engine and Locomotive
BUILDERS,
Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as
Mining, Steamship, and Steamboat Machinery,
Railroad Machinery, Locomotives, Car Trucks, Car Wheels, Housings and Irons; and
Flouring Mills, Quartz Mills, Sugar Mills, Saw Mills,
Manufacturing Machinery of Every Kind.

Sole Manufacturers of
HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR
BETTS'S AMALGAMATOR;
HERSEE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;
BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;
FAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;
JONVAL'S IMPROVED WATER WHEEL;
STEVEN'S PISTON PACKING RINGS.
LEFFEL'S AMERICAN DOUBLE TURBINE WATER WHEELS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.

Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

JOHN P. GALLAGHER. JOSEPH WEED.
GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.
ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to. Prices moderate. ☜
No. 125 First street, opposite Minna, next door to Pacific Foundry. 12tf
[Removed from Oregon street, between Front and Davis.]

About Corns.—The shape of a corn is exactly similar to that of a carpenter's nail, having a crown or head, and a stem pointing downwards, which piercing the true under-skin irritates the nervous fibres in its vicinity. To cut off the head of the corn is only temporary relief—a cure can only be accomplished by cautiously digging out the stem, which may be thus done by steady hand; steep it in hot water and rub it in with a course towel or the finger nail will not remove it; place a small quantity of oil on the corn and let it souk well in. Then with a penknife, or what is still better, a sharp bodkin, work it out of its bed as you would a thorn. Not a drop of blood should be shed during the operation, and its success may be tested by finding pressure unaccompanied by pain. A small piece of diachylon plaster with a cessation of pressure will complete the cure. Should inflammation have been excited—which may be known by the redness prevailing around it, rest and emolient applications, such as linseed poultice, or a fig, will be found beneficial.

"Patent Paper Reel for Telegraph Register."

San Francisco, Sept. 18, 1865.

Eds Mining and Scientific Press—*Sirs*:—Having noticed the above heading in your valuable paper of the 9th inst., I beg leave to inform you that the invention is not Mr. L. W. Worth's, but one already patented by me, while a resident of Cleveland, Ohio. His form of reel is one that I first got up in 1863, and filed a caveat for, and afterwards improved by putting some gearing, or check machinery, so as not to use so much cord. The length of cord that I use now to run all day, would not run his reel one hour. After making my improvement, I applied for a patent, which was granted to me on the 19th of January, 1864. That patent covers all of his, so-called, improvement, as will be seen by my patent (No. 41,312) which claim reads as follows:

"What I claim for my improvement, is the arrangement of the mutually exchangeable reels D and F, in combination with the gears, cord, pulleys, and weight, the several parts being constructed, arranged, and operating as and for the purpose herein set forth."

This patent was obtained for me by Messrs. Brainard & Burridge, of Cleveland, Ohio, Patent Solicitors. And I further state, that all persons wishing to use said Paper Reels, will please to come and make arrangements with me for their use. As for any advantage he has over other reels, it can only be that he has a greater length of cord to to wind up. The one that I built, of his style, before I had mine patented and after I filed a caveat, had all to be exchanged for my new reel. In putting this up it takes only six screws to do the whole business, and takes up so little room that it is quite a convenient and useful instrument.

Address, HENRY McGANN.
12v11 At the Union Works, First st., San Francisco.

SAN JOSE INSTITUTE

—AND—

COMMERCIAL COLLEGE,

LOCATED AT SAN JOSE, CAL.

MALE AND FEMALE.

The next session of this Institution will commence on

Monday, July 31, 1865.

An experienced and competent BOARD OF INSTRUCTION is engaged, and every facility will be afforded for a thorough course of study, both in the Academic and Commercial Departments.

Catalogues, containing full particulars, furnished upon application to F. GATES, Director,
25v10-3m San Jose, Cal.

SANTA CLARA COLLEGE, S. J.,

SANTA CLARA, CAL.

Conducted by the Fathers of the Society of Jesus.

The FIFTEENTH ANNUAL SESSION of this College will commence on

Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $350

For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco.
3v11 REV. A. MASNATA, S. J., President.

FULTON

Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

MITCHELL'S

COMBINED

FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with OALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.
San Francisco, Aug. 22d, 1865. 10v11-3m

THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting machinery of the most approved construction. Flour, Saw and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully solicited.

GODDARD & COMPANY.

BY AUTHORITY OF THE STATE OF CALIFORNIA

Having fully complied with the law by a deposit of $525,000 bonds of the State of California and the United States

BIGELOW & BROTHER,

GENERAL INSURANCE AGENTS,

FIRE, MARINE AND LIFE INSURANCE,

Capital Represented.....$15,000,000.

California Deposit..... $525,000

Office Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.

LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets	$1,500,000
HOME INSURANCE COMPANY, of New York, Assets	3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets	2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets	1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets	600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets	600,000
CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.	

Policies issued on Freights, Cargoes, and Treasure, from and to All Parts of the World. Voyage War Risks taken on Hulls.

Fire Insurance Policies issued on all kinds of Insurable Property in the Country or City. Losses Payable in Gold Coin of the United States.

We represent the Oldest and Best Companies in the United States, and offer as favorable terms as any agency on this Coast.

Losses paid immediately on adjustment.

BIGELOW & BROTHER,
17-6m **General Agents**

UNION IRON WORKS,

Sacramento.

WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Front Street, between N and O streets,
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MACHINE WORKS,

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

SAN FRANCISCO.

STEAM ENGINE, FLOUR AND SAW MILL

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

☞Special attention paid to Repairing.☜ qy-3

PALMER, KNOX & CO.,

Golden State Iron Works,

Nos. 19, 21, 23 and 25 First Street,

SAN FRANCISCO.

MANUFACTURE ALL KINDS OF

MACHINERY,

STEAM ENGINES AND QUARTZ MILLS

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S

NEW GRINDER AND AMALGAMATOR,

HEPBURN & PETERSON'S

AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10@y-tf

SAN FRANCISCO

Foundry and Machine Works,

N. E. Cor. Fremont and Mission streets,

Manufacturers of

Marine and Stationery Engines,

Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.

—ALSO—

Wine, Cider, Cotton and Tobacco Presses of the latest Improved Patterns.

Brodie's Improved Patent WIND BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Baux & Guiod's Amalgamator and Separator; W. W. Tupper's Patent Sectional Grate Bar; Coal Oil Well Boring Machinery complete, on hand.

STEAM ENGINES AND BOILERS,

Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.

MACHINERY, OF ALL DESCRIPTIONS,

Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates.

6v11-1y **DEVOE, DINSMORE & CO.**

Novelty Iron Works,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY*. Send for a Circular.

E. T. STEEN.

39 and 41 Fremont, and 42 and 44 Beale Sts.,

SAN FRANCISCO 21v9tfq

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MOYNIHAN & AITKEN,

Nos. 311 and 313 Mission street, San Francisco.

All kinds of HIGH AND LOW PRESSURE BOILERS built according to drawing or specification, and sheet-iron work executed at the shortest notice, on the most reasonable terms. 1df

T. MOYNIHAN. J. AITKEN.

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, San Francisco. qy29-t

JOHN LOCHHEAD'S

STEAM ENGINE WORKS,

Beale Street, near Mission Street,

SAN FRANCISCO.

Steam Engines of every description built to order—Marine Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer.

LEWIS COFFEY. J. S. RISDON

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality. Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

OUR NEW YORK AGENCY.

Mr. Geo. M. Newton is our authorized agent in New York City, and will receive advertisements and subscriptions for the Mining and Scientific Press at regular rates. Sample copies of our weekly and monthly issues can be procured by calling upon him, at the office of the "Stockholder," **No. 72 William street.**

Mining and Scientific Press

JOB PRINTING OFFICE,

No. 505 Clay street, corner of Sansome.

CERTIFICATES
—OF—
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—FOR—
MINING
—AND—
PETROLEUM
Companies
Neatly Printed.

Stock Certificates of all kinds embellished with wood cuts and electrotype engravings. We devote special attention to the execution of all kinds of work required by Mining Companies, Machinists and Manufacturers.

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Honest Miner Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 28th day of September, 1865, an Assessment of 50 cents per share was levied upon the Capital Stock of said Company, payable on the 30th day of September, 1865, in United States gold and silver coin, to the Secretary, 402 Front Street, San Francisco.

Any stock upon which said Assessment shall remain unpaid before Saturday, the 28th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 13th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front Street. sc30

La Favorita Mining Company, Moctezuma District, Sonora, Mexico.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 30to day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
John W. Rourke,	76	30	$15 00
Henry Pforr,	30	5	2 50
Henry Pforr,	31	10	5 00
Houry Pforr,	31	20	10 00
Henry Pforr,	33	20	10 00
Henry Pforr,	34	40	20 00
Emilio Clausen, old No.	67	100	50 00
E. Schlott,	11	10	5 00
E. Schlott,	41	2	1 00
Geo. Koppitz,	9	20	10 00
Geo. Koppitz,	15	5	2 50
Hugo Dreschfeld,	8	5	2 50
C. Ziesenies,	17	5	2 50
C. Ziesenies,	63	10	5 00
Henry Schroeder,	57	10	5 00
Henry Schroeder,	60	2	1 00
Also, on account of assessment levied February 28th, 1865, advertised heretofore, but not bid upon:			
Emilio Clausen, old No.	67	100	200 00

And in accordance with law, and an order of the Board of Trustees, made on the 30th day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold at public auction, by Messrs. Olney & Co., at No. 628 Montgomery street, San Francisco, Cal., on the 14th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

ELKAN WASSERMANN, Secretary.

Office, 429 Sacramento street, San Francisco, Cal. se30

Porter Gold and Silver Mining Company, Virginia District, Storey County, Nevada.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 19th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Cole, Delos	5	10	50 00
Grim, A K	109	10	50 00
Grim, A K	103	200	1000 00
Grim, A K	104	95 5-6	479 17
Marston, P F	98	10	50 00
Marston, P F	99	20	100 00
Page, R C	54	13⅓	66 68¾
Page, R C	46	13⅓	66 66¾
Stanchfield, L G	56	10	60 00
Stanchfield, L G	67	5	25 00
Stevens, T H	89	5	25 00
Smith, E F	92	12½	62 50

And in accordance with law, and an order of the Board of Trustees, made on the 19th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., at No. 427 Montgomery street, San Francisco, Cal., on the 14th day of October, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. W. WESTON, Secretary.

Office, 534 Clay street, San Francisco. se30

Sonthern Light Gold and Silver Mining Company, Reese River Mining District, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of September 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the 25th day of September, 1865, in United States gold and silver coin, to the Secretary, at his office, No. 228 Front street, San Francisco, Cal., or to Geo. T. Ferry, Superintendent, Austin, Lander county, Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 28th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

E. J. DRINKHOUSE, Secretary.

Office, No. 228 Front street, San Francisco, Cal. se30

Taurus Mining Company, Santa Fe Mining District, Lander county, Nevada.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 29th day of August, 1865. the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
D E Waldron	12	200	100 00
D E Waldrou	13	100	50 00
D E Waldron	14	100	50 00
D E Waldron	16	140	70 00
T C Hall	30	50	25 00
D H Hall	31	50	25 00
D H Hall	32	50	25 00
D H Hall	35	50	25 00
D H Hall	36	50	25 00
D H Hall	37	50	25 00
B Morou	91	10	5 00
B Morou	hal 40 and 93	210	105 00
G H Willard	44	52	26 00
G H Willard	45	52	26 00
G H Willard	48	53	26 50
G H Willard	47	53	26 50
J A Veatch	48 to 52 inc 10-ea	50	25 00
J A Veatch	53 to 58 inc 15-ea	90	45 00
J A Veatch	59 to 64 inc 20-ea	120	60 00
J A Veatch	65 to 68 inc 25 ea	100	50 00
J A Veatch	not issued	360	180 00
J S Currie	69 to 73 inc 10-ea	60	25 00
J S Currie	74 to 79 inc 15-ea	90	45 00
J S Currio	80 to 85 inc 20-ea	120	60 00
J S Currio	88 to 89 inc 26-ea	100	50 00
J S Currie	not issued	360	180 00
R J Moody	90	75	37 50
I C Bateman	95 96 98 5-ea	15	7 50
I C Bateman	99 100 101 10-ea	30	15 00
Quintin Ribo	102 103 104 105 106 50-ea	250	125 00
Quintin Ribo	bal 108	235	117 50
Wm M Davis	109	25	12 50
Wm M Davis	not issued	650	325 00
Cornelius Smith	110	25	12 50
H Bordas	113	20	10 00
Timothy Harris	114	25	12 50
Mary A Clark	115	25	12 50
Henry F Aekley	116	25	12 50
R O'Keefe	117	10	5 00
R O'Keefe	118	15	7 50
Henry Gribbin	119	25	12 50
J de Walker	120	26	12 50
G Colero	121 to 127 inc 10-ea	70	35 00
C Golero	129 to 133 inc 10 ea	50	25 00
A H Stout	133	25	12 50
Artse Molinelli	146	10	5 00
J A Ciusti	151	20	10 00

And in accordance with law, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on the 14th day of October, 1865, at the hour of 12 o'clock M. of said day. to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner Clay and Front streets, San Francisco, Cal. sc30

Mining Notices--Continued.

New Mining Advertisements to be found under another heading.

Apollin Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable on the 9th day of September, 1865, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. se9

Blue Ledge Gold and Silver Mining Company, Lander county. Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 9th day of September, 1865, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. se9

Constitution and By-Laws
—OF—
Mining and Prospecting Companies

Elegantly printed, with care and dispatch, at the office of the **Mining and Scientific Press.**

☞ Orders from the interior faithfully attended to.

Black Ledge Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of two ($2) dollars per share was levied upon the capital stock of said Company, payable on the 9th day of September, 1865, in United States currency, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 24th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. se9

Bolinas Petroleum Company, Marin County, California.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 14th day of August, 1866, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Holden, Wm	13	50	$25 00
Higgins, D	25	80	40 00
Barker & Rosenfield	20	100	50 00
Baxter, E H	11	50	25 00
Fox, H L	10	50	25 00
B Jurgeus	14	50	25 00
Foster, L J	28	25	12 50
Stacey, M V	31	10	5 00
Staules, J S	35	5	2 50

And in accordance with law and an order of the Board of Trustees, made on the 14th day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, at the office of the Company, 611 Clay street (Room 3), San Francisco, on the 21 day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. L. KIRBY, Secretary.

Office, 611 Clay street, San Francisco. sc16-3w

Bella Vista Gold and Silver Mining Company, Cacachillas District, Lower California.—San Francisco, September 9th, 1865.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of September, 1865, an assessment of thirty (30) cents per share was levied upon the capital stock of said company, payable on the 10th day of September, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, 326 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. FULLER, Secretary.

Office, 326 Clay street, San Francisco. se16

Edward Everett Silver Mining Company, Cortez Mining District, Lander county, Nevada

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of April, 1864, an assessment of twenty cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner Clay and Front streets, San Francisco, California. se9-5w

Good Hope Gold and Silver Mining Company, Alpine District, Alpine County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 11th day of September, 1865, an assessment (No. 9) of fifty cents per share was levied upon the capital stock of said company, payable on or before the 9th day of October, 1865, in United States gold and silver coin, to the Secretary, at his office, 526 Montgomery street, San Francisco, or to H. Morris, at Markleeville. [*Delinquents will be held for accruing costs after the 9th of October.*]

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale, By order of the Board of Trustees.

PRESTON MORRIS, Secretary.

Office, 526 Montgomery street, San Francisco. se16

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal. Assessment No. 7.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, only, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, removed to 338 Montgomery street, San Francisco. se23

Office of the Great Western Tunnel and Mining Company.—San Francisco, September 6th, 1865.

The Annual Meeting of the stockholders of the above Company will be held at the office of the President, Dr. I. Rowell, No. 620 Kearny street, San Francisco, on Thursday, the 5th day of October, 1865, at 10 o'clock A. M., at which the attendance of all stockholders is requested.

se9-td JOS. C. FORD, Secretary.

Globe Gold and Silver Mining Company, Monitor District, Alpine county, California.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 23d day of August, 1866, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount
C Kirby	1	16	32 00
J M James	2	16	32 00
Frederick Werner,	3	10	22 00
D Davidson,	4	10	20 00
V Squarza	6	6	10 00
V Squarza	6	6	10 00
Myrtilla Miner	7	10	20 00
I S Powers	8	50	100 00
I S Powers	9	50	100 00
I S Powers	10	10	20 00
I S Powers	11	10	20 00
I S Powers	12	10	20 00
I S Powers	13	10	20 00
I S Powers	15	5	10 00
I S Powers	16	5	10 00
I S Powers	18	5	10 00
I S Powers	64	30	60 00
I S Powers	60	50	100 00
Levi Miller	21	5	10 00
Levi Miller	22	5	10 00
Levi Miller	23	5	10 00
Levi Miller	26	10	20 00
Levi Miller	30	10	20 00
Levi Miller	32	10	20 00
L Pilkington	36	5	10 00
R D Williams	37	10	20 00
B Curran	38	5	10 00
Anthony McLeau	40	5	10 00
William Gibbie	41	5	10 00
John Sutherland	42	10	20 00
R H Peterson	44	5	10 00
Peter Ramsey	45	10	20 00
Peter Ramsey	46	15	30 00
George Hogan	47	5	10 00
Mrs L M Irving	48	50	100 00
J W Clark	49	5	10 00
Charles Bent	52	25	50 00
Jonas Winchester	53	300	000 00
Nelson Sizer	65	10	20 00
Samuel R Wells	56	5	10 00
Lester A Roberts	57	10	20 00
Lester A Roberts	58	5	10 00
J B Pillington "not issued,"		25	50 00
D Davidson "		92	184 00
William Hannah "		25	50 00
I S Powers "		10	20 00

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Olney & Co., No. 626 Montgomery street, San Francisco, Cal., on the 12th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

V. B. POST, Secretary.

Office, 1421 Taylor street, San Francisco, Cal. se23

Hanscom Copper Mining Company, Low Divide District, Del Norte county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of September, 1865, an assessment of fifteen cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, 609 Market street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

S. S. SWEET, Secretary.

Office, 609 Market street, San Francisco, Cal. se9

Joe Lane Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 4th day of September, 1865, an assessment of fifty cents per share was levied upon the capital stock of said company, payable on the 9th day of September, 1865, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. se9

Jewett Gold and Silver Mining Company, Gold Hill District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of September, 1865, an assessment of one ($1) dollar per share was levied upon the assessable capital stock of said company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Thursday, the 4th day of October, 1865, will be advertised as delinquent, and unless payment shall be made before, will be sold on Saturday, the 21st day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. M. BURNHAM, Secretary pro tem.

Office, 509 Clay street, San Francisco. se9

Kimblin Ravine Company, Sierra County, California.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 12th day of August. 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
J Bandmann (owned by A Meulo)	not issued	4	$100 00
A M Cilman	not issued	4	100 00
W Bryarly	not issued	4	100 00
F v Stech	not issued	4	100 00
A Alers	not issued	1	25 00
F v Richthofen	not issued	3	75 00
F v Richthofen	not issued	4	100 00

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Edwards, Olney & Co., at 628 Montgomery street, San Francisco, California, on the 21 day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

H. NIELSEN, Secretary.

Office, 210 Front street, San Francisco. sc16-3w

La Favorita Mining Company, Moctezuma District, Sonora, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 3.1th day of August, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 31st day of August, 1865, in United States gold coin, to the Secretary, 429 Sacramento street, San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 30th day of September, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 14th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

E. WASSERMAN, Secretary.

Office, 429 Sacramento street, San Francisco. se2

Leland Gold and Silver Mining Company,

San Francisco District, Mohave county, Arizona Territory.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 17th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
L P Ward	74	40	$1d 00
Thomas Stewart	48	10	2 50
William Packard	50	50	12 50
William Packard	52	50	12 50
William Packard	53	50	12 50
William Packard	88	100	25 50
William Packard	108	11	2 75

And in accordance with law and an order of the Board of Trustees, made on the 17th day of August, 1865, so many shares of each parcel of said Stock as may be necessary, will be sold at public auction at the Office of the Company, No. 302 Montgomery street, San Francisco, on the 2d day of October, 1865, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

WM. HOLLIS, Secretary.

Office, Room No. 2 (3d floor), 302 Montgomery street, San Francisco. se1d-3w

Lady of the Lake Gold and Silver Mining Company, San Francisco District, Mohave county, Arizona Territory.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 17th day of August, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
William Packard	113	261	$05 25
A W Webb	48	20	5 00
A W Webb	49	10	2 50
A W Webb	87	65	16 25
A W Webb	88	35	8 75

And in accordance with law, and an order of the Board of Trustees, made on the 17th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, No. 302 Montgomery street, San Francisco, Cal., on the 21 day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

WM. HOLLIS, Secretary.

Office, Room No. 2 (third floor), 302 Montgomery street, San Francisco. se18-3w

Lady Franklin Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment (No. 5) levied on the 15th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
John Bardsley	not issued	2½	$1 25
Crowson Smith	not issued	2	1 00
C Larson	not issued	70¼	35 25
John C McCauley	38	4	2 00
Estate of Henry Mercer	124	5	2 50
Geo Loring	163	5	2 50
Maria Silverberg	164	3	1 50
F G Burns	175	3½	1 75
Wm James Thomas	201 10 shares		
	202 5 shares	15	7 50
W H Sawyer	217	10	5 00
M Silverstein	2-1	1	50
J Hall	222	4	2 00
T K Wilson	49, 1½ share		
	50, 1 share	2½	1 25

And in accordance with law, and an order of the Board of Trustees, made on the 15th day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Messrs. Edwards, Olney & Co., at the office of the Secretary, No. 305 Montgomery street, San Francisco, California, on the 6th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, corner of Pine, San Francisco, California. se16-3w

Mammoth Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Assessment No. 5.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, only, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary,

Office, removed to 338 Montgomery street, San Francisco. se23

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

Nevada Gold and Silver Mining Company, Lander county, Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 16th day of August, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Bradley, H W	71	15	$7 50
Brown, E J	96	20	10 00
Daniel, Mcb	d	7½	3 75
Drinkelspiel, L	78	10	5 00
Francis, D B	7	7½	3 75
Greene, Sim'l H	70	19	9 50
Harker, W B C	47	5	2 50
Heath, R W	1d	22	11 00
Knox, J W	87	15	7 50
Landenburger, T E	1	7½	3 75
Landenberger, T E	6d	2½	1 25
Mills, H O	30	5	2 50
Murphy, Daniel	76	1d⅔	8 33
Upton, M	68	10	5 00
Wightman, Jno	15	15	7 50
Waterman, T A	33	25	12 50
Waterman, T A	34	25	12 50
Waterman, T A	35	20	10 00
Waterman, T A	36	10	5 00
Waterman, T A	37	5	2 50
Waterman, T A	38	5	2 50
Waterman, T A	39	5	2 50
Waterman, T A	40	6⅔	3 33
J J Williams	09	7½	3 75

And in accordance with law, and an order of the Board of Trustees, made on the 16th day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Jones & Bendixon, auctioneers, at the office of the Company, on the 9th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street (up stairs). se18-3w

North American Tin Mining Company, San Juan del Rio, State of Durango, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at his office.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 1st day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

I. N. THORNE, Secretary.

Office, No. 535 Clay street, San Francisco, Cal. se16

Ontario Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of September, 1865, an assessment of fifty cents per share, was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, or to T. P. CARROLL, at Austin, Nevada.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

A. H. BEWLEY, Secretary.

Office, 323 Montgomery street (Odd Fellows' Hall), San Francisco, Cal. se23

Old Colony Silver Mining Company, Austin, Reese River Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of September, 1865, an assessment of six dollars per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 523 Montgomery street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. O. HOWARD, Secretary.

Office, 523 Montgomery street, San Francisco. se16

Pizarro Silver Mining Company. Cortez Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of November, 1863, an assessment of ten cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees

C. H. BURTON, Secretary.

Office, Room 4, northwest corner of Clay and Front street, San Francisco, Cal. se16-4w

Simpson Mining and Milling Company, Mokel-umne and Excelsior Districts, Alpine county, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 13th day of September, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable on the 14th day of September, 1865, in United States gold and silver coin, to the Secretary, at the Company's office, No. 55 Montgomery Block, in the city and county of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, S. E. corner of Washington and Montgomery streets. Office hours, 10 A. M. to 3 P. M.

San Francisco, September 13, 1865. se16

Segregated Belcher Mining Company, Gold Hill District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of September, 1865, an assessment of two dollars per share was levied upon the capital stock of said Company, payable on the 11th day of September, 1865, in United States gold and silver coin, to the Secretary, 318 California street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 23d day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOHN F. LOUSE, Secretary.

Office, No. 318 California street (up stairs), San Francisco, California. se9

Santa Cruz Petroleum Oil Works Company, location, Santa Cruz county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 15th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Brooks, Edmd	553	100	30 00
Cooper, J B L	578	15	4 50
Campbell, Mrs Cath E	590	1d0	30 00
Caselli, A	599	100	30 d0
Cohen, Angelo	d55	100	30 d0
Cook, W S	998	50	15 00
Cerf, Julius	721	29	8 70
Durham, B F	303	5	1 50
Derrick, W H	570	10	3 00
Derrick, W H	573	100	30 00
Derrick, W H	580	11	3 30
Day, Thomas	688	54	15 d0
Day, Thomas	710	50	15 00
Donnolly, Th	642	35	10 50
Dreschfeld, Henry	801	100	30 00
Dreschfeld, Henry	602	50	15 00
Dreschfeld, Henry	803	50	15 00
Fell, Wm	bal 639	57	17 10
Hempbill, Uriah	561	5	1 50
Hart, Miss Frances M	017	100	30 00
Hazeltine, Wm	160	1b	3 00
Laugdom, Saml	173	20	6 00
Laugdom, Saml	174	20	6 00
Laugdom, Saml	175	20	6 d0
Laugdom, Saml	176	20	0 00
Laugdom, Saml	222	50	15 d0
Laugdom, Saml	342	11	3 30
McGlennon, E D	344	3	90
Monks, R B	400	15	4 5d
Mahl, G	6b0	100	30 00
McCurdy, S H	713	50	15 00
Morris, Th D	728	50	15 00
Morris, Th D	7:9	25	7 50
Post, Mrs Harmy	315	10	3 00
Reid & Brooks	134	45	13 50
Reid & Brooks	312	6	1 80
Rand, Mrs Mary A	138	5	1 50
Root, W D	022	50	15 00
Root, W D	6 3	52	15 60
Reed, H R	730	25	7 50
Shirley, T W	618	100	30 00
Shirley, T W	619	50	15 00
Shirley, T W	620	107	32 10
Shirley, T W	687	50	15 00
Sharp, W H	598	100	3b 0q
Shirley, J	530	5	1 50
Smyth, E T	119	5	1 50
Smyth, E T	412	5	1 50
Woodward, W A	597	150	45 00
Williams, Edw L	643	20	8 00
Way, Danl R	723	41	15 30
Way, Danl E	724	51	12 30

And in accordance with law, and an order of the Board of Trustees, made on the 13th day of September, 1885, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Cobb & Sinton, 406 Montgomery street, San Francisco, on the 7th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

R. WEGENER, Secretary.

Office, 415 Montgomery street, San Francisco, Cal. se23

Table Mountain Copper Mining Company, Copperopolis, Calaveras county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 22d day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Burke, John	171	29	14 50
Buzzolini, D	329	5	2 50
Cutler, Thomas	324 332 15ca	30	15 00
Demill, E G	228	25	12 50
Demill, E G	229	11	5 50
Dorland, Thomas	239	50	25 00
Geddis, Wm H	33	16	8 00
Geddis, Wm H	34 35 36 37 38 10-ea	50	25 00
Gates James R	288	10	5 00
Honisberger, L	181	100	50 00
Howell, James	56 & 325	277	123 50
Hluchbu, I E	198	15	7 50
Hauson, C	200	15	7 50
Johnson, John	355	10	5 00
Mason, N H A	143	133	66 50
Newby, Richard	240	57	
Newby, Richard	248 301 202 20-ea	0d	
Newby, Richard	264 271 50-ea	100	
Newby, Richard	247 303 304		
	305 307 10-ea	50	
Newby, Richard	306	3	135 00
Phillips, Miss M E	150	5	2 50
Pentland, Henry	208	25	12 50
Smith, Mrs C A	238	5	2 50
Sutton, C Jr	296	5	2 50
Sawyer, C L	258	10	5 00
Van De Water, R J	136	30	
Van De Water, R J	158	4	17 00
Vaa Vlack, Henry	277	15	
Van Vlack, Henry	289	5	10 00

And in accordance with law and an order of the Board of Trustees, made on the 22d day of August, 1885, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at No. 626 Montgomery street, San Francisco, Cal., on Thursday, the 12th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco, Cal. se23

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

United States Mining Company, Virginia Dis-trict, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of September, 1865, an assessment of 25 cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold or silver coin, to the Secretary, or to JAS. V. COLTER, at Virginia.

Any stock upon which said assessment shall remain unpaid on Monday, the 16th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. M. BUFFINGTON, Secretary.

Office, No. 10 Government House, corner Sansome and Washington streets, San Francisco, Cal. se16

Vulcan Mining Company, Santa Fe Min-ing District, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 15th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount
D E Waldron	2	9b	$45 00
D H Hall	42	50	25 00
D H Hall	43	50	25 00
D H Hall	188	35	17 50
G H Willard	53	34	17 00
James Morgan	143	50	25 00

And in accordance with law, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, California, on the thirtieth day of September, 1865, at the hour of twelve o'clock, noon, of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. H. BURTON, Secretary.

Office, Room 4, N.W. corner Clay and Front street, San Francisco, Cal. se18-3w

Walpi Gold and Silver Mining Company, Moss Lode, San Francisco Mining District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of September, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said Company, payable on the 16th day of September, 1865, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 30th day day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

H. B. GONGDON, Secretary.

Office, 620 Washington street (Room 5). se16

Wide West Gold and Silver Mining Company, Silver Mountain District, Alpine County, California.

Assessment No. 4.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, or to F. L. JACKSON, Superintendent, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 30th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, removed to 338 Montgomery street, San Francisco.

NOTICE.—At the above meeting Assessment No. 2 of 50 cents per share, levied August 22d, 1864, and assessment No. 3, levied March 18th, 1865, also for 50 cents per share, were rescinded, and stockholders having paid the same, or any portion thereof, will be credited on above Assessment No. 4 accordingly.

se16 W. D. ROOT, Secretary.

Yosemite Silver Mining Company, Oro Fino District, Humboldt county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 20th day of September, 1865, an assessment of one dollar and twenty-five cents ($1.25) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to D. H. CROWE, No. 402 Front street (up stairs), San Francisco, or to JAS. T. MACLEAN, Superintendent, at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

S. O. PUTNAM, Secretary.

San Francisco, Sept. 20, 1865. se23

Yankee Blade Tunnel Company, Reese River District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 4th day of September, 1865, an assessment of thirty (30) cents per share was levied upon the capital stock of said Company, payable on the 6th day of September, 1865, in United States gold and silver coin, to the Secretary, at his office, 305 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 7th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 27th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, San Francisco. se9

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

SUMMER FRUITS.—Acids promote the separation of the bile from the blood, which is then passed from the system, thus preventing fevers, the prevailing diseases of Summer. All fevers are billious—that is, the bile is in the blood. Whatever is antagonistic to fever is cooling. It is a common saying that fruits are "cooling," and also berries of every description; it is because the acidity which they contain aids in purifying the blood. Hence, the great yearnings for greens, and lettuce, and salads in the early Spring, these being eaten with vinegar; hence, also, the taste for something sour, for lemonades, on an attack of fever. But this being the case, it is easy to see that we nullify the good effects of fruits and berries in proportion as we eat them with sugar, or even sweet milk or cream. If we eat them in their natural state, fresh, ripe, perfect, it is almost impossible to eat too many—to eat enough to hurt us, especially if we eat them alone, not taking any liquid with them whatever.

MORE than 300 dead bodies which were found in New York and the harbor last year, were buried without recognition.

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Hazard Powder Company.

EUREKA

PATENT BLASTING POWDER,

Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets.

Room No. 9, with San Francisco Chemical Works,

CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2v11qy

WILLIAM PENROSE,

Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,

Is prepared to buy in any quantity

COPPER, SILVER, GOLD, LEAD

AND OTHER VALUABLE ORES;

Also Lead Bars Containing Gold and Silver,

☞ Full value paid on delivery in this City. ☜

Address Lock Box No. 992, P. O., San Francisco. 25v10

Copper, Lead, Gold, Silver,

Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,

Agent for Townshend, Wood & Co., Swansea,

No. 416 Battery Street, San Francisco.

15v10-3m

MARTIN & CO.,

Office, Stevenson House,

Corner California and Montgomery streets (up stairs).

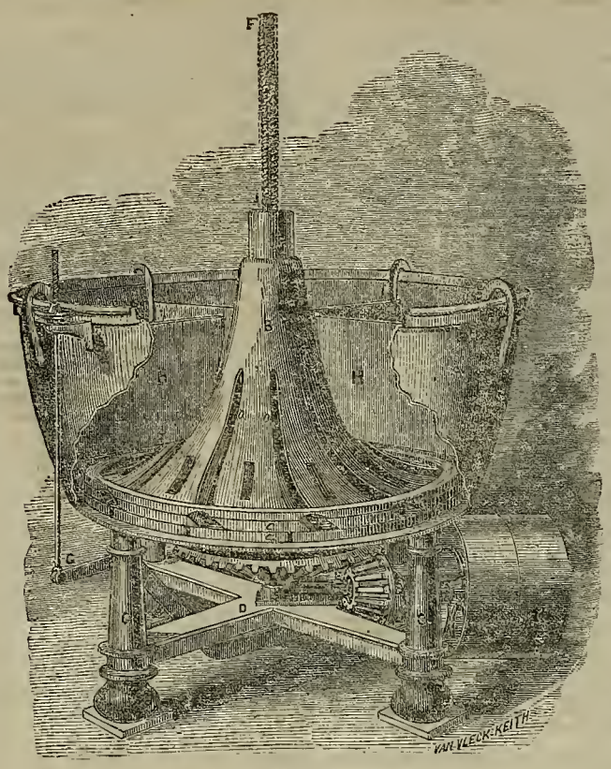
WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES,

Assaying eight per cent. and upwards of Copper to the ton.

We will make advances upon Ores of Copper,

San Francisco, Post Office Box 1259, 22



THE EXCELSIOR GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

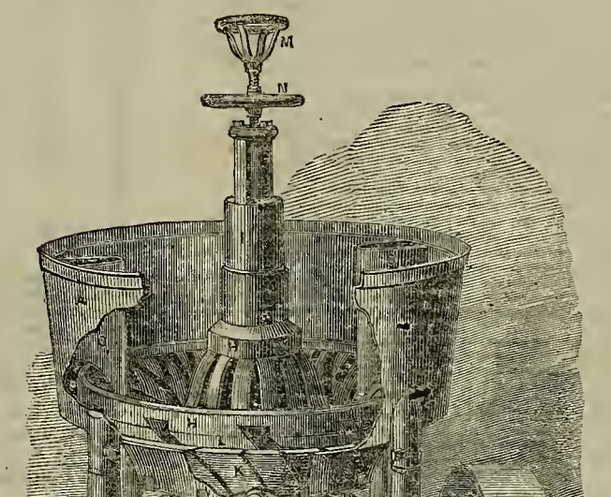
Union Iron Works and Golden State Iron Works.

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.



THE WHEELER & RANDALL Grinder and Amalgamator

In the engraving herewith exhibited, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Plates.

The attention of the Public is respectfully called to these facts:

1st. That the Mechanical work accomplished by differently formed grinding plates, having the same diameter, weight, hardness, and revolving at the same velocity, is as follows, to wit:

The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory-formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

2d. That as a whole, the Wheeler & Randall Grinder and Amalgamator is one of the most simple, compact, substantial, convenient and efficient pans in use.

☞ Patent applied for.

MANUFACTURED AT

GOLDEN STATE IRON WORKS.....San Francisco
UNION IRON WORKS..... "
MINERS' FOUNDRY..... "
SAN FRANCISCO FOUNDRY..... "
PRESCOTT & SCHEIDEL.....Marysville.
OREGON IRON WORKS.....Portland, Oregon.

WHEELER & RANDALL, Inventors.

SAN FRANCISCO, JUNE 13, 1865.

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 6, 1865. 11v10-tf

SAN FRANCISCO

CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at **TUBBS & CO.'S,**

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14v10

WE ARE NOW OFFERING

OUR IMMENSE STOCK

—OF—

Fine Custom Made Clothing

—AND—

Gents' Furnishing Goods

AT PRICES THAT DEFY COMPETITION.

Our Stock of Clothing Consists of

ALL THE LATEST STYLES

BOTH OF MATERIAL AND FINISH.

A Large Assortment of

Trunks, Valises, Carpet Bags, Blankets, Etc.,

AT EXTREMELY LOW PRICES.

J. R. MEAD & CO.,

8v10 Cor. of Washington and Sansome streets.

PEACHES WITHOUT STONES.—We find the following in an Eastern journal: To make peaches grow without stones, an agriculturist who has tried it with success, says: "Turn the top of the tree down, cut off the ends, stick them into the ground, and fasten so with stakes. In a year or two these tops will take root, and when well rooted, cut the branches connecting these reversed and rooted branches with the tree proper, and this reversed peach tree will produce fine peaches without stones." The same experiment may be tried with plums, cherries and currants.

M. GNUVERNEUR, a printer of Nogent-le-Potrou (Eure-et-Loir) has succeeded in making gas for lighting with the refuse of the apples and pears used in making cider and perry. This gas is said to be superior to that made from coal, as it emits neither smoke nor smell. The cost is estimated at 10 centimes (one penny) for the first cubic metre, and 5 centimes for the remainder.

Agent Wanted.

A good Canvassing Agent can secure permanent and remunerative employment by calling at the office of the MINING AND SCIENTIFIC PRESS, 505 Clay street.

DEWEY & CO.,
Publishers and Job Printers,
Office Mining and Scientific Press, San Francisco.

Machinery.

ATTENTION, MINERS!

LINSCOTT'S PATENT CHAMBER DRILL.

Great Improving in Blasting.

W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.

D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ¾ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

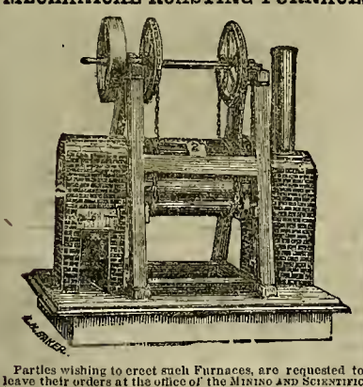
The Mechanics' Institute

AWARDED A

PREMIUM SILVER MEDAL

TO BRUCKNER'S

MECHANICAL ROASTING FURNACE.



Parties wishing to erect such Furnaces, are requested to leave their orders at the office of the MINING AND SCIENTIFIC PRESS.

W. BRUCKNER, Mining Engineer,
12v11 901 Kearney St, Room No. 12.

M. DISNEY'S

Endless Chain Water Wheel

Gives the greatest power from the same amount of water of any wheel in use. Every pound of water used gives one pound power. It is cheap and easily constructed, and can be built anywhere, and may be so constructed as to give any amount of power according to the amount of water and the fall. It is now on exhibition at

521 Market street, in this City.

All are invited to call and see for themselves. We are ready to put in Wheels either on sluggish streams or under head. RIGHTS FOR SALE.

☞ This Wheel is peculiarly adapted to running streams, where parties cannot build dams so as to make use of the fall.

M. DISNEY, Inventor.
San Francisco, Sept. 6th, 1865. 11v10-4w

Hepburn & Peterson's

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing simi lar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th.

Illustrated in the Mining and Scientific Press, April 9th, 864.]

HEPBURN & PETERSON.
nov8 3m*

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Crocodile Quartz Crusher; his Pulverizer; and his Improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. B. FAUCHERY, Engineer,
24v9

BLAKE'S

QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA, WASHOE, ENGLAND, FRANCE,

— AND —

THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,
Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.
4v10

VARNEY'S

PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the apertures and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setlers made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setlers for themselves, at the PACIFIC FOUNDRY,
1v1 San Francisco.

NOTICE.

The undersigned having purchased the EXCLUSIVE RIGHT in and for the State of California, for the

Manufacture and Sale of

WINHAM'S

PATENT HOSE COUPLING,

Hereby caution all parties against the manufacture or purchase of the above Hose Couplings, except through us, as any infringement will be prosecuted to the full extent the law.

PRESCOTT & SCHEIDEL,
Marysville Foundry
March 31st, 1865. 13v10

SALMON'S

PROPELLOR AMALGAMATOR

— AND —

Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

9v11 J. & W. C. SALMON.

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSITON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery, or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

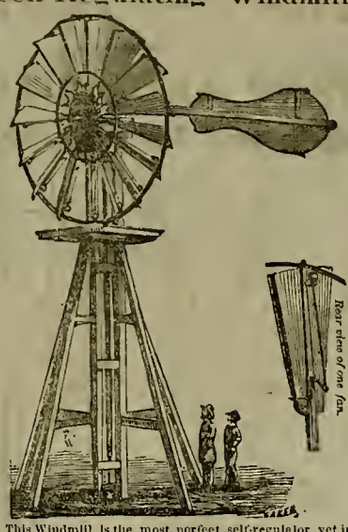
Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street above First (opposite the Oriental Hotel), San Francisco.
26v10

ATWOOD'S

Self-Regulating Windmill.



This Windmill is the most perfect self-regulator yet invented, and is capable of being adjusted to any desired speed. Manufactured at

222 Mission Street, North side, below Beale,

SAN FRANCISCO.

N. B.—We also manufacture DICKERSON'S SELF-REGULATING MILLS; also, Rotary and Stationary Mills of different styles and prices, varying from $50 to $500 each; also round and square Water Tanks made to order.

222 Mission street, below Beale. 5

HUNT'S

IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN

HORSE POWER

For Sawing Wood.

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,
No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

HUNT'S PATENT

Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,
7v10 28 Second street, San Francisco

DENIS WHELAN,

Fashionable Boot Maker

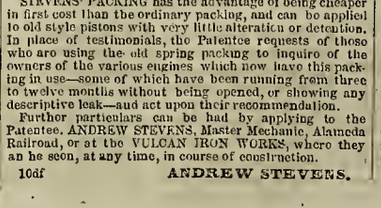
REPAIRING NEATLY DONE, AT SHORT NOTICE.

No. 17 Fourth Street,

Near Market street, San Francisco.

15v10-1m*

Stevens' Pressure Packing.



Patented March 7th, 1865.

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

STEVENS' PACKING has the advantage of being cheaper in first cost than the ordinary packing, and can be applied to old style pistons with very little alteration or detention. In place of testimonials, the Patentee requests of those who are using the old spring packing to inquire of the owners of the various engines which now have this packing in use—some of which have been running from three to twelve months without being opened, or showing any descriptive leak—and act upon their recommendation.

Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Alameda Railroad, or at the VULCAN IRON WORKS, where they can be seen, at any time, in course of construction.

16df ANDREW STEVENS.

WATER WHEELS!

Equal to the Best Overshot Wheel

POWER PLEDGED

IN EXISTENCE.

LEFFEL'S

AMERICAN DOUBLE TURBINE,

Is now manufactured by the Vulcan Iron Works Company, in this city, and orders for the same can be filled immediately. We have a large supply of the different sizes, from 10 inches to 30¾. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 400 to 500 pounds, will yield from 30 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to

LEFFEL & MYERS,
At Vulcan Iron Works, office 137 and 139 First street, San Francisco. 4v11-tf

TO QUARTZ MINERS.

Hinkle's Centrifugal Pulverizer and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUGAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steen, Nos. 37 & 39 Fremont street, between Market and Mission streets.

This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine, made entirely of iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

Mr. Hanson, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 60 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to

PHILIP HINKLE,
At the Novelty Iron Works, Nos. 37 & 39 Fremont street.
15-1m

BAUX & GUIOD'S

Separator & Amalgamator

Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jeffersonian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crail's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Heinch & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,
Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8-6df

McCOMB'S

CUMULATIVE POWER PRESS

AND

ARROW TIE.

E. C McCOMB, Agent.
No. 1 Government House, cor. Sansome and Washington sts.
23v10 3m

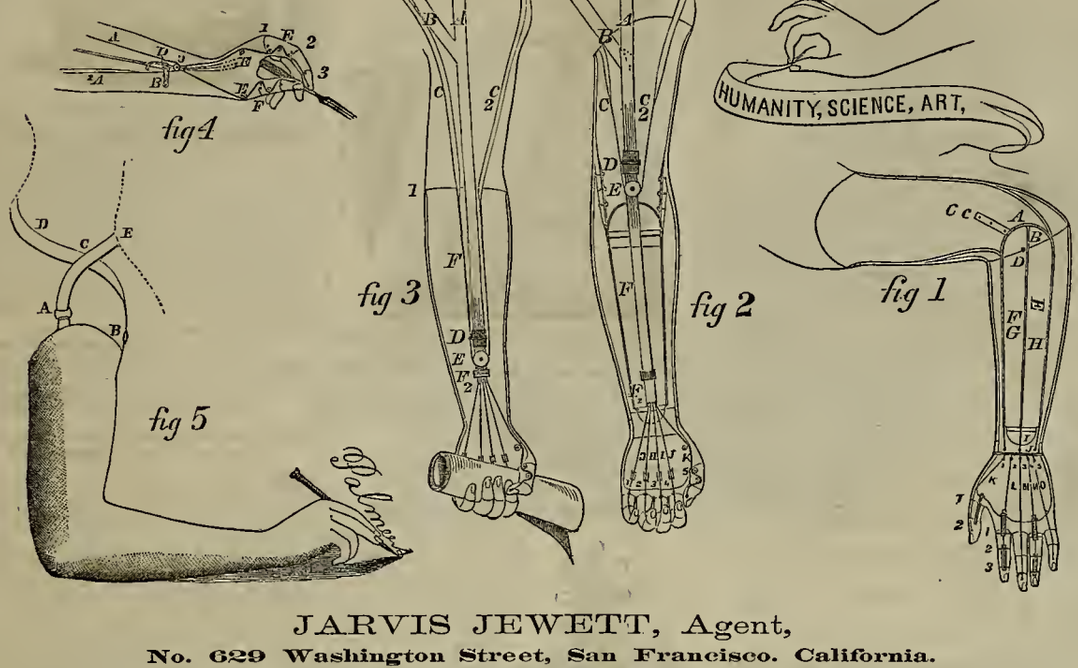
HANSCOM'S CRUSHERS,

Made in sizes suitable for Breaking Quartz for Batteries; Rock for macadamizing or concrete; Copper Ore for sacking, sampling, or concentrating; also, for crushing Quartz for Arastras and Orinders. The small sizes make a most efficient Crusher for Prospectors, and are arranged to be run by Hand, Horse, Water or Steam Power. For further information address W. W. HANSCOM.
Golden State Iron Works, San Francisco.

DO NOT BE DECEIVED.

PALMER'S PATENT ARTIFICIAL LEG AND ARM

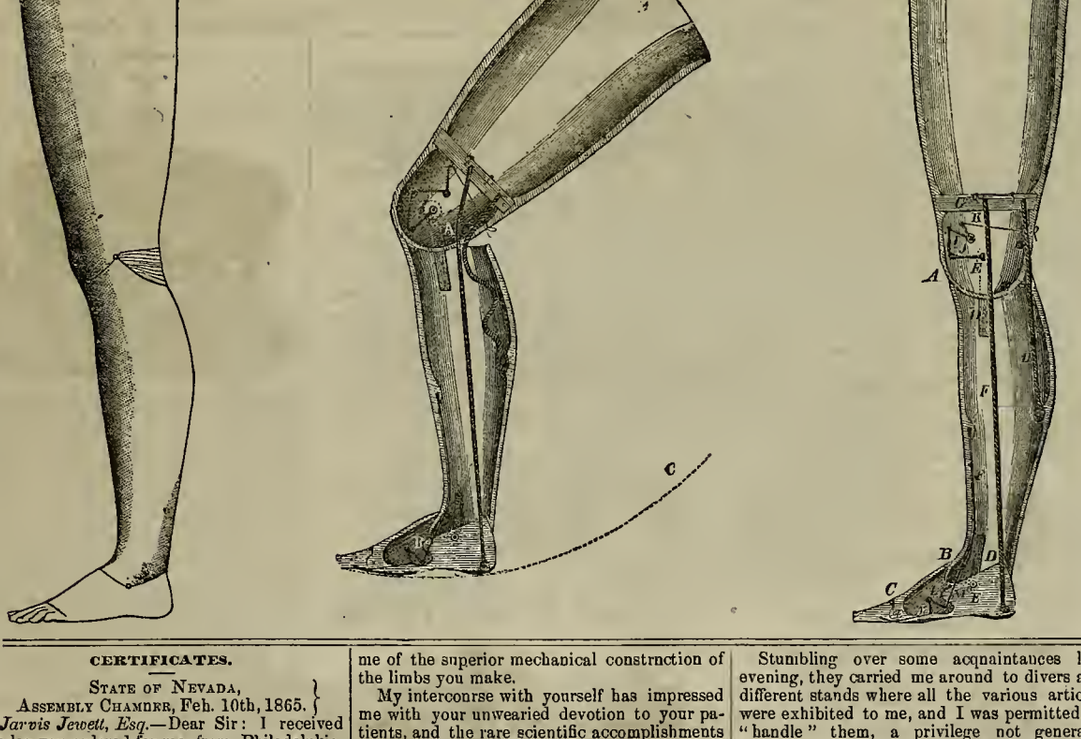
Are Unequalled by any in the World!



JARVIS JEWETT, Agent,

No. 629 Washington Street, San Francisco. California.

AT L. P. FISHER'S OFFICE.



CERTIFICATES.

STATE OF NEVADA,
ASSEMBLY CHAMBER, Feb. 10th, 1865.

Jarvis Jewett, Esq.—Dear Sir: I received the leg you ordered for me from Philadelphia. Thursday, since which time I have been wearing the same with satisfaction and delight. I am satisfied I could not have been better pleased and more exactly fitted, had I visited the factory myself. It is my intention to write a testimonial for Palmer's pamphlet, and as a voice from the Sierras, express the gratitude that I feel I owe him, in which I will make favorable meution of you.

Respectfully,

CHAUNCEY STEWART.

Opinion of a Military Hero—Maj-Gen. Daniel E. Sickles.

BREVOORT HOUSE, New York,
January 12, 1865.

SIR: I have great pleasure in bearing testimony to the excellence of the artificial leg you made for me. Although I have not worn it constantly, for reasons affecting my general health, I have used it long enough to convince me of the superior mechanical construction of the limbs you make.

My interconrse with yourself has impressed me with your unwearied devotion to your patients, and the rare scientific accomplishments you bring to their relief.

In placing this note at your disposal, I only perform a duty to my comrades who may, by the fortune of war, have occasion for your services.

I remain, dear sir, very respectfully,

D. E. SICKLES,
Major-General.

B. FRANK PALMER, LL.D.

FROM THE PRESS.

Jarvis Jewett, of 629 Washington street, exhibits a patent artificial leg, (Palmer's,) which is, for all practical purposes, almost equal to the natural article, and certainly superior thereto in some particulars. The arrangement of the ankle joint is claimed as superior to anything ever before attempted in the line, giving the wearer the ability to move about with a naturalness of motion not attained by any other invention.—*Alta, Sept. 9th.*

Stumbling over some acquaintances last evening, they carried me around to divers and different stands where all the various articles were exhibited to me, and I was permitted to "handle" them, a privilege not generally granted to visitors. I was especially interested in Palmer's patent leg; a better contrivance, it seems to me, to replace a lost limb, cannot be invented. I have often wondered how the things worked, and last evening succeeded in understanding it fully—there is a system of springs and wires which imitate the action of the natnral muscles very closely. Jarvis Jewett is the agent, and to his kindness I am indebted for my present understanding—the very article, by the way, which he furnishes. As I do not stand in need of a leg myself, and Cherrylips could scarcely be persuaded to submit to an amputation of her natural members in order to be provided with artificial ones, I trust that no one will think I am bidding for a leg in this notice.—*San Francisco Correspondent of the Sacramento Union, August 25th.*

About four hundred of these limbs were manufactured in Philadelphia, by Dr. Palmer, during the months of June and July last.

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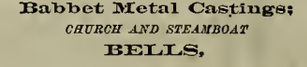

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IN THE PROBATE COURT, CITY AND COUNTY OF San Francisco, California. In the matter of the Estate of J. W. WREY alias J. H. CHURCHILL, deceased. Notice to Creditors—All persons are hereby notified, who have claims against the said deceased, or this estate, to present the same, with necessary vouchers, to the undersigned, at No. 604 Merchant street, San Francisco, within four months after the first publication of this notice (a summary administration of this estate having been ordered), else the same will be forever barred.

J. A. WOODSON,
Attorney for P. WARNER, Adm'r of said Estate,
604 Merchant-street.
San Francisco Aug. 26, 1865. 8v11-4w

COUNTY COURT, CITY AND COUNTY OF SAN FRANcisco.—In the matter of the application of the Palmyra Mill and Mining Company for an order of dissolution.

Notice is hereby given to all persons interested that the Palmyra Mill and Mining Company have this day filed their petition in the County Clerk's office of said City and County, praying for an order of dissolution, and in pursuance of an order of the Hon. Samuel Cowles, this day made, all persons interested are hereby notified to be and appear before the Hon. Samuel Cowles, County Judge of said city and county, at his chambers, in the City Hall, on MONDAY, the 2d day of October, 1865, at 9 o'clock, A. M., of that day, to show cause, if any they have, why the prayers of said petitioners should not be granted.

Witness my hand and seal of said Court, the 30th day of August, 1865.

{L.S.} WM. LOEWY, Clerk,
By WM. HARNEY, Dep. Clerk.

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DEWEY & CO., PUBLISHERS And Patent Solicitors.

SAN FRANCISCO, SATURDAY, OCTOBER 7, 1865.

VOLUME XI. Number 14.

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RAISING SUNKEN VESSELS.

Insurance companies and others interested, are often surprised to see vessels containing valuable cargoes go down unaccountably in the still waters of a harbor, and there lie tauntingly in view, but defying all attempts at raising them to the surface. Numerous plans have been devised to meet such emergencies, but generally without success, as in each case

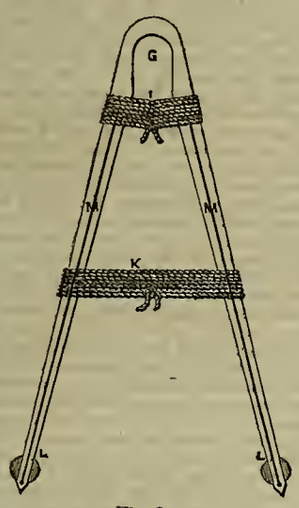

Fig. 3.

the engineer having charge of the job has trusted to circumstances and his own wit to suggest a plan of operations. Inventors are now, however, beginning to take the matter in hand and develop processes by which the engineer is enabled to go to work at once, without the trouble and perplexity of having to invent a new process for every ship to be raised.

We illustrate, to-day, a method for raising sunken ships, invented by Mr. Austin Z. Page, of Weaverville, Trinity county, in this State, and patented by him through the Mining and Scientific Press Patent Agency, on the 6th day of June, 1865.

Near the stem of the sunken vessel is moored a "camel," represented on the right of the engraving in Fig. 1, over the bow of which projects a strong spar, to which is attached the double crutch or fulcrum, represented in the same figure as in position astride of the bows of the sunken vessel, and represented by itself in Fig. 3, to show its construction. Two other hulls or "camels" are also moored near the stern of the sunken vessel, one on each side. On the decks of these "camels" are fixed capstans, by the aid of which a chain is drawn backward and forward under the bows of the sunken vessel, having been lowered and kept in position by means of the crutch already mentioned and guided in its see-saw motion by pulleys or guide wheels fixed at the bottom of the arms of the crutch. This saw-like motion is kept up by alternate action of the capstans on board the two camels represented on the left of Fig. 1, until the chain is firmly introduced under the keel of the sunken ship. Three chains are thus brought into position as shown in Fig. 2, when the two camels are brought up and placed on opposite sides alongside the sunken vessel. A framework made of heavy timbers placed at right angles to each other, is supported by jack-screws or hydrostatic presses on their decks. To this framework are attached the chains which have been introduced under the bottom of the vessel as above described. Power is then applied to the screws or presses supporting the fore and aft chains, which are raised as far as may be conveniently done, when the chain in the center is raised and "hauled taut" to support the sunken vessel, while the timbers fore and aft are lowered, and the chains shortened for a second lift, when the whole process is repeated as often as may be necessary to raise the vessel to the surface.

The principal novel feature of this invention is the method of introducing the chains under the keel of the vessel by means of power applied above the water, together with the lever and crutch for keeping them in position while being introduced. The use of the framework of crossed timbers for the attachment of the chains is also new, while the whole combination serves to give to a hitherto hazardous and uncertain process the regularity and precision of scientific engineering.

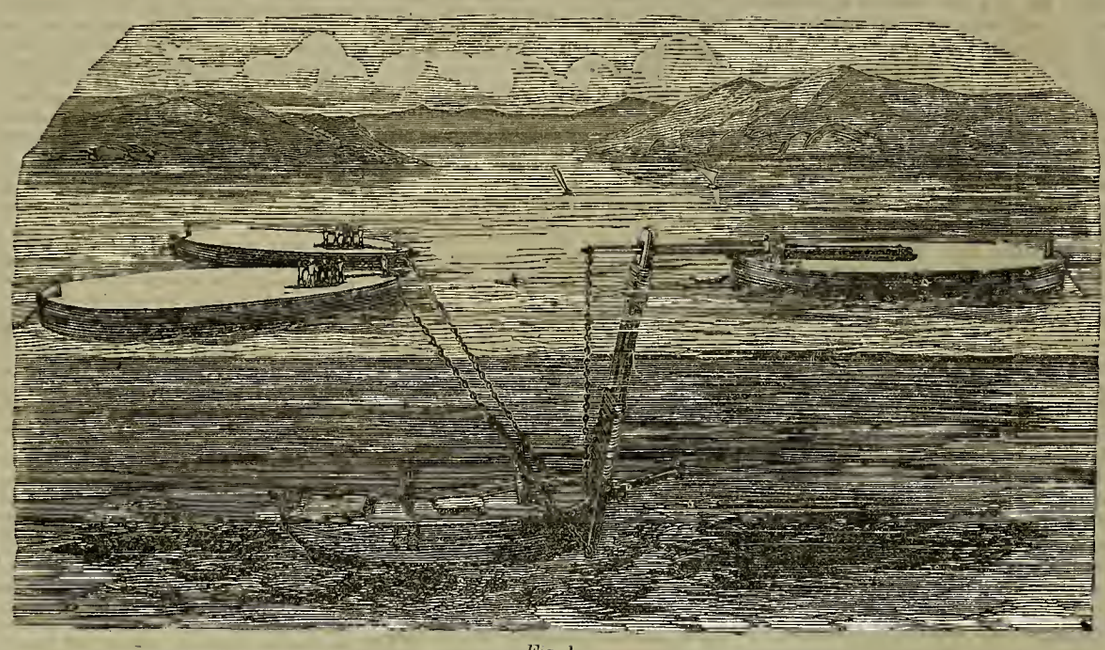

Fig. 1.

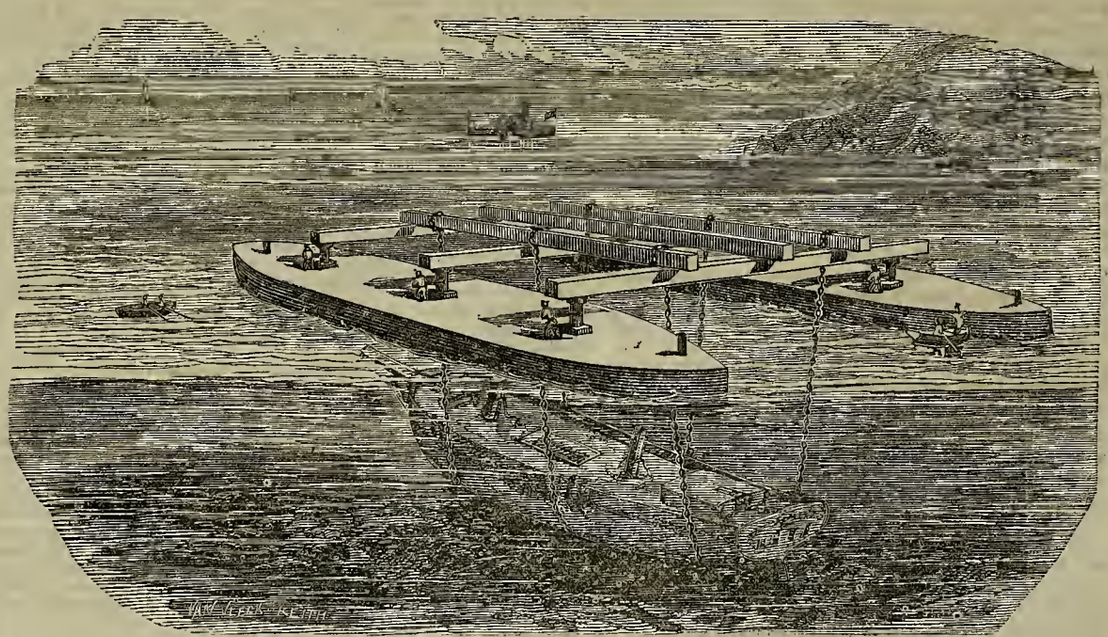

Fig. 2.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

A Visit to Mono Lakes—the Dead Sea of the West.

Messrs. Editors:—Taking occasion, while at Bodie, to see with my own eyes something of what had been represented to me by former visitors, in such a marvelous way as to impress me with the determination of not losing the opportunity of a visit to this "pictured" anomaly of nature, I mounted a goodly mustang and started with the rising sun, on a fine, clear September morning, from the Empire Hotel, Bodie, with a most invigorating and bracing breeze,—such as these heaven-ward altitudes afford. I made the ascent of the Summit, a point of elevation nine thousand feet above the sea-level, from whence a most distinct view may be had of the Lake, seemingly at your feet, while in reality twelve miles distant. Here, indeed, was a position from whence Nature's features in its most rugged and furrowed form could most distinctly be gazed into; for, scan the horizon where you would, the view was bounded by mountain ranges equally as precipitous as those on which you stood, with the Sierra Nevada as father of all, towered its snow-capped peaks and granite battlements in rugged grandeur far beyond them in etherial distance. To the west and south, as you glance from here, stretches this monster landmark of the region of gold and silver, with its "castle-peak" on the west and "Mount Dana" on the south, each respectively, according to Professor Whitney, 13,000 and 13,500 feet high. To the southeast the view is obstructed by the seared front of the White Mountain range, presenting in their calcareous whiteness, one of the most sterile aspects imaginable; not even a sage-brush disturbs the uniformity of outline and coloration of this exuberant out-crop of alkaline earth. To the east and northeast may be seen the Walker River mountains, with their sides sparsely covered with stunted pines; while to the north and northwest, the eye is lost in an eternal succession of foot-hills, rolliug aud undulating in a never-euding variety of altitude, as if doing a submissive homage to their snow-crowned monarch—which stands as if threatening them on their western horder. Yet, amidst all this sterile grandeur, Nature's bounteous hand seems stretched forth, presenting many of those life-giving "Edens," which are here not unfrequently to be found, like oases, in the desert, inviting man to partake of the sustenance they so bountifully afford, and which in these regions would seem to be uo less acceptable than the gold and silver she presents in the hills and mountains which surround them. Many of these can be viewed from here, which, under the never-flagging care of the industrious ranchman, produce abundantly of the necessaries of life for the miners and their stock.

Having spent some time in the contemplation of this vast and instructive panorama of nature, and being much impressed with the littleness of man's puny efforts, in attempting to produce the sublime and the grand, as compared with the astounding productions of naturc, I started once more for the lake. After "drifting" about in search of the most practicable route by which to make the descent, I at last came across an Indian trail, which led me into "Quimby Cañon," thence into "Cottonwood Cañon," and followed the latter in its course dowu and through mountain gorges for a distance of about seven miles, when I found myself on a plateau of land—alkali and sage brush. In crossing this plateau to the waters of the lake, several of those rings or benches are met with, by which the lake is encircled on its northern and eastern sides, graduated in their hight from one hundred feet, being the hight of those farthest off, to five or six feet in those nearer the lake. Their distance apart is graduated in like manner as they approach the water's edge. The water-marks of alkaline deposit, and other sedimentary matter, clearly shows the retrocession of these waters, and even now there is the clearest evidence possible, all around the lake shore, to prove that it is receding at a rapid rate as time rolls on. The present extent of this lake, according to my informant—who, by the way, ought to know, for he was a mariner "bold and brave" on the waters for some two years—is about thirty miles lrom northwest to southeast, by nbout twelve miles across. The first thing that strikes the visitor on approaching it from the point of observation which I took, is its islands, and the steam ascending therefrom; for on one of these islands are a number of boiling springs, which emit a continual flow of intensely hot water and steam, while right on the edge of one of these boiling caldrous is a most plentiful flow of the purest spring water, ice cold. On these islands are innumerable traces of volcanic disturbance. On every side you turn are to be seen extinct craters, with the lava aud other igneous remains lying all around them in regular curvature form, many of them retaining even to this day the identical forms assumed by them when, on being belched forth from Pluto's crucible, they flowed over the margin of the already solidified crater, falling beyond which they formed in cooling some of the most beautiful figures imaginable, while others took on themselves every shape belonging to the crystalline family. A few of these curiosities I have forwarded to the Press. There are to be found, all over these islands, some of the most beautilul calcareous and alkaline incrustations, which form on the surface of everything that the water of either the lake or that emitted from the hot springs happens to come in contact with. These would certainly be a great acquisition to any cabiuet, but from their fragile texture are difficult of transportation.

The waters of this remarkable lake are so strongly impregnated with alkali that to remain therein a few minutes would he sufficient to take the skin off; even to wash the hands therein causes the skin to shrivel up, unless immediately rinsed in fresh water. There are no fishes of any kind whatever in this water, nor are they to be found in the streams that empty into it, even those streams issuing from the Sierras emptying into this lake. These streams, though flowing from a great hight, and for several miles, are entirely barren of fish; while all other mountain streams in this region abound in piscatorial productions. But it will not do to say that life cannot be sustained in this alkaline solution, as I uever have beheld a body of water of any kind so full of animate matter, consisting of myriads upon myriads of aquatic insects and animaculæ, which literally fill the water. You first find them as a larva floating on the surface, where they are no doubt deposited by a peculiar sort of black fly, which is also equally numerous; next they are seen in a more advanced stage of perfection, appearing lower down in the water and on the bottom, in the form of animaculæ. Still more advanced, they appenr moving in the water in the shape of a small grub-worm, swimming around after the fashion of little fishes; but the last and by no means pleasantest form in which we find them, is in little carcasses piled up on the shore, whcre they are driven by storms, washed and blown into mounds nud ridges all around the margin of the lake, to a thickness of from one to three feet high, exhaling nt all times a very unpleasant odor, aud completely covered with these same flies, which seem to be either feeding on the decomposing mass, or depositing their ova. There must be *millions of tons* of the carcasses of these singular insects deposited around the lake shore. When you consider the multiplicity of these, in their different stages of ndvancement, with the flies innumerable that float on the surface, you can form some idea of the condition of the water of this lake—a bottle of which, with the larva, animaculæ, iusect, and fly, I send you. On the surface of this lake are innumerable fowls, chiefly of the wild-duck species; also immeuse flocks of gulls, geese, swan, and brant, visit this "alkaline bath" in the wintcr, remaining till spring, when they deposit their eggs on the islands in the lake, without attending to them more. A most plentilul supply of this article of food is afforded to the few settlers and miners residing in the vicinity of Mono. Many of the ducks and fowl that fall a prey to the sportsman's unerring rifle are found to have the webs of their feet completely eaten off by the corrosive action of the water.

Though there are numerous large streams, and some deserving the name of rivers, flowing into this exhaustive receptacle, besides hundreds of fresh water springs gushing up within it from the bowels of the earth, there cannot be traced a single visible outlet. Another strange peculiarity of the lake is, that in time of greatest floods, such as thunder-storms and melting snow in the Sierra must produce, when it wonld at times—as letter-writers from here describe it—"seem as if the floodgates of the heavens were thrown open," from the immense volumes of water that tumble into the lake from the surrounding mountains, there never has been noticed the least increase in its volume or elevation at its margin. Though seemingly well sheltered with the immense succession of mountain ranges that encircle it, yet rarely indeed can a more boisterous sheet of water be found. Storms and hurricanes prevail here for full nine months of the year; not regular or continuous during this period, by any means, but coming in the most fitful and sudden manner, without, at times, the least admonition to the adventurous navigator, thereby rendering a trip for pleasure anything but pleasant to those who might desire the enjoyment of that luxury over the brackish waters of this twin sister to its oriental namesake.

At the southern extremity of the lake stand the remains of three very remarkable volcanos. Reaching to a hight of some 1,500 feet, are three cone shaped mounds, at the top of which are several vacant craters, presenting cavities of variable depths, some of which cannot be sounded; while others are found to be only fifty to two hundred feet deep, and from thirty to fifty feet in diameter, from which once belched forth immense volumes of molten matter, such as is now strown all around from summit to base of these vast accumulations from nature's internal furnace.

In addition to these, and also those mentioned in speaking of the islands, are numerous others along the margin of the lake, as also far back upon the plateau surrounding it, showing plainly that the entire region encompassing this lake, and over which it extended itself, was once subjected to the most remarkable disturbances from volcanic action. Yet, repulsive as the general aspect of this wondrous and romantic region would seem to be, it appears to possess attractions sufficient to induce man to take up his abode here. The arable lands around Mono Lake are few indeed, yet such as are found are taken up and cultivated to good advantage. There is also a saw-mill here, from which is procured all the lumber required for the surrounding mining camps. An inexhaustible supply of the finest timber can be had all along the western border of the lake, where it washes the slopes and declivities of the Sierra.

As night approached I began to think of winding my way back; when, after once more crossing over these mounds of fetid insect carcasses, and passing through the clouds of sluggish black flies, that reluctantly rise in swarms as you pass, I retraced my steps for purer air, seeking to regain the rugged pathway by which I came. After securing my mustang and having my sacks of relics and specimens snugly strapped behind the saddle, and myself once more astride, I soon found myself pursuing the trail which—perhaps in ages past—had been marked out by "warrior Piutes," little dreaming then that "pale-faces" would one day disturb their quiet haunts, and interrupt their peaceful visits over this same rugged trail to Mono Lake, where they regularly went, from other sections of the country, to procure a supply of this luscious article of food—these same insects I have just been describing. Even to this day, the few Indians remaining around here collect these worms at the lake, dry them in the sun, roll them between stones with a flat surface, when a white kernel rolls out, which they mix with flour of dried roots and wild rye, as an article of food.

Just as the parting sun was about to withdraw his golden rays from the mountain peaks, I attained, after much hard climbing up the devious pathway, the eminence from whence I took the dive at early morning, to peep into nature's wondrous ways, and from whence I now again reviewed the landscape stretched before me, taking a last—at least for the present—wondrous look over the surface of this strange sheet of water; which done, I turned homeward, leaving behind "Lake Mono"—or the Dead Sea of the west—and carrying in my mind one more additional proof of the reflection, that the more we see and study the handiwork of the Omnipotent, the more shall we be impressed with a sense of our own inferiority and entire dependence.

J. R. M.

If one should give me a dish of sand, and tell me there were particles of iron in it, I might look for them with my eyes, and search for them with my clumsy fingers, and be unable to detect them; but let me take a magnet and sweep through it, and how would it draw to itself the most invisible particles by the mere power of attraction. The unthankful heart, like my finger in the sand, discovers no mercies; but let the thankful heart sweep through the day, as the magnet finds the iron, so it will find in every hour some heavenly blessings; only the iron in God's sand is gold. *O. W. Holmes.*

Wood for the San Francisco Market. It is estimated that within six miles of either side of the Mokelumne, there is not less than 1,000,000 cords of wood now standing which must find its market in San Francisco, leaving an equal or greater amount for home consumption. Bordering and accessible to the Mokelumne there are three hundred square miles of wood lands, containing, by careful estimate, not less than 5,000,000 cords.

[Written for the Mining and Scientific Press.]

Summit City—Excelsior Mines.

Messrs. Editors:—Since I last wrote you from this place, I have taken a general tour through this newly discovered district, for the purpose of examining what has caused so great an exodus hither. As you might suppose from my last, my first visit was to the "Enterprise," the rock of which has already been tested by mill process; and at the depth of twenty feet the average yield has been upwards of $160 per ton, and that in a Virginia City mill, which certainly is not so well adapted to crushing and separating gold rock as those of Grass Valley. There are seven men at work blasting and sinking a shaft on the Enterprise, and the rock looks rich. At the depth of twenty-five feet the lode seems to be about five feet wide, the general course being nearly east and west. I next visited, successively, the Mammoth, George Washington, Crescent, Wisconsin, Alabama, and many others, on each of which I found parties at work sinking shafts. Free gold, perceptible to the naked eye, is seen in nearly every claim I examined. The Wisconsin and Alabama particularly attracted my attention; from the former they have been crushing rock in a common mortar, making from $10 to $20 per day to the hand. At many other claims you will find them at work and I am satisfied, from experiment, that from $5 to $10 per day can be very generally obtained by the simple hand mortar process—I will send you specimens from different ledges by which you can judge the quality of the rock. Within the last few days a new excitement has sprung up here by the discovery of an immense lode which seems to throw all others in the shade. This was made by P. Taylor, Esq., a well known scientific gentlemen of Virginia City, who has been in the employment of the Gould & Curry Co., and who appears to be well acquainted with the geological formation of our mines. I will give you his own views of this discovery.

"This ledge, named the White Mountain, crosses the hill south of the Enterprise claim, dividing the granite formation which forms the foot wall, and the shale formation which forms the hanging wall. The vein runs nearly a due north and south course, and has been traced by me for about five miles. It is at least fifty feet wide, throwing off innumerable spurs, and seems to be the most prominent vein of the country; all the others having a direct bearing towards it." The first claim taken up on this lode by Mr. Taylor he has named the White Mountain and Madison Company; it contains 1,000 feet and is owned by Mr. Chas. L. Strong, Superintendent of the Gould & Curry Co., Mr. S. H. Mathers, Taylor, and others. There are also the Rothchild, Yosemite Company, containing 1,500 feet, and the "Norfolk," Lodi Company, containing 1,300 feet, owned by Mr. B. Fenton & Co. Every foot of this ledge, so far as I have observed, seems to be claimed. A scientific assay has been made of the rock, which has shown $264 to the ton, at the depth of about eight feet. Work has been commenced on almost every portion of it vigorously. I would also mention the Kentucky ledge, located on the south side of Old Man Mountain, containing 1,400 feet, and having a lode of fourteen feet in width. Specimens I examined show considerable free gold. Also the New York Ledge, New York Company, and extension Cræsus Company, both owned by Messrs. F. B. Goddard and B. Fenton, of New York city, who are operating extensively in this district as a New York company. There are numerous others I would mention, but want of space prevents in a letter which I fear is already too long.

When it is known that you can leave San Francisco and reach these mines in one day, by the Dutch Flat route, and that in less than a year the Central Pacific Railroad will be at their very door, over which the trip can be made in half that time, giving every facility of making transportatiou a trifle, with abundance of wood and water, to say nothing of the beauty and salubrity of this climate, it would seem to me that if our San Francisco capitalists would turn their eyes nearer home than Idaho or other points where the *furore* of steamsh p companies points, and where "distance lends enchantment to the view," this newly-discovered El Dorado would be sought, and good investments made. These valuable mines will soon pass into the hands of Eastern capitalists, if our own moneyed men do not look after it quickly. L.

Summit City, Aug. 30, 1865.

A Massachusetts man has invented a machine that will make 40,000 bricks per day.

MARKLEVILLE CORRESPONDENCE.

Messrs. Editors:—Our mining interests seem to be looking up a little, and we can begin to see our prospects in the future. The Pioneer quartz mill at this place, which has been lying still for several months, has again started up, and is now busily engaged in crushing and working rock from the I. X. L., at Silver Mountain. The rock from this claim not only looks well, but is rich in gold and silver, and pays exceedingly well. The last run by the mill at Silver Mountain, before it broke down, worked about $80 per ton, and the tailings from the same run yielded more than twice that amount. The I. X. L. is a good claim, and no mistake. At the point from which this rock was taken it is only about forty feet deep.

The Buckeye, No. 1, near the I. X. L., (and by many thought to be the same ledge,) have reached their ledge, and found excellent rock, only about fifteen feet below the surface. The ledge was struck only a few days ago, and up to the last news from there they had not get through the ledge. It is thought that rock from this claim will pay at the present depth.

The Lady Franklin Company are sinking a shaft 4½ by 9 feet on their ledge, and are also taking out pay rock. This claim is the farthest up the cañon, and as yet there is no road to their claim. The company are expecting to erect machinery on the claim before going much deeper.

The Buckeye, No. 2, have also commenced work upon their claim. This is on the Lady Franklin Ledge, and the company expect to reach pay rock before winter.

The Morning Star Company are now preparing to ship their rock to Swansea, England. It will cost about $35 per ton to deliver it in San Francisco, where they will receive an advance of $75 per ton, and then wait for the returns from England for the balance. So by this means, if they should get no more, they are getting about $40 per ton for their ore at the mine, which is not bad to take.

Several other mining companies are pushing ahead with their works, and before another year rolls around, we are going to have better times. I verily believe that this region is destined to eclipse the best mining regions of Nevada.

The lumbering business has grown to be of great importance in this section of the country. It is estimated that fourteen millions of feet of lumber, including timbers and fire-wood, have been run down the Carson this year. It is certainly shameful to cut and carry off to other markets the timber from our own mines, for the time will come when we shall want every stick of timber within the reach of our mines for our own use. A drive of about 1,000 cords of fire-wood, besides some 150,000 feet of sawed timbers, destined for Empire City, is now being run out of the Middle Fork of the Carson, which passes through this city. The citizens of the town have been out in crowds to-day to see the drive; and I can assure you that it is a sight worth seeing. To see several hundred cords of wood, of all sizes and shapes, all jammed and crammed, and tumbled in together, as thick as it can float, and traveling at the rate of about ten miles an hour, bumping over the huge boulders in the river bed, forming jams and damming up the stream; then breaking loose, and running like a horde of wild buffaloes, or like a school of snorting porpoises, while the stream is raging from the dams just let off, is no ordinary sight. The river is getting very low to make the driving good; but to help the business, large dams are built, with flood-gates, and while the dams are collecting the water, the drivers are engaged at breaking jams, and getting everything ready for the flood, and when the gates are hoisted, and the water reaches the drive, the folks like to see the wood "git."

Respectfully yours,

Sirrom.

Markleville, August 5, 1865.

Snowy House Fronts.—It is for the love of show, and not for the love of beauty, that so much of our town architecture is bedizened with profuse and tasteless ornament. It is put there for the sake of respectability—an advertisement, perhaps; for any reason except that it is really loved and appreciated. It is put outside, not inside. The owner of the house takes no delight in seeing it. He only sets it up as a sign to the world of his own wealth and importance; very often he puts it all up front, none at the sides or back; for his opulence may be only sham opulence, and he wants to produce the greatest possible effect with the smallest expenditure.—*Building News.*

Mechanical.

STOWE'S PATENT CHAMBER DRILL.

We give, in an advertisement, which may be found in another column, a representation of Stowe's Patent Chamber Drill, for blasting purposes, designed for use in shafts, tunnels, etc. By the use of this drill a chamber is readily excavated, directly in the bottom of the hole, by means of which a lifting force is given to the explosion, so as to produce from four to six times as much effect as can be obtained from a charge deposited in the ordinary straight hole. By an examination of the annexed representation, it will be perceived that the force of the cutters is direct and downwards, similar to a direct acting drill. The only wear upon this drill is upon the cutters, which are so constructed and adjusted as to stand almost as much force as a regular drill, and when worn out, they can be replaced for $2.50 a set. A 1⅜ inch hole may be chambered out to 3½ inches in diameter, in less time than two inches can be driven down in a regular drill hole 1⅜ inches in diameter; while the chamber of a 1⅜ inch hole gives a much greater blasting force than a straight hole drilled the entire distance 3½ inches in diameter. By the use of the chamber, six times the blasting surface is given to a straight hole, in addition to its lifting force. This drill can be worked with a hammer, like an ordinary drill, or by hand, as a churn drill. One set of cutters will chamber out from 50 to 100 holes, according to the hardness of the rock. In sinking shafts and tunnels by the use of this drill, it is estimated that the cost of the labor and powder will be reduced to about one quarter the expense of the same work done without chambering. The late State Fair in Sacramento awarded to this drill the first premium, for the following reasons, as stated by the Committee: "1st, for the simplicity of construction; 2d, for durability; and 3d, for strength of drill.

The importance of some improvement of this kind, for reducing the expense of sinking shafts and tunnels, is well worthy the especial attention of the mining public, and we would particularly call the attention of miners to the advantages claimed to be derivable in the use of this drill.

Mr. Stowe is also the inventor of an expanding drill, especially designed for use in sinking artesian and oil wells, and for which he received from the State Fair a special premium. By the use of this drill, a perfectly straight bore can be made from one quarter to two inches longer than the inside of the tubing which may be used. It can be attached to any common drill at an expense of from $25 to $50. The many advantages which may be derived from the use of such an instrument, in boring oil wells, must be apparent to all acquainted with such work.

New Machinery for Placer Diggings.—The Folsom *Telegraph*, in a late number, speaks as follows of a new process for extracting gold from placer diggings:

Mr. Hodge, the gentleman who some time since discovered that the drift sand on the American river and the red dirt of the hills of this vicinity would pay well for working, has arrived with his patent amalgamator, which will be placed in position at Quigley's steam works, for the purpose of testing its adaptability to work the gold-bearing dirt in this vicinity. The gentleman has no doubt of the entire success of his invention creating a revolution in mining operations in this neighborhood; not long since he tried a ton of red dirt at San Francisco, with his amalgamator, and realized from it the sum of sixty dollars. There are millions of tons of the same dirt in this vicinity. The profit and feasibility of the gentleman's invention, however, will shortly be determined. The machinery will be in position, and in running order in about ten days, as we are informed, when we shall endeavor to give a description of this new system of mining.

In the last number of the *Telegraph* we notice that the machinery is now in full operation. We should be pleased to receive a description of this new machinery and learn how it succeeds.

Another California Invented Breech Loading Cannon.

In the Mining and Scientific Press of June 3d, we gave quite a full description of a breech loading cannon which had been recently invented by Mr. Langshore, of Mokelumne Hill, and which was pronounced by competent judges quite an effective and formidable weapon. We have now to record still another invention in the same line made by Mr. T. J. Crannier, of Vallecito. A correspondent of the San Andreas *Register* has witnessed the operation of this new instrument of war, of which he speaks as follows:

We had the pleasure of witnessing the shooting abilities of this most extraordinary gun, and are convinced that it will discharge, with all the force and accuracy of good rifles, the incredible number of six hundred balls per minute. The entire machinery is encased with a sheet-iron box. The charges are conveyed to the cylinder by means of ingenious machinery placed above the cylinder. The cylinder is six-and-a-half inches long, and nine inches in diameter, containing eighty-four chambers. On the right hand end of the cylinder there is placed a rim with notches thereon similar to those in the cylinder of Colt's pistols. On the same end of the cylinder there are twenty-eight tubes. Each tube discharges one volley of these charges, simultaneously. The cylinder rests in a horizontal position, having a shaft passing through the center, which shaft rests on bearings on each end. Behind the cylinder is placed the machinery for revolving, loading, capping and firing it, all of which works with the same ease and perfection as Colt's revolver, with the additional improvement of loading and capping. The barrels, three in number, are placed in a horizontal position in front of the cylinder, fitting the same accurately and receiving the charges from the chambers in the cylinders in the same manner as the barrel of Colt's pistols. The entire machinery and construction is so accurately arranged that any one who can turn a grind-stone can manage the gun. The correspondent says it is the inventor's intention to give a public exhibition of the power possessed by the model, in a short time, either at Murphys or Vallecito.

How to make Good Iron.—The importance of employing a flux thoroughly suited to the iron ore under treatment has been carefully pointed out by Professor Fleury, of New York, who remarks that the flux serves a threefold purpose. Firstly, it facilitates the elimination of the iron by forming easily fusible compounds with the silica and alumina in the ore; secondly, it protects the iron from being oxidised again while passing the blast down the hearth; and, thirdly, it serves to deprive the iron of most of its impurities, such as silicon, phosphorous, sulphur, arsenic, &c. The quantity and quality of the flux should be adapted to the kind of ore used. Burnt lime gives a great saving of fuel and an excellent quality of iron with some ores, while with others common limestone and shale, free from quartz veins, give equally good results. The advantage of an occasional chemical analysis of the ores and fluxes used cannot be too much recommended to the ironmaster's attention. Professor Fleury has seen instances, and he is not, probably, the only observer of them, where ironmasters were entirely ignorant of the nature of the flux they used. He saw furnaces worked with the most refractory magnesian limestone that could be found, using at least one-third too much, and, of course, delivering a most excellent quality of *red and cold short pig-iron*. To his question as to the reason of their inferior quality of iron, they answered by accusing the ore; a bad boy, they said, will never make a good man. They little dreamed that by using a better flux, and in much smaller quantity, their iron could be made of good quality and at much less cost.

Gold-Saving Machine in Colorado.—The Black Hawk *Journal* thus mentions a new apparatus for saving gold:

We hear of a new-fangled arastra on Mill Creek. Working on surface quartz, it gets $300 per cord where a stamp-mill only gets $80. Half a ton of stuff is put in at night and the same in the morning, and running by water—that is all the attention it requires. It is built in an octagonal form, and in each angle beyond the circuit made by the mullers is a quicksilver riffle, where the gold is caught. In every view of the case, this ought to be termed a neat little arrangement. No quicksilver is lost or wasted, it does not cut nor flour, not coming in contact with the grinding surfaces at all. We should like to see Clear Creek lined with such machines, and there is no reason why it should not be. Their construction and use are cheap, and they do the work handsomely. Mr. Blackburn, the man who is running the one of which we speak, and who is an experienced mill-man and engineer, says that he has been equally successful in treating ore as quartz. He has been running steadily for almost six weeks.

Preventing Oxidation of Iron and Steel.

According to the patent of Mr. J. B. Chambeyron, of Paris, it is proposed to prevent the oxidation of iron and steel by the forced incorporation of volatile metals having little affinity for oxygen. Tinning, zincing, and leading only give incomplete results, and Mr. Chambeyron has discovered that it is only by incorporating into the iron itself, and to a certain depth, a metal or an alloy little affected by the action of oxygen, and considered practically inoxidisable, that iron and steel can be protected from oxidation in sea and other acidulated waters. The means he employs are to introduce zinc alone in the state of vapour into the iron or steel when they are only to be exposed to the contact of oxygen, and to a volatile alloy or compound composed of tin, lead, and zinc in suitable proportions. The proportions are about one fifth of lead, one-fifth of tin, one-fifth of zinc, but they may vary when the iron is to remain in corrosive waters. A high temperature being necessary to vaporise the metals to be incorporated. The operation is performed in cementing chambers. To each of the cast-iron heads of the upper retorts is adapted a tube, the lower extremity of which is immersed in the retort, and the upper extremity is terminated by a funnel, which has underneath a spheroidal reservoir, furnished above and underneath with a tap for shutting off communication either with the retorts or with the interior of the reservoir. The metals to be incorporated are poured in a state of fusion into this funnel, whence they fall into the retort, the high temperature of which converts them very quickly into vapour. In case the pressure obtained by the vapour is not strong enough to produce the incorporation, he causes a part of the gas to flow from the gasometer, where it is held in reserve, into the retorts. When the metallic vapours have been incorporated in the pores of the iron and steel they will be condensed there by a lowering of the temperature, which is preceded by the introduction of a certain quantity of borax, which by its volatilisation in the apparatus will fix the incorporated metals. The retorts will then be opened, after having ascertained by means of a pyrometer that the temperature has fallen below that at which the volatilisation of the most volatile metal takes place.

Chain Factory.—The Machias *Union* says that Boston capitalists contemplate establishing a factory for the manufacture of vessels' chains, wire and wire rigging, in one of the Eastern towns of Maine; and efforts are being made to have a part of the stock taken there and secure the location of the factory at Machias. The capital of the proposed company will be $300,000, and the works will occupy several large buildings, besides a considerable area for wharves, yards, etc. Steam power is to be used, and from 100 to 200 workmen will be employed. It is stated that there is at present no establishment in this country where wire rigging is manufactured. We derive our supply chiefly from England.

The Growth of Courage on the Battle Field.—A reasoning man, with a love of adventure, at first feels alarmed; and his impulse is to run away; and if he has no motive to stand he probably does run. But at each additional exposure he grows less timid, and after hearing canister and grape about his ears a dozen times, begins to think he is not destined to be hurt. He still feels rather uneasy, perhaps; but the danger acquires a sort of fascination; and though he does not wish to be hit he likes to have narrow escapes, and so voluntarily places himself in a position where he can incur more risk. After a little he begins to reason the matter, and reflect on the doctrine of probabilities, and how much powder and lead is necessarily wasted before any man is killed or wounded. Why should he be, he thinks, so much more unlucky than many other people.

So reasoning, he soon can bear the whizzing of bullets with a tolerable degree of equanimity, though he involuntarily dodges or tries to dodge, the cannon balls and shell that goes howling about his immediate neighborhood. In the afternoon he is quite a different creature from what he was in the morning, and unwittingly smiles to see a man betray the same trepidation which he himself exhibited only a few hours before. The more he is exposed to fire, the better he can bear it, and the timid being of to-day becomes the hero of to-morrow; and he who runs from danger on his first battle-field, may run into it on the next, and court the hazard once so dreaded. Thus courage, as it is styled, is little more, with most men, than custom; and they soon learn to despise what is threatened without causing them harm.

Iron Ore in Reese River.—Many of the mining districts in Reese River, abound in iron ore of very superior quality. In the Mammoth district—which, like most of the other districts, has been only partially prospected—large beds or ledges of this ore have been found.

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, September 30.

48 shs Ophir at 330 per foot.
12 shs Ophir at 340 per share, b 30.
26 shs Potosi at 480@470 per foot.
2 shs Potosi at 470 per foot, s 5.
125 shs Hale & Norcross at 750@590 per sh.
2 shs Hale & Norcross at 580 per foot, s 30.
4 shs Hale & Norcross at 595 per foot, b 3.
20 shs Hale & Norcross at 730@500, s 3.
8 shs Yellow Jacket at 1350 per foot.
15 shs Overman at 170@167½ per share.
3 shs Overman at 168 per foot, s 10.
3 shs Overman at 170 per share, b 30.
20 shs Crown Point at 1130@1145 per foot.
83 shs Chollar at 490@495 per foot.
4 shs Chollar at 490 per foot, s 3.
20 shs Chollar at 495 per foot, b 5.
3 shs Belcher at 860 per foot.
160 shs Daney at 36½ per share.
8 shs Alpha, G. H., at 2100 per foot, b 10.
32 shs Imperial at 230@231 per share.
15 shs Imperial at 230 per share, s 3.
10 shs Imderial at 230 per share, s 5.
40 shs Caledonia Tunnel at 8 per share.
115 shs Exchequer at 26@25 per shnre.
40 shs Empire M & M Co. at 320@235, s 30.
9 shs Empire M & M Co. at 263@237½
10 shs Empire M. & M. Co. at 237½, b 30.
95 shs Sierra Nevada at 16 per share.
80 shs Lady Bryan at 6 per share.
2 shs Confidence at 118 per share.
8 shs Bullion at 125 per share.
Amount of sales.....$134,725 00

Monday, October 2.

8 shs Gould & Curry at 1300 per foot, b 3.
28 shs Chollar at 510 per foot.
24 shs Chollar at 510 per foot, b 5.
24 shs Chollar at 510 per foot, b 3.
28 shs Chollar at 510 per foot, s 3.
8 shs Chollar at 512½ per foot.
12 shs Chollar nt 509 per foot.
13 shs Chollar at 507½ per foot.
76 shs Potosi at 490 per foot.
4 shs Potosi at 490 per foot, b 5.
4 shs Potosi at 490 per foot, s 3.
4 shs Potosi at 492½ per foot, b 5.
2 shs Potosi nt 492½ per foot.
10 shs Potosi at 492½ per foot, s 5.
3 shs Yellow Jacket at 1340 per foot.
1 sh Yellow Jacket at 1340 per foot, r w.
2 shs Yellow Jacket at 1330 per foot, r w.
3 shs Yellow Jacket at 1325 per foot.
2 shs Yellow Jacket at 1325 per foot, r w.
1 sh Yellow Jacket at 1325 per foot. b 3.
60 shs Daney at 36 per foot.
12 shs Hale & Norcross at 775 per foot.
2 shs Hale & Norcross at 730 per foot, b 10.
2 shs Hale & Norcross at 775 per foot, s 3.
2 shs Hale & Norcross at 800 per foot, b 30.
14 shs Hale & Norcross at 740 per foot, s 30.
6 shs Hale & Norcross at 760 per foot.
2 shs Hale & Norcross at 760 per foot, s 3.
8 shs Hale & Norcross at 790 per foot, s 30.
10 shs Hale & Norcross at 750 per foot, s 30.
4½ shs Belcher at 850 per foot,
5 shs Imperial at 228 per share.
5 shs Imperial at 227 per share.
5 shs Imperial at 225 per share, r w.
5 shs Imperial at 222 per share.
5 shs Imperial at 220 per sbare.
30 shs Imperial at 223 per share, r w.
5 shs Imperial at 223 per share, b 3.
5 shs Imperial at 223 per share.
5 shs Imperial at 224 per share, b 5.
5 shs Imperial at 224 per sbare.
5 shs Imperial at 223½ per share.
5 shs Imperial at 224½ per share.
10 shs Bullion at 130 per share.
1 sh Empire M & M Co. at 230 per shore.
1 sh Empire M & M Co. at 230 per sh, s 6
5 shs Empire M & M Co. at 232 per share.
5 shs Empire M & M Co, 235 per sh, b 30.
1 sh Empire M & M Co. nt 231 per share.
6 shs Empire M. & M. Co. at 235 per sbare.
8 shs Empire M & M Co. at 235 per sh, s 10.
10 shs Empire M & M Co. at 236 per sh, s 30
10 shs Empire M & M Co. at 240 per sh, b 30.
10 shs Empire Mill & M. Co. at 236, r w.
10 shs Confidence at 117 per share.
1 sh Confidence at 115 per share.
45 shs Sierra Nevada at 15 per share.
40 shs Sierra Nevada at 16 per sharo, s 3.
3 shs Cal. Steam Nav. Co. at 76 per cent.
160 shs Spring Valley W Co at 61 per cent.

AFTERNOON SESSION.

40 shs Chollar at 507½ per foot.
shs Chollar at 510 per foot.
shs Hale & Norcross a 785 por foot, s 3.
shs Hale & Norcross at 790 per foot, s 3.
sHale & Norcross at 790 per foot.
shs Hale & Norcross at 790 per foot, r w.
28 shs Hale & Norcross at 800 per foot.
2 shs Hale & Norcross at 792½ per foot.
34 shs Potosi at 490 per foot.
2 shs Potosi at 487½ per share.
2 shs Yellow Jacket at 1320 per foot.
1 sh Yellow Jacket at 1315 per foot.
2 shs Yellow Jacket at 1310 per foot, r w.
2 shs Yellow Jacket at 1310 per foot.
1 sh Yellow Jacket at 1300 per foot, s 10.
1 sh Yellow Jacket at 1300 per foot, s 30.
8 shs Imperial at 223 per share.
23 shs Imperial at 224 per sharo.
18 shs Imperial at 223½ per share.
5 shs Imperial at 224 per sharo, r w.
5 shs Imperial at 222 per share, s 10.
35 shs Imperial at 223 per share, b 3.
13 shs Imperial at 223½ per share.
32 shs Imperial at 222 per share.
10 shs Imperial at 225 per share, b 5.
10 shs Imperial at 223 per sharo, s 3.
5 shs Imperial nt 220 per sharo, s 10.
5 shs Bullion at 133½ per share.
5 shs Bullion at 135 per sharo, s 3.
200 shs Fireman's Fund Ins. at 133 per cent.
Amount of sales.....$225,638 00

Tuesday, October 3.

8 shs Chollar at 505 per foot.
28 shs Chollar at 506 per foot.
4 shs Chollar at 508 per foot.
12 shs Hale & Norcross at 760 per foot.
2 shs Hale & Norcross at 750 per foot, r w.
8 shs Hale & Norcross at 740 per foot.
6 shs Halo & Norcross at 740 per foot, b 3.
2 shs Hale & Norcross at 740 per foot, b 10.
2 shs Hale & Norcross at 750 per foot, b 10.
2 shs Yellow Jacket at 1325 per foot, r w.
6 shs Yellow Jacket at 1325 per foot.
2 shs Yellow Jacket at 1315 per foot.
6 shs Yellow Jacket at 1310 per foot.
2 shs Yellow Jacket at 1310 per foot, r w.
3 shs Yellow Jacket at 1310 per foot, s 3.
1 sh Yellow Jacket at 1330 per foot, b 30.
1 sh Yellow Jacket at 1325 per foot, b 30.
1 shs Yellow Jacket at 1320 per foot, b 10.
8 shs Gould & Curry at 1300 per foot, s 10.
30 shs Potosi at 486 per foot.
2 shs Potosi at 485 per foot.
2 shs Potosi at 487½ per foot,
40 shs Daney at 32 per foot.
10 shs Imperial at 223 per share. s10.
1 sh Imperial at 223¼ per share.
25 shs Imperial at 222 per share.
10 shs Imperial at 221 per share, s 10.
10 shs Imperial at 222 per share, s 10.
90 shs Wide West at 7 per share.
211 shs Wide West at 7½ per share.
60 shs Wide West at 7¼ per share, s 10.
60 shs Wide West at 8 per share.
6 shs Bullion at 140 per share.
30 shs Bullion at 145 per sharo.
5 shs Bullion at 143 per share.
5 shs Bullion at 143½ per share.
10 shs Sierra Nevada at 16¼ per share.
10 shs Sierra Nevada at 17 per shnre, b 30.
10 shs Sierra Nevada at 16 per share.
30 shs Sierra Nevada at 16 per share, s 30.
1 sh Empire M & M Co. at 237 per sb.
1 sh Cal Steam Nav Co at 75 per ct, s 30.
3 shs Cal. Steam Nav. Co. at 76 p ct.

AFTERNOON SESSION.

16 shs Hale & Norcross at 736 per foot.
12 shs Hale & Norcross at 750 per foot. s 3.
4 shs Hale & Noreross at 750 per foot.
4 shs Crown Point at 1225 per foot.
60 shs Ophir at 500 per foot.
60 shs Ophir at 500 per foot. b 10,
84 shs Ophir at 500 per foot, b 5.
1 sh Yellow Jacket at 1325 per foot.
17 shs Bullion at 155 per share.
15 shs Bullion at 150 per share.
20 shs Bullion at 160 per sharo.
6 shs Bullion at 160 per share, b 3.
3 shs Bullion at 157½ per share
16 shs Bullion at 153½ per share.
10 shs Imperial at 221 per share, s 30.
10 shs Bullion at 222 per share, s 30.
20 shs Bullion at 223¼ per share.
25 shs Bullion at 223½ per share.
10 shs Bullion at 220 per share.
30 shs Sierra Nevada at 18 per share.
35 shs Sierra Nevada at 17½ at per share.
20 shs Sierra Nevada at 18½ per sbare, b 3.
100 shs Wide West at 9 per share.
35 shs Wide West at 6¾ per share.
Amount of sales.....$167,210 00

Wednesday, October 4.

20 shs Gould & Cnrry at 1300 per foot.
4 shs Gould & Curry at 1300 per foot, s 30.
5 shs Overman at 170 per foot.
120 shs Dancy at 30 per foot, r w.
40 shs Daney at 30 per sbare, s 10.
40 shs Daney at 30 per foot.
20 shs Daney at 31 per foot, b 3.
2 shs Yellow Jacket at 1325 per foot, s 3.
2 shs Yellow Jacket at 1325 per foot.
6 shs Yellow Jacket at 1315 per foot.
3 shs Yellow Jacket at 1315 per foot, r w.
2 shs Yellow Jacket at 1320 per foot, b 3.
1 sh Yellow Jacket at 1315 per foot, s 3
2 shs Hale & Norcross at 725 per foot, s 30.
8 shs Hale & Norcross at 750 per foot.
4 shs Hale & Norcross at 740 per foot.
12 shs Hale & Norcross at 735 per foot.
60 shs Ophir at 505 per share.
108 shs Ophir at 500 per foot.
60 shs Ophir at 500 per foot, s 3.
12 shs Ophir at 475 per foot, s 30.
48 shs Chollar at 500 per foot.
16 shs Crown Point at 1200 per foot.
2 shs Potosi at 480 per foot.
5 shs Imperial at 224 per share.
10 shs Imperial at 224 per share, r w.
3 shs Imperial at 230 per share, b 30.
5 shs Imperial at 225 per share.
50 shs Imperial at 228 per share, b 30.
5 sh Imperial at 225½ per share.
30 shs Imperial at 224 per share, s 30.
12 shs Imperial at 226 per share.
10 shs Imperial at 225 per share, s 30.
15 shs Imperial at 222 per share, s 60.
10 shs Imperial at 223 per sharo, s 60.
10 shs Imperial at 226 per share, s 5.
5 shs Imperial at 226 per share, r w.
5 shs Imperial at 227 per share, b 10.
10 shs Imperial at 229 per share, b 30.
10 shs Empire M & M Co. at 232 per share.
5 shs Empire M & M Co at 235 per share.
1 sh Empire M & M Co. at 236 per share.
1 sh Empire M & M Co. at 237½ per sbare.
40 shs Nevada, J. O. at 18 per share.
15 shs Nevada, J. G., at 15 per share.
2 shs Nevada, J. O., at 16 per share, s 3.
25 shs Nevada, J. G., at 17 per share, b 30.
5 shs Bullion at 150 per share.
15 shs Bullion at 145 per share.
10 shs Bullion at 140 per share, s 30.
5 shs Bullion at 147½ per share.
10 shs Sierra Nevada at 19 per share, b 30.
10 shs Sierra Nevada at 18½ per share, b 30.
5 shs Sierra Nevada a t 17½ per share.
1 sh Confidence at 110 per share.

AFTERNOON SESSION.

12 shs Ophir at 500 per foot, r w.
28 shs Ophir at 500 per foot
24 shs Ophir at 515 per foot, b 30.
60 shs Daney at 30 per share.
40 shs Daney at 30 per foot, r w.
40 shs Daney at 31 per foot.
40 shs Daney at 31 per foot, r w.
12 shs Chollar at 500 per foot, b 3.
5 shs Chollar at 490 per foot.
16 shs Chollar at 500 per foot.
80 shs Chollar at 500 per foot, s 10.
30 shs Potosi at 480 per foot, b 5.
30 shs Potosi at 475 per foot.
10 shs Potos at 476 per foot.
6 shs Potosi at 475 per foot. s 3.
4 shs Potosi at 475 per foot, s 6.
8 shs Hale & Norcross at 710 per foot.
2 shs Hale & Norcross at 730 per foot, b 30.
4 shs Hale & Norcross at 710 per foot, s 3.
6 shs Hale & Nareross at 700 per foot, s 3.
4 shs Hale & Norcross at 700 per foot.
4 shs Hale & Norcross at 700 per foot, s 5
4 shs Gould & Curry at 1300 per foot.
41 shs Imperial at 230 per share.
20 shs Imperial at 230 per share, b 10.
5 shs Imperial at 232 per share, b 10.
10 shs Imperial at 227 per share, b 30.
5 shs Imperial at 230 per share, b 30.
10 shs Imperial at 220 per share, b 3.
10 shs Bullion, at 135 per share, s 6.
5 shs Bullion at 130 per share.
5 shs Bullion at 130 per share, s 3.
10 shs Bullion at 130 per share, b 3.
5 shs Wide West at 7 per share.
120 shs Wide West at 7½ per share.
25 shs Exchequer at 28 per share.
29 shs Spring Valley W W at 51 per cent.
Amount of sales.....$174,320 00

Thursday, October 5.

12 shs Ophir at 510 per foot.
144 shs Ophir at 515 per foot.
12 shs Ophir at 520 per foot.
12 shs Ophir at 510 per foot, r w.
36 shs Ophir at 515 per foot, s 3.
14 shs Hale & Norcross at 675 per foot.
21 shs Hale & Norcross at 650 per foot.
12 shs Hale & Norcross at 640 per foot.
2 shs Hale & Norcross at 645 per foot, r w.
10 shs Hale & Noreross at 650 per foot, b 10.
4 shs Hale & Norcross at 660 per foot.
8 shs Hale & Norcross at 665 per foot.
34 shs Hale & Norcross at 650 per foot. s 10.
4 shs Hale & Norcross at 660 per foot, r w.
3 shs Hale & Norcross at 650 per foot, s 3.
2 shs Hale & Norcross at 630 per foot.
2 shs Hale & Norcross at 625 per foot.
2 shs Halo & Norcross at 620 per foot.
14 shs Hale & Norcross at 615 per foot.
6 shs Hale & Norcross at 610 per foot.
2 shs Hale & Norcross at 600 per foot, s 10
2 shs Hale & Noreross at 620 per foot, r w.
1 sh Savage at 1200 per foot, b 5.
4 shs Chollar at 495 per foot.
8 shs Chollar at 491 per foot.
2 shs Potosi at 272½ per foot.
32 shs Potosi at 470 per foot.
10 shs Potosi at 470 per foot, b 5.
8 shs Potosi at 470 per foot, b 3.
10 shs Potosi at 471 per foot, b 5.
16 shs Gould & Curry at 1300 per foot, b 30.
3 shs Belcher at 850 per foot.
6 shs Belcher at 860 per foot, r w.
1 sh Yellow Jacket at 1310 per foot.
5 shs Daney at 39 per foot, 30 d.
10 shs Do Soto at 5½ per share.
47 shs Bullion at 125 per share.
5 shs Wide West at 7 per share.
50 shs Wide West at 7 per share, s 3.
10 shs Nevada, J. G., at 17½ per share.
10 shs Nevada (J. O.) at 17 per share.
10 shs Nevada (J. G.) at 17 per share, r w.
15 shs Imperial at 232½ per share.
6 shs Imperial at 231 per share.
5 shs Imperial at 230 per share, s 30.
10 shs Imperial at 231 per share, r w.
10 shs Imperial at 230 per share.
10 shs Imperial at 230 per share, r w.
15 shs Imperial at 229 per share.

AFTERNOON SESSION.

8 shs Hale & Noreross at 625 per foot.
8 shs Hale & Norcross at 615 per foot, s 3.
4 shs Hale & Norcross at 620 per foot.
4 shs Hale & Norcross at 607½ per foot, b 3.
4 shs Hale & Norcross at 607½ per ft, r w.
2 shs Hale & Norcross at 610 per foot.
2 9hs Hall & Noreross at 605 per ft, s 3.
8 shs Hale & Norcross at 607½ per foot.
2 shs Hale & Norcross at 610 per ft, b 3.
3 shs Belchor at 860 per foot, r w.
5 shs Belcher at 840 per foot.
1 sh Savage at 1200 per foot.
5 shs Overman at 170 per foot.
3 shs Overman at 165 per foot, s 3.
2 shs Overman at 170 per foot, b 30.
3 shs Overman at 165 per foot, b 5.
2 shs Overman at 170 per foot, b 30,
3 shs Overman at 165 per foot, b 3.
1 sh Yellow Jacket at 1300 per foot, s 3.
2 shs Yellow Jacket at 1300 per foot. r w.
1 sh Yellow Jacket at 1300 per foot, b 10.
1 sh Yellow Jacket at 1310 per foot, b 30.
10 shs Potosi at 470 per foot.
20 shs Chollar at 490 per foot.
24 shs Ophir at 525 per foot.
5 shs Bullion at 525 per share.
23 shs Exchequer at 28 per share.
30 shs Exchequer, at 27½ per shnre,
6 shs Imperial at 232½ per share.
10 shs Imperial at 231½ per share.
10 shs Imperial at 230 per share, s 30.
4 shs Empire Mill & Mining Co. at 225.
1 sh Empire M & M Co. at 236 p. share.
30 shs State Telegraph at 25 per cent.
5 shs Stote Telegraph at 26 pershare.
$10,000 Legal Tender Notes at 73¾ per cent.
Amount of sales.....$125,550 00

Friday, October 6.

32 shs Bullion at 127 per share.
16 shs Gould & Curry at 1200@1165 per foot.
110 shs Sierra Nevada at 22@23 per share.
360 shs Ophir at 520@510 per foot.
72 shs Ophir at 480@475 per foot, s 40.
2 shs Confidence at 100 per share.
4 shs Crown Point at 1135 per foot.
4 shs Chollar at 460 per foot.
1 sh Savage at 1100 per foot.
13 shs Spring Valley W W Co at 51 per cent
60 shs Imperial at 230@229 per share.
25 shs Imperial at 227@228 per share, s 30.
32 shs Hale & Norcross at 680@675 per foot.
32 shs Potosi at 460@450 per foot.
20 shs Justis at 18@17 per share.

AFTERNOON SESSION.

7 shs Yellow Jacket at 1225@1230 per foot.
156 shs Ophir at 510@512 per foot.
35 shs Bullion at 125@122½ per shafe.
12 shs Gould & Curry at 1160@1165 per foot.
3 shs Belcher at 855 per foot, b 10.
38 shs Imperial at 228@226 per share.
10 shs Chollar at 465 per foot.
28 shs Crown Point at 1150@1165 per foot.
2 shs Potosi at 450 per foot, b 10.
38 shs Hale & Norcross at 670@676 per foot.
1 sb Savage at 1100 per foot.
Amount of sales.....$120,000 00

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, October 7th, 1865.

There is no new feature in the condition of the money market. Capital seeking investment and for loan purposes is very plentiful, and rates of interest are easy to the borrower. Bank accommodations rule for the most part at 1 ℔ cent. ℔ month, but we are apprised of certain negotiations of an exceptional character, based upon prime collateral, at 10 ℔ cent. ℔ annum. The demaud for money contiuues moderate in mercantile circles.

The receipts of treasure for the interior are scarcely up to the nsual average, and amounted to less than $900,000 since Saturday last. The bullion product of California last month exceeded $1,900,000, and that of Nevada amounted to $1,100,000 during the same period.

Since the sailing of the last steamer there has been no especial inquiry for bullion, and gold bars are dull at about 840. Silver ranges at par @ ½ ℔ cent. premium for round lots.

Legal Tender Notes contiuue inactive at the Board, hut considerable transactions have taken place on the street at 73@73½c, closing at 73c bid. Our latest telegraphic advices from the East, quote gold steady at 146.

The Share Market has exhibited a fair degree of activity this week, without any improvement in prices, however. Some leading holders of different stocks are selling freely, under the expectation of lower prices, and a nnmber of loans upon this description of secnrity have been called in the past day or two. Nevada advices as to the character of recent developments in a certaiu claim are somewbat conflicting, but we think we are warranted in saying that the future of the Comstock lode is probably more promising at this juncture, than it has been for a month past. The work of exploration will now he renewed with considerable vigor at greater depths in a number of mines, and it is reasonable to presume that something will be found of an encouraging nature.

Alpha is in rather less favor, and small sales were made at $2,100 closing at $2,050 asked. There is no material change to note in the condition of this mine, and the yield of bullion for the month of September, amounted to some $88,000.

Yellow Jacket was dealt in to the extent of 85 feet, receding from $1,350 to $1,300, and selling yesterday at $1,225@1,230. During the week ending September 25th, 1,316 tons were extracted from the mine, and 975 tons were reduced, yielding $34,824, or an average of $35.72 per ton. For the week ending the 2d inst., the yield of bullion exceeded $70,000, making an aggregate of some $250,000 for the last current month. The winze sunk upon the west stratum of this mine, from the 360-feet level, continues in fine ore.

Gould & Curry is much weaker, and 23 feet were sold at $1,300 and $1,155, closing at $1,165 asked. The entire receipts of hullion from this mine during the month of September, amounted to $165,319. Nothing new has beeu developed in the 200-feet level, (below the lower tunnel) and explorations at that point progress slowly, owing to the character of the rock and the qnantity of water met with. From the croppings it is thought that some good pay ore can be taken, and arrangements are being made to develop this portion of the claim.

Savage is in less request, and trifling sales were made at $1,150@1,100. It is proposed to start a drift running west from the shaft in the fifth level; meanwhile about 150 tons of ore will he taken daily from other portions of the miue. Receipts of bullion last month amounted to $96,500.

Crown Point was sold at $1,225@1,200—assessment of $100 per foot delinquent—and closed at $1,165. We can learn of nothing new in this claim. Belcher was dealt in at $860@840, closing at $830. The two drifts from the shaft in the fourth and fifth levels have met with nothing of much promise as yet.

Hale & Norcross has ohtained less favor, and some 350 feet changed hands, declining from $750 to $585, rallying to $800, receding to $610, then selling at $677½, assessment delinquent, and closing yesterday at $675. The south winze from the 535 feet level has attained a depth of some 100 feet, and until communication can he had with the south and west drifts from the incline at a depth of 700 feet, nothing very definite can he ascertained as to the real value of recent developments.

Ophir rose from $330 to $525—assessment of $100 delinquent—and was sold yesterday at $510@512. Preparations are being made to renew explorations in this mine, from the hottom of the Mexican shaft. The details of the recent settlement with the Burning Moscow Company have not yet been made publlc.

Chollar has been tolerahly well maintained within a range of $512 @460, and 165 feet were sold in all, closing at $465. Potosi was deal in to the extent of 200 feet, receding from $492 to $470, and selling yesterday at $450. An assessment of $19 per foot was levied on the 3d inst. The product of the Chollar-Potosi mine now averages about 100 tons of ore per day. The new shaft is down some 400 feet.

Imperial has heen comparatively steady, and some 1,000 shares were dealt in, receding from $230 to $220, advancing to $232½, and selling yesterday at $229@226. The receipts of hullion during the past month amounted to $88,018.03, and $30,875.66 were carried over from August 1st, making an aggregate of $119,693.69. The ordinary expenses for August were $39,622.09, and $18,591.84 were expeuded for winter supplies, etc., in all $58,212.93; leaving, on the 1st inst., a surplus in the treasury of the Company of $61,480. Out of this sum a dividend of $10 per share ($40,000) will he disbursed on the 10th inst. and $21,480 will remain at the credit of tho Company. A large portion of the supplies required for the ensning six months have been bought, and the entire liabilities of the Company amount to $14,315, maturing from October 23d to Novemher 15th. The Rock Point mill has lately undergone extensive repairs, and its reduction capacity increased to 70 tons per day. During the present month at least 2,800 tons of oro will he crushed by the Company's two mills (some 400 tons more than last month), and a considerable portion of this ore has already been taken from the mine.

Empire Mill and Mining Company rose from $221 to $237½, and closed at $235. Bullion advanced from $125 to $160, fell to $125, and sold yesterday at $127. Exchequer was sold at $26@28, closing at $26. Daney was sold at $36@31; Sierra Nevada at $18½@22½; Wide West, $8@6, closing at $6, and Justis at $16@17½.

The aggregate recorded salos of Stocks, since Saturday last inclusive, amounted in the aggregate to $917,443.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment, Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Apollo, Lander co., 50c		Dec 7	Oct 23*
Arbitrios, Chihuahua, Mex., $1		Sept 30	Oct 12
Adams, Petroleum, Contra Costa co., $7.50		Nov. 3	Nov. 15
Alameda Coal		A Quarterly Meeting Oct 9	
Bella Vista, Lower Cal., 30c		Oct 14	Oct 28*
Black Ledge, Lander co., $2		Oct 7	Oct 24*
Blue Ledge, Lander co., 50c		Oct 7	Oct 23*
Boston, El Dorado co., 50c		Nov 7	Nov 21
Bolinas, Marin co., 5c		Sept 16	Oct 2*
Bunker Hill, Eldorado co., $1		Oct 7	Oct 19
Burning Moscow, $15		Oct 6	Oct 18
Buckeye, Lyon co., Nev., $3		Oct 7	Oct 23
Bullion, $16		Levied Sept 7	
Baja California, San Antonio, L. C.		Annual Meeting Oct 2	
Bolinas, Marin co., 50c		Nov 4	Nov 20*
Cordillera, Chihuahua, Mex., $2		Sept 26	Oct 7
Crown Point, Storey co., Nev., $25		Oct 4	Oct 20
Capitola, Santa Clara co., 15c		Sept 22	Oct 6
Chipionena, Sonora, Mex., 50c		Oct 14	Oct 28
Cortez, Lander co., Nev., $2		Oct 18	Oct 31
Chipionena Sonora, Mex		Annual Meeting Oct 9	
Dios Padre, Sonora, Mex., $2		Oct 4	Oct 17
Diamond, Del Norte co., $2		Oct 19	Nov 7
Daney, Lyon co., Nev., $1.50		Nov 6	Nov 25
Dios Padre		Annual Meeting Oct 16	
Edward Everett, Lander co., 25c		Oct 14	Oct 28*
Emilia, Guerrera, Mex., 25c		Sept 30	Oct 7*
El Tasto		Annual Meeting Oct 17	
Empire M. & M. Co.		Dividend Payable Aug 10	
Exchequer, Storey co., Nev. $2		Oct 2	Oct 17
Exchequer		Annual Meeting Oct 16	
Elk Horn Petroleum		Annual Meeting Oct 11	
Evoca Cons., Del Norte co., 50c		Nov 4	Nov 20*
Florida, Reese River, Nev. $10		Oct 18	Nov 4
George Washington, Alpine co., $1		Oct 21	Nov 6*
Good Hope, Alpine co., 50c		Oct 14	Oct 28*
Globe, Alpine co., $2		Sept 23	Oct 12*
Golden Rule, Dividend		Payable Aug 20	
Gould & Curry		Dividend, $40	Aug 5
Guadalupe, Chihuahua, Mex. $25		Oct 3	Oct 18
Gold Canon Cons., Storey co., Nev., 55c		Nov 6	Nov 25
Honest Miner, Lander co., 50c		Oct 28	Nov 13*
Hanscom, Copper, Del Norte co., 15c		Oct 7	Oct 23*
Hale & Norcross, Storey co., Nev., $25		Oct 9	Oct 23
Imperial		Dividend Payable Sept 9	
Indian Valley		Meeting Oct 7	
Joe Lane, Lander co., 50c		Oct 7	Oct 23*
Jewett, Storey co., $1		Oct 4	Oct 21*
Jefferson, Brown's Valley		Dividend $10 per share	Aug 23
Jura		Annual Meeting Oct 16	
Josephine, Coso District, $1		Oct 25	Nov 9
Kentucky, Calaveras co., $1		Oct 10	Oct 30
La Favorita, Sonora, Mex. 50c		Sept 30	Oct 14*
Lady Franklin, Alpine co., 5c		Sept 16	Oct 6*
La Blanca, Sonora, Mex., 2 50		Oct 12	Oct 25
La Blanca, Sonora, Mexico		Annual Meeting Oct 10	
Landon, Siskiyou co., 50c		Oct 20	Nov 10
Lady Bell, Del Norte co., 15c		Nov 2	Nov 14
La Victorie, Mariposa co., $3		Nov 4	Nov 20
Mammoth, Alpine co., $1		Oct 21	Nov 6*
Maggie, Lander co., Nev., $3		Sept 23	Oct 5
Morning Star, Alpine co., $1		Sept 22	Oct 10
North American Tin, Mexico, $1		Oct 14	Nov 1*
Nonpareil, Tuolumne co., $1		Oct 23	Nov 6
North American, Virginia, Nev., $10		Sale Oct 20	
Nuestra Senora de Guadalupe, Jallaco, $6		Oct 16	Oct 28
Nuestra Senora de Guadalupe, Durango, 70c		Oct 21	Nov 6
Ontario, Lander co., 50c		Oct 21	Nov 6*
Old Colony Lander co., $6		Oct 14	Oct 28*
Ophir, Storey co., Nev., $8.33½		Oct 3	Oct 18
Oxford Beta, Esmeralda		Annual Meeting Oct 9	
Pizarro, Lander co., 10c		Oct 21	Nov 4*
Porter, Virginia, Nev. $5		Sept 30	Oct 14*
Potosi, Storey co., Nev., $9.50		Nov 6	Nov 20
Paragon, Humboldt co., 30c		Oct 4	Oct 26
Peninsula		Special Meeting Oct 7	
Refugio		Meeting of Trustees Oct 9, 4 P.M	
Southern Light, Lander co., 60c		Oct 28	Nov 15*
Simpson, Alpine co., 25c		Oct 14	Oct 28*
Segregated Belcher, Storey co., $2		Oct 7	Oct 23*
Santa Cruz Petroleum, Santa Cruz, 30c		Sept 23	Oct 7*
Sierra Nevada, Storey co., Nev., $7.50		Oct 7	Oct 21
Sheshone, Lander co., Nev., $2		Oct 9	Oct 23
Salambo, Tuolumne co., 75c		Nov 6	Nov 25
Sierra Nevada		Special Meeting Oct 14	
Segregated Belcher		Annual Meeting Oct 21	
San Fernando, Petroleum		Adjourned Meeting, Nov 6*	
Taurus, Lander co., 50c		Sept 30	Oct 14*
Table Mountain, Calaveras co., 50c		Sept 23	Oct 12*
Trinidad & San Jose, Copala, Mex., $10		Oct 6	Oct 20
United States, 25c		Oct 16	Oct 28*
Walipi, Arizona, $1		Oct 14	Oct 30*
Wide West, Alpine co., $1		Oct 14	Oct 30*
Wide West, Esmeralda, Nev., $5		Nov 6	Nov 20
Yo Semite, Humboldt co., Nev., $1.25		Oct 21	Nov 6*
Yankee Blade, Lander co., 30c		Oct 7	Oct 27*

*Those marked with an asterisk (*) are advertised in this journal.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Burning Moscow	Sept 5	15 00
Bullion	Sept 8	16 00
Crown Point	Sept 2	25 00
Cortez	Sept 21	2 00
Exchequer	Aug 30	2 00
Flowery Hill	Sept 27	2 00
Globe	Sept 17	1 00
Hale & Norcross	Sept 8	25 00
Jewett	Sept 6	1 00
Mount Morale and Lincoln	Sept 29	15
Ophir	Sept 5	100 00
Peck	Sept 13	1 00
Rogers	Sept 12	6 00
Siegel	Sept 6	50
Sierra Nevada	Sept 17	7 50
Segregated Belcher	Sept 9	2 00
Schiffler	Aug 23	1 00
Sand Springs Salt	Oct 1	5 00
United States	Sept 15	25

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale
American Flat Nevada	Oct 14	Virginia
Branch Mint	Oct 28	Virginia
Bishop	Oct 27	Gold Hill
Central Hawkeye	Oct 13	Gold Hill
Crystal Peak Coal	Oct 14	Virginia
Combined Effort	Oct 20	Gold Hill
De Groot	Oct 31	Virginia
Eastern Crown Point	Oct 3	Virginia
Globe	Oct 16	Virginia
Hamilton	Oct 18	Virginia
Imperial Consolidated	Oct 7	Gold Hill
Kossuth	Oct 14	Virginia
Keystone	Oct 20	Gold Hill
Napoleon Consolidated	Oct 16	Virginia
Nevada	Sept 25	Virginia
North Gomstock	Oct 7	Virginia
North Americau	Oct 20	Virginia
Orleans Flat	Oct 26	Virginia
Sierra	Oct 16	Virginia
Union	Oct 7	Virginia

San Francisco Stock and Exchange Board.

SAN FRANCISCO, October 7th, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ —	$ 74
Gov. Legal Tender Notes	73⅞	73¼
State Bonds, 7 ₱ cent	80	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	70	..
San Francisco Bonds, 1858, 6 ₱ cent	65	..
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	60	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	77½
Butte County Bonds, 10 ₱ cent	..	80
California Navigation Co	76	76
State Telegraph Stock	25	..
San Francisco Gas Co	99	..
Sacramento Gas Co	..	75
Spring Valley Water Co	50	50½
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	..	..
Central Railroad Co	..	..
North Beach and Mission	104½	..
MINING STOCKS.		
Ophir	$ 510	$ 520
Gould & Curry	1150	1175
Empire M. & M. Co	....	....
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	1140	1150
Chollar	460	465
Potosi	450	455
Hale & Norcross	675	700
White & Murphy	....	....
Sierra Nevada	22	23
Daney	30	31
Bocking Moscow	..	..
Lady Bryan	..	..
Sacramento & Moredith	....	....
Burnside	....	....
Iowa	....	....
El Dorado	....	....
North American	....	....
Baltimore American	....	....
Yellow Jacket	1200	1300
Overman	165	170
Cedar Hill Tunnel	....	....
Wide West	7	8
Crown Point	1190	1200
Antelope	....	....
Esmeralda	1	5
Aetna	....	....
Real del Monte	..	15
Silver Hill	....	....
Utah	....	....
Justis	..	..
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co	....	....
Melones and Stanislaus	....	....
Shoba	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H	125	127
Buckeye	....	....
Dick Sides	....	....
Imperial	228	230
Alpha	....	2050
Bajazett	.. ....	....

To Blacksmiths.

An excellent, strong lad, from the interior, 17 years of age, desires to learn the Blacksmith's trade. His parents wish him to engage with a reputable firm, and learn his business thoroughly. Address, or inquire at the office of the MINING AND SCIENTIFIC PRESS. 12v1ltf

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our forme location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	65@	75
do pickled ₱ lb	50@	60
do Oregon	40@	50
do New York, ₱ lb	40@	50
Cheese, ₱ lb	25@	30
Honey, ₱ lb	40@	50
Eggs, ₱ doz	60@	65
Lard, ₱ lb	30@	35
Hams and Bacon, ₱ lb	27½@	30
Cranberries, ₱ gal	75@	..
Potatoes, sweet, ₱ lb	6@	8
do Irish, ₱ lb	2@	4
Tomatoes, ₱ lb	3@	5
Onions, ₱ lb	6@	—
Apples, No. 1, ₱ lb	3@	6
Pears, table ₱ lb	3@	—
Plums, dried, ₱ lb	15@	25
Peaches, dried, ₱ lb	15@	25
Grapes, ₱ lb	5@	10
Oranges, ₱ 100	2 50@	3 00
Lemons, ₱ 100	5 00@	6 00
Chickens, ajdece	75@	1 12

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 25 @	6 75
Do Superfine	0 00 @	0 50
Corn Meal, ₱ 100 lb	@	00
Wheat, ₱ 100 lb	1 90 @	2 00
Oats, choice, ₱ 100 lb	1 40 @	1 60
Barley, ₱ 100 lb	1 00 @	1 10
Beans, ₱ lb	3 @	4
Potatoes	1 00 @	1 15
Hay, ₱ ton	10 00 @	15 00
Live Oak Wood, ₱ cord	8 00 @	10 00
Beef, on foot, ₱ lb	6 @	8
Beef, extra, dressed, ₱ lb	12½@	15
Sheep, on foot	1 00 @	2 00
Hogs, on foot, ₱ lb	10 @	12
Hogs, dressed, ₱ lb	15 @	10
Groceries, Etc.		
Sugar, crushed, ₱ lb	16 @	17
Do China	10 @	12½
Coffee, Costa Rica, ₱ lb	27½ @	30
Do Rio	26½ @	27½
Tea, Japan, ₱ lb	85 @	95
Do Green	70 @	90
Hawaiian Rice, ₱ lb	@	10
China do	8 @	10
Coal Oil, ₱ gal	1 60 @	1 75
Candles, ₱ lb	23 @	25
Rauch Butter, ₱ lb	55 @	65
Isthmus do	35 @	42
Cheese, California, ₱ lb	20 @	26
Eggs, ₱ doz	60 @	65
Lard, ₱ lb	28 @	30
Ham and Bacon, ₱ lb	28 @	30
Shoulders	20 @	22
Soap—Pale & C. O	12½@	15
Castile	16½@	17¼

San Francisco Metal Market.

PRICES FOR INVOICES.

Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

SAN FRANCISCO, Oct. 7th, 1865.

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1½c ₱ lb; Sheet, polished, 3c ₱ lb, common, 1½@ 1¾c ₱ lb; Plate 1¼c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2½c ₱ lb.

Scotch and English Pig ₱ ton	35 @38
American Pig ₱ ton	35 @36
Refined Bar, bad assortment, ₱ lb	2¼@—
Refined Bar, good assortment, ₱ lb	3¼@—
Boiler No. 1 to 4	4 @ 4½
Plate No. 5 to 9	4½@—
Sheet No. 10 to 13	4 @—
Sheet No. 14 to 20	5 @—
Sheet No. 24 to 27	6½@—

COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb

Sheathing ₱ lb	.30 @32
Sheathing, Old	.25 @35
Sheathing, Yell	.30 @32
Sheathing, Old Yell	.12 @12
Bolts	.— @—
Composition Nails	.30 @32

TIN PLATES.—Duty: 2½c ₱ lb.

Plates, Charcoal, IX ₱ box	.10 @12
Plates, I C Charcoal	.9 @10½
Roofing Plates	.9 @ 10
Banca Tin Slabs, ₱ lb	.41 @42½

STEEL.—English Cast Steel, ₱ lb 12½@10

QUICKSILVER.—Per lb — @65

For export .65 @—

ZINC.—Sheets ₱ lb 9½@10

LEAD.—Pig ₱ lb 7 @ 8

Sheet	.10 @12
Pipe	.10 @12
Bar	9½@10

MINING AND SCIENTIFIC PRESS PATENT AGENCY.

For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 4th, 1861, and March 3d, 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent, And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed with its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared, time fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will obtain that it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues. If the application be rejected we a cause through investigation to be made him the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications filed in the office, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first instalment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delays on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 yrs and 6 mos	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every application for a patent, for seventeen years	15
On every caveat	10
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
n appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, No. 505 Clay street, corner of Sansome, San Francisco.

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

POSTPONEMENTS.—We would again call the attention of Secretaries to a certain point of the mining law, too commonly overlooked, viz: The requirement that all postponements must be added previous to the expiration of the regular publication of assessment or sale notices.

Mining Summary.

CALIFORNIA.

SHASTA.—The *Courier* snys tbat under the auspices of Mr. L. A. Kelly, a company has been incorporated under the name of the "Union Gold and Silver Mining Compaay," with twenty-two hundred shares, at $100 each, which hns purchased the "Jones ledge," at Lower Springs, for $136 per foot, aud will at once proceed to erect a steam mill on n convenient site, for tbe purpose of working it. L. A. Kelly is superintendent. The working capacity of the mill will be about ten tons per day, aad of tbe kiad known as "Little Devil."

Mr. Conger will erect his prospecting mill either at Lower Springs or Middletown. It will be in operation this fall. Good lodes await his iavestigation at hoth poiats.

PLUMAS.—We learn from the Quincy *Union* that the Cosmopolitan Copper Mining Company have sold out their claim at Genesee Valley, for the sum of $150,000. The purchasers are Mr. N. P. Sheldon and Hoa. Chas. W. Tozer, of Virginia City, Nevada. The amount of ground sold is five thousand four hundred feet on the celebrated Cosmopolitan veia, wbicb is considered one of tbe most valuable copper mines in the State. Tbis is said to be the largest sale of property ever effected in Plumas county.

SIERRA.—The *Mountain Messenger* (Downieville) speaks highly of tbe mines of Sierra, Long, and Dog Valleys. Describiag a visit to St. Mary's District, the editor says: "We lately visited this new mining locality, aad found speculation rife among the burghers of tbis vicinity. One cabin, intended for a wbisky trade and pioaeer blacksmith shop, was in process of erection. Wc met several gentlemen from Washoe and other parts, and upon visiting the ledges eaw a liberal amount of paper stuck along their course, timber ranches taken up, and more or less light prospecting done. What etruck us most favorably, was the big names put on some of the notices, after seeing which, we concluded uot to invest for the presont. The names of ex-Gov. Weller, ex-Gov. "Bigler," ex-Gov. Downey, ex-Judge—hut we cauuot romember tbem all—looked ominous of law suits, freeze-out and gobble-up.

A correspoadent of the *Messenger*, from Alleghany, says that matters in that regiou are rather looking up. Mr. Newell bas a small mill ia operatiou whicb grinds the quartz instead of crushing with stamps. He claims the ability to crush eight tons per day, tbe quartz heing firet burnt in a kiln.

Mr. Barton, of Sacrameato, will have his quartz mill ready for crushing by tbe first of Octobsr, on the Twenty-One ledge. The compaay has already quartz enough out to keep tho mill ruuning all winter. The ledge far exceeds tbe expectations of all, as it coutinually grows wider, being now six feet wide, and tbe quartz much richer than at first. The Union is reported to bave struck anotber pocket; but little ie said about it. I think it is only a very small oae. The Fac Simile are working in the upper tunnel, as there is no water to coatend witb, and the lower one is of such solid rock tbat they have been able to peaetrate but thirty feet during the last year. The Oak Flat Company are etill bard at work, nnd those who have the management of it are levying heavy useessments, and are buying up nll tbe stock. Tbe Winnieford and Ditto ledges are etill considered rich. The winter will be more lively tban tbe summer hae been, aud no one need be idle.

NEVADA.—Extensive prospecting, says the Grass Valley *National*, is now going on in what is known as the Live Oak district, about five miles this side of Illinoistown. The gold is very fiae—best described by the term "flour gold." The rock is so much decomposed that its surroundings are worked in a rocker, and even then it produces from eight to twelve dollars per day. The priucipal ledge is called the "North Americaa," and is from five to six feet in width Claims have been taken up for miles around, and great enthusiasm prevails.

The *Union*, in speakiag of the mine owned by McFadden, Thomas & Co., which lies about a mile and one quarter from Grass Valley, says that the company have been steadily at work for tbo past two yenrs, aad have run a tunnel along the ledge for a distnnce of about three hundred feet, striking a fine ledge well defined throughout, gold being seen ia all the rock as they progress along the ledge. The Ophir Hill Company, whicb is the adjoining claim, hnve already struck rock which pays $150 per ton. From present indications in the Rich Hill mine, wo think tbe owners bave struck tbeir pile.

Tbe Nevada *Gazette* learns that Messrs. Gray & Jenkins, the owners of the old Illiaois Company's quartz ledge, have negotiated for the sale of the same, the price having been agreed on, and the transfer will be made in a few days. This is one of the oldest quartz locations in tbe county, the claim having beea taken up in 1851, nnd the Revere mill was erected that season for the purpose of crushing the rock. Owing to the great cost of crushiug, however, and the want of knowledge of working mines aud saving tbe gold, the work for a time was stopped, and the next year tbe mill was taken down and the machinery couverted to other purposes. Since tbat time considerable rock has been taken from the ledge and worked with profit. Tbe claim is on the same ledge as the Gold Tunnel and California claims.

TUOLUMNE.—The *Courier* says thnt the past few weeks have heen full of promise, and that a vast improvement in the mining affairs of that county will soon be visible. As an indication that capital is gradually going thither, the editor notices that several rich mines have lately been sold to wealthy companies and individuals, for large sums, aud hears of others being negotiated for by those who have recently been examining the various claims in that vicinity. It is claimed that there are a large number of mines in thnt county which only need to be thoroughly developed to be proved equal in value to any mines in the State. The *Courier* thinks if men of means were to take hold of these ledges with a determination to test their value, they would soon be rewarded hy dividends, and convince capitalists thnt there is no better place in which to employ money than Tuolumne county.

AMADOR.—The *Ledger* says that A. H. Rose, of Amador City, has sold the Keystone mine and mill to a San Francisco company for the sum of $120,000.

SANTA CLARA.—The San Jose *Mercury* says: "The Margarita Copper mine in this county is turning out about one thousand dollars worth of copper per day. Much of tbe rock assays as high as fifty per cent. copper."

WASHOE.

Developments along the lower levels of the Comstock, as in all the various mines where deep shafts have been sunk, tend more and more to prove the permanence of tbis celebrated lode, and its increase ia value to an illimitable depth. Like all otbes lodes, this also has its poor, aad sometimes harren streaks aad spots; but experience here, as in all other monster lodes, go to show that snch accidents are not sucb as should cause discouragement in working, or prevent a liberal outlay of capital in their development. Tbe mistake beretofore on this lode has been, that too little atteutioa has heen devoted to keepiag the mine opened ahead, so that wheu a poor place is eacouutered, it may be pusbed through und a productive portion reached nnd properly opeaed before that already developed could be worked out. Such mistakes will not soon be repeated iu Washoe. All the leadiag companies oa tbe Comstock are now pushiag rapidly downwards, and before long it is expected that several other companies will strike it rich.

The *Territorial Enterprise* gives tbe following as the last quarterly yield of the mines now beiag worked within the limits of Virginia City: The number of tons of ore extracted during tbe quarter ending August 27th, 1865, was 32,347, vnlued at $7,168,206.86. Of the 32,347 tons of ore raised here, 6,472 tons were reduced within the city liniits, nad 25,877 tons were reduced in mills outside.

The chief feature of the week has been the strike ia the Hale & Norcross. This strike was made in the lower level of tbe mine, and 700 feet below tbe surface. The Superintendeat says tbat he finds the same body of ore in an air shaft which he has been sinking from the level above to connect with the lower level to allow a free circulation of air. This, says the *Union*, is the first of tbe deep shafts to strike good ore at a considerable depth below all former lovels that have been worked, and it affords tbe the greater encouragement from the fact that this mine has never found a large body of good ore until now. This has herctofore seemed to be a barren place iu the ledge between tbe Gould & Curry aad Chollar chimuies. It is therefore reasonable to expect that the more fortunate claims on each side will find tbe ore deposits extending as far downward as where this claim first strikes it. It ought to settle the questioa in tbe minds of all doubters as to tbe deptb aud permanency of our miaes. The deposit ie twelve feet in width, and consists of ore that will make on aa average at lenst $40 per ton. It was struck thirty feet from the Chollar line, aud followed southerly a distauce of fifty feet, proving tbat claim to be good nlso at a deptb of 200 feet below its old works.

The Yellow Jacket Company are confidently expecting a large yield at their first cleaa-up in the new mill. The mill crushes and amalgamates ninety toae of ore per day. At present 146 men are employed in and about tbe mine, and 200 tons of ore are raised per day. This is doing good work. The mine looks well throughout. The company have a large number of men employed in framing the timbers for the extensive new building to be erected over their new shaft for hoisting works, blacksmith and carpenter shops, offices, engine rooms, etc. A strong force is also hard at work, grading and digging for the foundations for the heavy engiaes and other machinery.

Work is steadily going on in the Gold Hill Tunnel, and is now very near the claims of Gold Hill proper. A new contract has been let to drive the tunnel six hundred feet further. This will take it to the claims which are being worked deepest in the hill, and where tbe water in the miue has to be hoisted the greatest distauce, whicb it will strike at the depth of over tbree hundred feet, nnd serve to drain them to that depth, and be an outlet from the water raised from below. Tbe tunnel, when completed, will cnuse a great saving of wood and wear of machinery to those claims with which it will connect.

The Gold Hill *News* says that parties are at work upon some of tbe gold-bearing leads ia Devil's Gate District, some time since cursed as wild-cat, and are able to make good wages by properly assorting the ore and carefully working it in arastras. There are doubtless many claims in tbe neighborhood of Silver City that would pay well for working, provided the parties owning them possessed water-power sufficient to rua a couple of arastras. In nearly all the abaudoned claims ia the district small streaks of rock exceedingly rich in gold are to be found.

The Overman Company are aow dowa 545 feet with their shaft. They are but little troubled with water.

ESMERALDA.

Tbe Esmeralda *Union* ie iaformed by Mr. Henry Doanel, who recently arrived from the Red Mountain mines, 125 miles east of Aurora, that the prospects of the miners in that region are most flattering. Tbe three-stamp mill (steam) of McCurdy & Co. has already taken out some $2,000—crushing ore from the Jewel mine. The ore is packed about five miles and yields $50 per ton, though worked by a very imperfect process—no pans boiag used aad all the gold being saved in the batteries and upon a plate of copper charged with murcury. About one-third of the gold contained in the rock is lost in the tailings, owing to lead or other metal carrying it away. In the viciaity is a claim known as the Golden Crown Series, embraciug niue leads, all rich in gold. About ten miles east of McCurdy's mill a fine twelve-stamp mill is being erected by Mr. Samuel Martin. It will go into operatiou in a day or two. This mill is at what is called Silver Peak, and will begin crushing ore from the Vanderbilt lead, one mile in lcagth of whicb is owned by Mr. Martin. The lead contains more silver than gold.

REESE RIVER.

The *Reveille* says that the iaflux of Eastern capital into that region, together with tbe continued success of prospectors, hns given a great impetus to explorations duriag the past season, and proceeds to record the discovery of another new and promising mining district, whicb has been called the "Great Pacific." It is located in the northern end of the Egan range of mountaius, in the extreme eastern border of the State.

An English correspondent of a San Francisco daily, writing from London, under a recent date, gives the following in relation to Reese River mines now iu that market:—"Two companies bave been lately placed on the market here for erecting mills aad workiag silver mines in tbe State of Nevada. One, the Lander City Company, has a capital of $500,000, and the other at Austin, a similar amouat. The public bave, however, not come forward very eagerly, but, I believe both will he carried out by a few capitalists who have faitb in the represeatations of the vendors. Little or nothing is known here among capitalists aad business men of the rich miaes of silver and gold which are daily being opened in Nevada and Idaho, and of tbe favorable field for capital judiciously invested in the new districts. Should, however, one or two companies, witb tbeir headquarters in England, once get under way, aad realize sufficient to pay large dividends, you may depend there would be a rush to "get on," which would give a great impetus to miniag, and result largely to the prosperity of the Pacific States."

Good reports are received from the Augneta district, in Churchhill county. It nbounds in wood and water, and is but twenty miles distant from the Humboldt salt fields. It ie said that many of the quartz veins in this district run from a granite to a slate formation, without any perceptible change in their course, size or richness. Tbe Sister seriee and Augusta seriee are located in tbis district, and are well situated for working.

Blue Spring district, about fifty miles south of Austin, is well spoken of. The ledges are said to be of enormous size, from eight to thirty feet thick.

The Murphy & Garnett mine, situated on Willow creek, near Clinton, in Smoky Valley district, has recently been sold to parties in New York. From indications it is a valuable piece of property. The rock assays very bigh.

The Nye county *News*, says tbat Judge S. L. Baker, aad eome four others, intereeted with him ia miaing ground in Twia River district, have disposed of their iaterests for the sung little sum of $125,000, cash, and one hundred shares in each of the seven locations, wbich form the amount of gronnd sold. This givee eacb of the original owners $25,000 in cash, and seven hundred shares of unassessable stock. The party buying is an agent for Eastern capitalists, aud we learn will develop the claims with nll possible dispatcb.

Mr. George Hart, of Gold Hill, is now superintending the crectioa of a new mill in San Antonio district, with which will be connected furnaces for roasting the ores operated upon, end everytbing will be carried on according to the most npproved plan for the reduction of the ores of tbat district.

MINERS' LICENSE.—During the last session of Congress the Reveaue law was amended, and among other tbings a provision was added for tbe collection of liceases from miners. As there appears to be considerable misunderstanding in regard to the matter we give the law providing for tbe paymeat nf such liceuee, which reads as follows:

Miners shall pay for each and every license the sum of ten dollars. Every person, firm or company who shall employ others ia tbe business of mining for coal, gold, silver, lead, copper, iron, zinc, spelter or other minerals, not having taken out a liceuse as a mnuufacturer, and no otber, shall be regarded as a miner under this act. *Provided*, That this does not apply to any miner whose receipts from his mine shall not exceed annually oae thousand dollars.

The law exempts all miners who do not take out more than $1,000 per aanum, all who have paid licenses are manufacturers, and all who do not employ otbers in mining for tbem. One license is sufficieat for a firm or company engaged in miniag.

MINING ACCIDENT.—A miner in the Yellow Jacket mine, last Thursday, attempted to jump on a cage that was passing up the shaft from oae of the middle stations, and in so doing fell witb bis head against tbe side of tho sbaft where it was grouad by the cage until the flesh was torn completely off one side of his head and face. Had not the brakeman noticed that there was some difficulty by the hoistiag, he would probably bave been killed. He may yet recover. Tbe practice of jumping upon tbe cage from an upper level while it is ia motion ie said to be quite common at some miaes. It ie a most dangerous practice, and should never be allowed.

THE SUEZ CANAL.—The Suez Canal, connectiag the Red and Mediterranenn Seas, is advertised ae being opened on the 17th nf August. Tbe re-opening of tbis canal has been effected uader Freuch patronage, and is supposed to be a work of great commercial importance. Rollins, the ancieat historian, eays Seostris, or according to otbers, Psammeticus first projected tbe design and began this work. Necho, his successor, laid out immense sums upon it, and employed bundreds of thousande of men. Rollias says one hundred and twenty tbousand Egyptians perished in the undertaking. He gave it over, terrified by an oracle, whicb told bim that he would thereby open a door for barbarians to enter Egypt. The work was again commenced by Dariue I, bnt be was induced to suspend the work by being told tbat as the Red Sea lay higber than Egypt it would flood the country. It was however, finished by the Ptolemies. The canal was 125 feet wide, nnd deep enough to float the largest ships—which were not very big in that day. Rollius gives tbe length at 200 miles—tbough it is ouly 80. It finally got filled up, and scarcely a mark could he eeen wben tbe Frencb Emperor began to re-open it.

NEW THEORY.—A philosopher in one of the towns of New York accounts for the dearth from the great number of lightning rods there. He says these rods take tbe electricity from tbe clouds and conveyit tn the earth, so that they scatter without rain.

Mining and Scientific Press.

W. B. EWER.....SENIOR EDITOR.

C. W. M. SMITH. W. A. EWER. A. T. DEWEY.

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American and Foreign Patents.—Letters Patent for Inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the credit system.

San Francisco:

Saturday Morning, Oct. 7, 1865.

RELIABILITY OF OIL WELLS.

According to the *Journal of the Franklin Institute*, one of the most reliable authorities extant, petroleum even now deserves to be ranked with coal and iron, as a substantial mining interest. Experience thus far has almost universally proven that when petroleum becomes exhausted in shallow wells it may be found even more plenteous in deeper ones. According to the journal now before us, the wells of the famous Oil Creek region, in Pennsylvania, were first sunk to a depth of only about two and three hundred feet, at which depth a heavy lubricating oil was generally obtained, but mostly in small quantities, and usually only at the expense of pumping. These wells were gradually exhausted and abandoned; but subsequently the same borings, or new ones, were put down to a depth of from five to six hundred feet. It was those *deep* wells, principally, which yielded such immense quantities of oil by flowing—some yielding as high as 1,000, 2,000, and in some cases exceeding 3,000 barrels every twenty-four hours. The journal we are quoting says that of 340 wells sunk previous to the date of the article before us, between the Humboldt Refinery and Roseville, all that have reached the proper depth have produced oil, and the remainder, numbering 112, were then expected to experience equally good fortune. The above is, in substance, the answer which the *Journal of the Franklin Institute* gives "to those who are fearful that petroleum is giving out." This answer may well serve as an encouragement for California prospectors to persevere wherever there is found a reasonable indication for the existence of oil. If found in any particular locality, it may reasonably be looked for throughout the entire extent of that geological section. In this particular petroleum is altogether different from mining for silver or gold. It is as reliable as coal or iron, and is as sure to return a profit to intelligent investment, as the planting of wheat or corn. The fact that it forms the basis of numerous wild-cat operations, is no argument against legitimate investments.

A NEW SOURCE FOR OBTAINING COAL OIL. Dr. Benoist, the pioneer coal oil distiller of the Pacific coast, says the *Flag*, has been for some months past engaged in making experiments for the purpose of obtaining coal oil from the tar produced by the local gas companies in making gas. We are pleased to learn that his experiments are likely to be successful.

IN our notice of Mr. Jas. Macken's copper works, last week, we should have mentioned that he does a large amount of work for sugar manufacturers in the Sandwich Islands.

PROCESS OF DISINFECTION.

The following memoranda on disinfection have just been issued by the English Privy Council; and, considering the circumstances under which they are published, we feel bound to assist in giving them all publicity. They may be found of especial value at the present time, while an unusual amount of attention is being directed by our citizens to a reorganization of the Board of Health of this city, and to the necessity for a thorough reform in our health regulations, by which the foul alleys, filthy yards and disease-engendering courts, which so abound, may be removed from our midst. It is terrible to reflect what might be the result if some sudden contagion should appear among us in our present condition. Measures should be taken at once to purify the city by a thorough cleaning of all the alleys, courts, lanes, and yards throughout the city, where such renovation should, in the opinion of an intelligent Board of Health, be deemed advisable. In this connection the following memoranda, prepared with great care, may not be out of place or time:

"1. For purposes of artificial disinfection, the agents which most commonly prove useful are—chloride of lime, quicklime, and Condy's manganic compounds. Metallic salts—especially perchloride of iron, and chloride of zinc, are, under some circumstances, applicable. In certain cases chlorine gas or sulphurous acid gas may advantageously be used; and, in certain other cases powdered charcoal or fresh earth.

"2. If perchloride of iron or chloride of zinc be used, the common concentrated solution may be diluted with eight or ten times its bulk of water. Sulphate of iron or chloride of lime may be used in the proportion of a pound to a gallon of water, taking care that the water completely dissolves the sulphate of iron, or has the chloride of lime thoroughly mixed with it. Condy's stronger fluid (red) may be diluted with fifty times its bulk of water; his weaker fluid (green) with thirty times its bulk of water. Where the matters requiring to be disinfected are matters having an offensive smell, the disinfectant should be used till this smell has entirely ceased.

"3 In the ordinary emptying of privies or cesspools, use may be made of perchloride of iron or chloride of zinc, or of sulphate of iron. But where disease is present, it is best to use chloride of lime or Condy's fluid. Where it is desirable to disinfect, before throwing away, the evacuations from the bowels of persons suffering from certain diseases, the disinfectant should be put into the night-stool or bed-pan when about to be used by the patient.

"4 Heaps of manure or of other filth, if it be impossible or inexpedient to remove them, should be covered to the depth of two or three inches with a layer of freshly burnt vegetable charcoal in powder. Freshly burnt lime may be used in the same way, but is less effectual than charcoal. If neither charcoal nor lime be at hand, the filth should be covered with a layer some inches thick of clean dry earth.

A PETROLEUM CONVENTION IN HUMBOLDT. A Convention of petroleum miners has been called to meet at Petrolia, in Humboldt county, on the 19th inst., for the purpose of considering the subject of the titles to their lands, and taking other action in regard to the interests of their occupation. The coal oil business appears to be undertaken in earnest in that county, and so confident are they of success that they wish to take measures for obtaining from Congress a recognition of the validity of their claims. The valuation of property in Humboldt has increased thirty per cent. during the last year, the largest increase in the State. The oil has been found in a number of places, and it is presumed that enough will soon be obtained to send a regular supply to the market.

A NEW PROJECTILE.—It is well known that if a few grains of fulminate of mercury be placed upon an anvil and struck with a hammer, a piece will be taken out of the anvil. It is proposed to make use of this fact in gunnery, by placing upon the tip of any elongated projectile a thin coating of this detonating compound (which is the same now used in percussion caps,) and it is supposed that no iron plating can withstand its force. The experiments which have been tried with the fulminate of mercury with rifle projectiles have been successful in piercing a boiler-plate target.

A Query.

MESSRS. EDITORS:—As Mr. Mosheimer appears to be well posted on concentration of copper ores, and as his article, as published in your issue of September 30th, is not as full as might be desirable to the generality of miners, I should be glad if he would furnish us with the best methods of concentrating, by water, such ores as the following:

1st. Ores containing, besides sulphur, only arsenic and iron.

2d. Carbonates and oxides of copper, mixed with oxides of iron and with lime.

3d. Oxychlorides of copper, intermixed with quartz.

AN EXPERIENCED MINER.

THE WATER MONOPOLY.—We hear almost universal complaint among all classes of landlords and tenants of the extortionate price of water. Since the combination of the two water companies the rates have been doubled and in many instances trebled. The cost of water now is nearly as high as gas in many of the Atlantic States. Many of the large property owners are protecting themselves against this imposition by sinking wells, but the poor not having the means to do so are the victims of the monopolists. The Cosmopolitan Hotel is supplied with excellent water by means of an Artesian well, which cost but a trifle in comparison to what would be the expense of a supply from the Water Company at the rates it charges poor families. So says the *Flag*; in all of which we fully concur.

BREEDING GOLDFISH.—The Virginia *Enterprise* is informed by Mrs. L. S. Bowers, of Virginia City, that in some artificial ponds near her residence she has a perfect school of goldfish of all sizes and ages. The ponds are filled with water from a large hot spring, near at hand, and cooled to a genial temperature by cold water from other springs in the immediate vicinity. Several goldfish were originally put into the ponds, less than two years ago, and they now contain between five hundred and one thousand of these beautiful fishes.

THE LATE EARTHQUAKE AT THE NORTH.—An earthquake shock, the severest which has been felt within the memory of the oldest inhabitant, was experienced in Eureka, in Humboldt county, about 9 o'clock on Sunday morning last. According to the *Call*, the first disturbance of the earth occurred about a quarter past 9 o'clock A. M.—the vibration being from south to north, and lasting about eight seconds. This was followed by a second shock from the same direction, which endured about the same time. There was scarcely a house in the town that escaped fracture in its brickwork. The chimneys of the Russ House, the principal hotel in the place, were razed close to the line of the roof; and the Court House shed its plastering like leaves in Autumn weather. All the chimneys in this building were damaged. The steeple of the First Congregational Church swayed to and fro like a reed in the wind; and in the forests of redwood which lie adjacent to the town, many a majestic tree was uprooted and fell crashing to the earth. In private houses and stores more or less loss was experienced—the damage in some of the latter being estimated as high as two hundred dollars. Fort Humboldt, a military post situated a few miles below Eureka, on the Bay, was even more roughly handled than the town. At the time of the earthquake the troops were on parade, and their attention to the orders of the officer of the day was distracted by finding a crevice about two inches in width opening at their feet, along the extent of the parade ground. Their consternation was extreme, and they skedaddled without waiting for permission to that effect.

EFFECT OF NATURAL ELECTRICITY ON TELEGRAPH WIRES.—During a late tornado in Minnesota the telegraph wires were stretched sixty feet. When found by the repairer, the wire, though disconnected from the main battery, was so charged with electricity that it communicated a severe shock nineteen hours after the storm had passed. It is supposed that the wire was so overcharged as to become red hot, and in that condition stretched by the sheer force of the wind.

TREASURE EXPORT BY THE CONSTITUTION. The Pacific Mail Steamship Constitution sailed for Panama on Tuesday last, with a large list of passengers and $1,509,594 in treasure—$1,112,312 of which goes to New York.

IMPROVED REFRIGERATORS.—Mr. W. S. Rowe, of this city, has recently invented quite an important improvement, designed originally for application to milk-pans, but which is equally applicable to various other purposes, where a moderate degree of refrigeration is desired. This improvement, as applied to milk-pans, consists in a conical-shaped cover, with a chimney of six or eight inches in height, covered by wire net-work, and springing from its top. Around the lower portion or the base of the cover, several clusters of small holes are made, by which, in connection with the chimney, a draft is established, sufficient to cause a thermometer to fall from ten to fifteen degrees, in the space of as many minutes, when suspended within the pan. By this decrease of temperature, a much larger amount of cream is obtained than by using the ordinary pan, while the same is kept perfectly free from vermin and insects. We have ourselves tried one of these pans, and can fully attest to its great superiority over those in common use. The increase in the amount of cream produced will soon pay the cost of the pan, to say nothing about the advantage of cleanliness. It is especially valuable for preserving meat, as by its use fresh meat may be kept about one-half longer than in the open air. This principle may be applied to any other purpose of moderate refrigerating or thorough ventilation. Mr. Rowe has applied it to hats, ordinary refrigerators, covering for cradles, and for ventilating dwellings, public buildings, etc. A large number of persons have used the pans, and all, without exception, speak in the highest terms of their utility. They may be examined and obtained at Osgood & Stetson's, 219 Commercial street, in this city.

A NOVEL UMBRELLA.—The latest wonderful discovery announced is by a Frenchman, who claims that by an application of electricity to a small mechanical apparatus, that can be carried in the end of a walking stick, and by holding the same, so prepared and charged, over his head after the manner of an umbrella, he can avert the rain entirely from his person. He is said to have repeatedly tested the efficiency of his electrical apparatus by passing through the streets of the place where he resides, during a heavy rain storm, with his cane held after the manner of an umbrella, when by some unseen agency the particles of water are repelled in every direction from the point of his cane, whilst he walks through the midst of the shower without being wetted by the falling water.

DIVIDEND PAYING INSTITUTION.—In the New York *Stockholder* of August 15th, is the following announcement:

The New York and Reese River [Midas] Mining Company will pay their second quarterly dividend of three per cent. in gold, at 30 Pine street, on and after the 1st of September next.

The above, says the Reese River *Reveille*, ought to convince Eastern capitalists that a good field for investment is open in the silver mines of that State. One per cent. per month in gold is a large rate of interest in the East, —on a greenback capital. The mill will probably pay an increased dividend hereafter as a large amount of money has been paid out in the purchase of mines and in conducting lawsuits.

THE LATE EARTHQUAKE ON THE MISSISSIPPI. The late earthquake on the Mississippi, appears to have been one of unusual severity, and to have been attended with some remarkable phenomena. At New Madrid the waters of the Mississippi rose several feet in hight—the water, in fact, was forced backward, up the stream, the current being actually stopped during the continuance of the shock. Several chimneys were toppled over in Memphis, and considerable plastering was knocked down. While it was so sensibly felt in the houses it was scarcely perceptible in the streets.

THE NEW OVERLAND TELEGRAPH LINE is now in active progress of construction. It was expected that in twenty days from the 30th of August last, the United States Telegraph Line would be completed to Kansas City.

LIST OF OFFICERS OF MINING COMPANIES AND INCORPORATIONS.

[PUBLISHED IN THE FIRST ISSUE OF EACH MONTH.]

[Below we give the date of recent meetings held in this city and the names of officers chosen or appointed. Every bona-fide company is invited to send us the result of their election, to be thus put on record, gratuitously, with any other facts of general interest.]

Blue Ledge G. & S. Quartz M. Co.—August 30th. Trustees: Aug. C. Teitman, A. Walrath, W. H. Lyon, N. E. Grimes, James S. Kennedy. President, Aug. C. Teitman; Vice President, A. Walrath; Secretary, J. M. Buffington; Treasurer, W. H. Lyon; Superintendent, William S. Moses.

Harmon G. & S. M. Co.—August 2d. Trustees: B Dore, C. H. Aitken, A. J. Downer, John Patterson, Isaac Taber, Wm. H. Davis, J. W. Epley. President, B. Dore; Secretary and Treasurer, T. J. Jones; Superintendent, John Householder.

Keokuk Mining Co.—August 9th. Trustees: H. T. Graves, H. D. Ellerhorst, R. W. Addis, G. W. Peterson, A. B. Winegar. President, H. T. Graves; Secretary and Treasurer, A. B. Winegar. Office, 308 and 310 Front street.

Kentucky Copper M. Co., Copperopolis, Felix District.—Sept. 5th. Trustees: B. Lutofs, Henry Voormann, Samuel Grosh, C Aug. Weihe, J. A. Bauer. President, Bd. Lutofs; Secretary and Treasurer, J. A. Bauer; Superintendent, C. W. Lewis.

Lizzie G. & S. M. Co.—March 6th. Trustees: Horace Peter, W. H. Allen, C. M. Service. President, Horace Peter; Secretary and Treasurer, W. H. Allen; Superintendent, D. B. King. Office, 502 Montgomery street.

Mechanics' Mining Co.—August 9th. Trustees: F. Locke, H. D. Ellerborst, S. M. Tibbetts, H. T. Graves, A. B. Winegar. President, H. T. Graves; Secretary and Treasurer, A. B. Winegar. Office, 308 and 310 Front street.

Mina Rica de las Flores M. & M. Co.—August 23d. Trustees: Mullot aine, B. Pasquale, J. Foa, A. Rochebrune, L. Blanebard, C. Guilhard. President, Mullot aine; Secretary, S. Dickinson; Treasurer, Alfred Borel; Superintendent, A. Bouglinval.

Sophia Cons. G. & S. M. Co.—Sept. 4th. Trustees: J. S. Josephi, Ad. Unger, H. Loewy, Wm. Fisbel, J. E. de la Montagnie. President, J. S. Josephi; Secretary, D. E. Josephi; Superintendent, Charles Sell.

Seaton Mining Co.—Sept. 13th. Trustees: C. H. Bradford, Wm. Thompson, Jr., C. J. Hutchinson, Mark L. McDonald, G. W. Seaton. President, C. H. Bradford; Secretary and Treasurer, S. T. King; Superintendent, Wm. H. Hepburn.

Santa Cruz Petroleum Oil Works Co.—Sept. 26th. Trustees: Col. Leander Ransom, N. C. Walton, A. Walrath, Y. Martenstein, Dr. B. F. Hardy. President, Col. Leander Ransom; Vice President, Dr. B. F. Hardy; Secretary, R. Wegener; Treasurer, A. Walrath; Superintendent, N. C. Walton.

RECENT INCORPORATIONS.

Alpha Mining Co., Gold Hill, Storey County, Nev.—Sept. 26th. Trustees: Chas. Bonner, Geo. B. Reeve, Louis Gerstle, O. A. Sanborn, Alex. W. Baldwin.

Bennett Oil Co., San Mateo Co., Cal.—Sept. 2d. Trustees: A. M. Winn, W. W. Bennett, Wm. Sublitt, Wm. T. Randall, A. G. M. Bowen.

Confidence S. M. Co., Gold Hill District, Storey Co., Nev.—August 11th. Trustees: John Macdonald, Jr., Wm. Surryhue, S. B. Whipple, John H. Todman, J. Greenbaum.

California Petroleum Rectifying Co.—August 25th. Trustees: L. Tichner, Jas. Anderson, H. T. Graves.

Comet Petroleum Co., Mattole District, Humboldt Co., Cal.—August 1st. Trustees: Geo. R. Paul, Robert Kirk, Wm. Vale.

Eel River Oil Co., Eel River District, Humboldt Co., Cal.—Sept. 11th. Trustees: J. L. Cresett, W. B. Ewer, Charles J. Barber, E. H. Wilson.

Emerald Copper M. Co., Empire District, Yuba Co., Cal.—August 23. Trustees: John P. Jones, Thomas Hardy, Jas. A. Pritchard.

Fortuna Consolidated G. M. Co., Soulsby Mining District, Tuolumne Co., Cal.—August 4th. Trustees: F. Hagerman, J. Stock, C. Spreckels, F. Kaiser, A. Haag.

Forks of the Mattole Oil Co., Humboldt Co., Cal.—Sept. 30th. Trustees: J. C. Birdseye, William Laugerman, Louis Cohn, T. J. L. Smiley, E. R. Burke.

Flowing Well Oil Co., San Mateo Co., Cal.—August 10th. Trustees: Robt. L. Horton, M. J. Kennedy. John J. Mills, Wm. S. Prince, Eugene Walker.

Gem Petroleum Co., Bear River District, Humboldt Co., Cal.—Sept. 8th. Trustees: J. H Brass, H. H Ricker, N. B. Crummer.

Gould Oil Co., Mattole District, Humboldt Co., Cal.—Sept. 13th. Trustees: George S. Gladwin, Chas. M. Haley, Chas. W. Newman.

Howarn & Martin Petroleum Co., Mattole Distriet, Humboldt Co., Cal.—August 1st. Trustees: M. S. Martin, H. C. Howard, J. Lyon.

Hawley Farm Oil Co., Bear River District, Humboldt Co., Cal.—August 4th. Trustees: J. C. Birdseye, C. N. Felton, Louis Cohn, W. Langermann, T. J. L. Smiley.

Kentuck M. Co., Gold Hill Distriet, Storey Co., Nev.—August 22d. Trustees: S. Wood, E. W. Teackle, H. E. Greene, Thos. Sunderland, Joseph French.

La Golita Petroleum Co., State of California.—Sept. 26th. Trustees: Lester L. Robinson, Francois L. A. Pioche, Romain Bayerque, Samuel L. Theller, Asher B. Bates.

Lyon Petroleum Co., Mattole District, Humboldt Co., Cal.—August 1st. Trustees: M. S. Martin, H. C. Howard, Joshua Lyon.

Leon S. M. Co., Columbus District, Esmeralda Co., Nev.—August 29th. Trustees: J. Francisco de Leon, Vincente Oviedo, Manuel Madero, Frank R. Larkin.

Merchants' Petroleum Co., Botts District, Colusi Co., Cal.—Sept. 15th. Trustees: C. W. Kellogg, W. S. Havens, C. C. Burr.

Mechanics' Petroleum Co., Autelope Petroleum Mining District, Colusi Co.—Sept. 15th. Trustees: C. W. Kellogg, W. S. Havens, C. C. Burr.

Mattole Creek Oil Co., Mattole District, Humboldt Co., Cal.—Sept. 15th. Trustees: Henry Palmer, W. K. Flint, E. C. McComb, Edward F. Stone, Geo. W. Beaver.

Pacific Petroleum Co., Redwood Township, Santa Clara Co., Cal.—Sept. 4. Trustees: Jules Foa, J. M. Villeneuve, D. M. Harwood.

Pioneer Petroleum M. Co., Mattole District, Humboldt Co., Cal.—Sept. 11th. Trustees: J. B. Pierce, Joel Halsted, William E. Straut, Charles Suttou, Jr., James S. Beardsley.

Sheridan Cons. Petroleum Co., Humboldt Co., Cal.—August 24. Trustees: Charles F. Robinson, A. L. Hart, G. A. Ensign.

San Ramon Oil Co., Napa Co.—Sept. 26th. Trustees: Juan B. Peralta, Manuel Madero, Nicolas Dabovich.

The Play Book of Metals.—This is the title of a very curious and useful little work, which should find its way into every household and school library. Its writer is John Henry Pepper, the author of the "Play Book of Science." The aim of the writer has been to select from the immense stores of our information with regard to metals and mining that class of facts which is best calculated to please and interest the young, and thereby instill into their minds a love for useful and practical information. All who have arrived to the age of maturity are well aware of the difficulty with which the attention of young people is drawn to the dull details of most subjects of science, and the facility with which the same youthful minds become interested in the more attractive subjects embraced in the light literature of the day. With the hope of doing something to change the dangerous tendency of the literary taste of the day, the author of the "Play Book of Metals" has endeavored to carry the reader through the somewhat tedious and lengthy history and philosophy of the metals, by clothing his instructions in familiar language, combining, wherever practicable, the idea of amusement with instruction, and interspersing the same with numerous pictorial illustrations as helps to the memory and pleasure to the eye. So well has he succeeded in this effort, that by merely looking through the pictures of this book, a person may gain at a glance the first and most simple rudiments of a knowledge of the metals. While this work has been more particularly adapted for the young, it will also be found of much practical value to the adult. By its perusal and study a vast fund of information may be obtained with regard to the science of the miperals and metals; the numerous, useful purposes to which they may be applied, their mechanical and chemical structure, composition, etc. A large number of useful and interesting chemical experiments are described and familiarly illustrated—such as may readily be performed in the family circle or miner's cabin. The work comprises about 500 pages illustrated by 300 engravings, and may be obtained of A. Roman & Co., in this city.

SODIUM AMALGAM AN AMERICAN DISCOVERY.

Since making the announcement of our intended experiments with the use of sodium amalgam, we have received a call from Dr. A. F. W. Partz, of the firm of Partz & Buck, assayers, New York, from whom we have learned that there is an American patent on the use of sodium and potassium amalgam for the amalgamation of the precious metals. The discovery of the use of this new aid to the process of amalgamation was made by Prof. Henry Wirtz, of New York city, a native of this country, and hence it is an American invention. The patent was obtained about a year ago, although the discovery was made some four years since. This, it will be seen, long antedates the reported English discovery, lately announced in the London *Chemical News*. The patent is now in the hands of a company, known as the "Wirtz Amalgamation Company," of which our informant, Dr. Partz, is a member. The inventor has been occupied, more or less, for the past two years, in making an elaborate series of experiments, with the view of showing the utility and proper use of this new aid to amalgamation. The delay in the introduction of the invention has been chiefly owing to the difficulty at first encountered in procuring sodium in sufficient quantities for practical use. That difficulty is now entirely removed, and the metal can be readily obtained, at moderate cost, to any desired extent. The experiments are now so far completed that they are making arrangements to introduce their discovery to the mining public, which will soon be done on a scale of liberality which will doubtless induce its general introduction, and remove all disposition on the part of any one to make any covert use of this important discovery. As soon as the necessary preliminaries are completed, we shall make the same known through the columns of the Mining and Scientific Press, together with a full and detailed account of the elaborate experiments which have been so long in progress, under the especial supervision of the inventor. For the reasons above set forth, we have deferred any experiments of our own, as proposed in our issue of the 23d ult., preferring to accept results direct from headquarters.

A Celestial Visitor Approaching.—Biela's comet, now approaching its perihelion, will soon be visible. It is now distant about 110,000,000 miles. On the first of November next it will be close to *Alpha Pegasi Markab*, one of the four bright stars forming the well known square of Pegasus. It then pursues a southerly course, crossing the celestial equator about the middle of December. It then crosses its old path in 1864, near where it separated into two comets. At the end of February its distance from the earth will be less than 20,000,000 of miles. This comet's period is about six and three-quarter years.

Godey's Ladies' Book.—We have received the September and October numbers of this useful and interesting publication, published monthly, at Philadelphia, and edited by Mrs. Sarah J. Hale and Louis A. Godey. This standard publication has now reached its seventy-first volume, and is one of the best conducted publications of the kind in the world. It is ever rich and replete with everything that should make it a welcome visitor to every center-table. The Lady's Book is furnished for $3 a year, or $5 50 for two copies to one address.

A Mining Stock Board has been established at Colorado, to be known as the "Mining Board of Gilpin county, Colorado. It is organized upon a basis similar to the Mining Boards of this city. Any persons wishing to transact business with this Board should address George E. Wilson, Corresponding Secretary, Denver, Colorado.

A Fossil Man.—The Abeille *Bugey* says that "a fossil man has just been dug up in a bed of drift, between Veyziat and Oyonnax, near Nantua, (Ain). The body was found in an inverted posture, but the bones did not adhere together, and were brought out one by one."

IMPORTANT MINING SALE.

We have already stated that negotiations were in progress by certain parties in this city and Grass Valley for the purchase of the Eureka mine, Grass Valley, which has been owned and worked for several years by Jules Fricot & Co. This mine was worked for several years at an inconsiderable depth only, the rock paying but a little over expenses. Soon after it came under the management of Mons. Fricot, (familiarly known as "the Emperor,") that gentleman, with characteristic liberality and energy, determined upon its thorough development in depth. His judgment and perseverance were most amply rewarded, in proving the existence of one of the most valuable mines on the Pacific coast. After sinking to the depth of about 200 feet, the prospects were such as to warrant his putting up expensive machinery for hoisting and crushing, which machinery went into operation last spring. For the last three or four months the mill, crushing but twenty tons per day, has realized a net profit to the company of $25,000 per month. The ore now being raised from the 200 foot level is paying at the rate of $50 per ton.

The parties into whose possession the mine has just passed are the brothers Watt of Grass Valley, and several San Francisco and New York parties, who have purchased, not for speculation, but with the view of a permanent investment. The amount for which it was sold is $400,000 in gold, the first instalment of which has been paid. The property is divided into twenty shares of $20,000 each—unincorporated—and carries with it, besides the mine, one of the finest and most substantial mills in California, capable of reducing about twenty tons of ore per day. This capacity will soon be increased, by the new proprietors, to double that amount. The Messrs. Watt, who have been long connected, as the managing partners, with another Grass Valley mining company, and one of the most successful in the State, are to have the immediate charge of this new property. Under their management, it cannot fail to prove a most profitable investment, and add largely to the already well established reputation of Grass Valley, as the most important mining town in California.

The Hanscom Copper Mine.—Gradually, but steadily, our productive copper mines are increasing in number. One of the latest valuable strikes we have to record is that of the Hanscom Copper Mine, in Low Divide District, Del Norte county. This company have been running a tunnel for some two years, and finally, at a distance of 440 feet, recently reached the lode at a depth of 175 feet. The lode opens eighteen inches thick, twelve inches being deep yellow or bronze sulphuret ore, with three inch veins of black oxyd on each side, accompanied with all the evidences of a permanent, well-defined ledge. The ground is favorably located for prosecuting the work to advantage. Assays made in this city, from average samples of the sulphuret ore, show a yield of about 27 per cent. copper. From our own observations, we are led to believe that the Hanscom has been one of the most economically managed mining corporations in this city, and for that, as well as other reasons, we shall expect soon to see it rank among the first-class of paying mines. This development of the Hanscom mine affords encouragement for neighboring miners to prosecute their work with vigor. We have long maintained that an intelligent and economical outlay of capital is all that is necessary to make Del Norte county famous for its rich and profuse deposits of copper ore.

Rare Mineral.—The Austin *Reveille*, of September 1st, says:

We were shown to-day by Riotte, at Theall & Co.'s assay establishment, several fine specimens of a rare and beautiful mineral known as molybdenite, which is the constant and invariable companion of tin ore. This mineral is found in specimen in Cornwall, but more frequently and in larger masses in Altenberg, in the district of Freiberg. Its presence here would lead us, reasonably enough, to anticipate the discovery of tin ore.

A SIMPLE PROCESS FOR EXTRACTING COPPER FROM ITS POOR ORES.

The importance of some process by which the enormous quantities of poor copper ores annually raised from our mines, and at present of little or no value, is so generally admitted that much interest naturally attaches to every possible invention and experiment bearing upon this subject. It is with this view that we give the subjoined "process;" not because it is anything especially new, but because of the experimental data which has been furnished in this connection by W. J. March, C. E. These experiments were made in the Atlantic States, but where we are not informed. In localities where timber is abundant, and where old iron can be obtained at a cheap rate—either scrap or cast iron—we see no reason why the process may not be employed with a good degree of success and economy. We would suggest that some of our copper miners should institute a series of experiments similar to those detailed below, and send a report of the same to this office for publication. If the experiments are undertaken, let us have the results, whether favorable or otherwise. We trust that some one of the many who may be favorably situated, may act upon our suggestion; and that ere long the profitable treatment of much of the poorer class of our copper ores, now a positive inconvenience at many of our mines, may be demonstrated by actual experiment.

This process for working up copper ores that are too poor in metal to bear transportation from the mines, is very old, and has long been practiced in Europe. Yet its introduction into this country, I believe, is new; and with the alteration of a few of the details that I have made to it to render the operation more speedy, will make it a very desirable acquisition to a great many of the mines in this country.

Its simplicity, and also the trifling expense at which it may be started and kept going, is also a great recommendation in its favor.

It consists simply, first to convert the ore into a sulphate by burning in heaps with brushwood, or roasting in a furnace; then lixivating the burnt ore, and precipitating it with old iron.

In order to comprehend the details of the operation more readily, I will give them separately.

1st. *Roasting or Calcining the Ore.*—The entire success of the whole process will depend upon this being well done. In the first place, the ore should contain from 20 to 30 per cent. of sulphur, either mineralized with the ore, or in the state of mundics, or pyrites; should the ore not contain the requisite amount, mundics, or pyrites, must be added to it; should there be more, it will be all the better, only more liable to melt.

I have found twenty-five tons to a heap the best size for complete work at a single roasting; I therefore give the dimensions for that size:—

First, six logs about a foot or nine inches through, and twelve feet long, must be laid iron works best in cold water.

The iron is put in proportion of about four pounds to the gallon; it should be disposed in the tubs in such a manner as to expose as much surface of metal to the action of the water as possible, and to reach nearly to the top of the tub, as the strongest action is from the surface to the centre.

As there is usually two or three parts of sulphate of iron to one of sulphate of copper present, the solution consequently does not remain long clear. While it froths freely, it is doing very well; but when the sulphates commence to crystallize on the surface, and slimy flocks of hydrate of iron are seen floating about, the iron must be taken out, the water allowed to settle, and the clear portion of it syphoned off; the remainder, which is principally sulphates, and hydrate of iron, by filling up again with clear water, are re-dissolved, and so much disseminated, that, by putting back the iron, the remainder of the copper in solution is soon precipitated.

In the water that has been syphoned off, more iron is added, and it will precipitate itself without further trouble.

When the water will no longer coat a knife blade, the copper is all out of it. In cleaning off, the iron is scraped clean of the copper attached to it, and put aside for further use. If it is intended to convert the mother water into crystallized sulphate of iron (copperas), the clear portions must be only used for that purpose. The remainder is diluted until the copper is washed clean from the hydrates and carburets of iron. It is then ready for melting into ingots, or boxing up and selling to the parallel to each other, and a little over two feet apart, so as to cover an area of twelve feet square. (The logs may be in two lengths, and placed end to end.) The vacancies between the logs must be filled with small dry wood that will kindle easily; then covered with poles or rails twelve feet long, and three to six inches through, laid across the logs and close together, in order to prevent the ore from falling through too soon. Then throw a layer of brushwood on the platform thus made, and cover it with ore, and keep putting on alternate layers of brushwood and ore, sloping in the side about 50 to 55 degrees, until the twenty-five tons is all on the heap, it will then be about eight feet high. It is now finished, and can be set on fire at pleasure; firing the alternate ends of the five furnaces, three to windward and two to leeward. It must be allowed to burn until it goes out.

Larger sized heaps should have chimneys through them, made by placing three good-sized poles together on end in the heap. Even one or two in the above size heap I believe is a great advantage.

If the ore does not contain above 4 or 5 per cent. of copper, one burning, if well done, will be sufficient to convert it all into sulphate—should it contain above that amount, it will take from two to three burnings.

Roasting the ore in a reverberating furnace would be much more complete and speedy, but the cost would be much increased.

2d. *Leaching the Burnt Ore.*—After the ore has become cool, it is thrown into large hoppers, and warm water thrown on it at regular intervals, sufficient to keep it running steadily. Cold water will answer, but the warm dissolves it more rapidly, and it is sooner leached out. The water can easily be warmed by plunging hot iron into the buckets before throwing it on the hoppers.

The hoppers are kept running until the water from them becomes so weak as to hardly coat a knife blade; the hoppers should then be emptied and a fresh charge of unleached ore be supplied.

3d. *Precipitating the Solution.*—The solution as it comes from the hoppers is thrown into barrels, tubs, or vats of any convenient size, to which is added old iron, such as broken castings, and scrap iron of any sort; but cast-smelters.

I have found the precipitation is very much hastened by putting the solution and iron into a copper boiler, and keeping it almost to a boiling heat until the copper is all out, merely taking care that the solution is not enough to throw down too much hydrate, which retards the work.

A fifty-gallon tub would take about eight days of summer weather to precipitate into cold solution, while a fifteen-gallon boiler would precipitate forty-five gallons in twelve hours, and use a smaller proportion of iron to work with.

It takes one pound of iron to precipitate a pound of copper, there being considerable waste through "graphite" and other impurities in the iron.

The cost of working this process would of course vary in different sections of country, but in order to give some idea of its trifling expense, I subjoin the costs of three lots that I manufactured with particular attention as to the expense; merely prefacing that the ore I used was a mixture of decomposed sulphurets, taken as it came from the mine, and required no addition of sulphur being made to it:

	No. of Tons Burnt.	Percentage in Copper.	Percentage in Sulphur.	Number of Times Burnt.	Cost of Burning per Ton.	Cost of Leaching and precipitating a Ton.	Pounds of Iron used per Ton of Ore at 2c. per lb.	Pounds of Copper made to Ton of Ore.	Total Cost per Ton.	Total Value per Ton.
No. 1	20	3.00	35.00	1	7½c	$1,40	64	53	$2,75½	$ 13,25
No. 2	10	6.00	40.00	2	8c	1,65	120	96½	4,21	24,12½
No. 3	6	8.00	50 00	2	8½c	1.90	145	101½	4,97	26,12½

I should have remarked, under the head of burning the ores, that the very sulphurous ores being easily fused, are apt to deposit more or less regulus at the bottom of the heaps; this, it is needless to say, should not be put into the hoppers. Yet, as it is usually several times richer in metal than the ore, it may, if rich enough, be sold to the smelters in that state. But if too poor to bear transportation, it can be put in the bottom of the next heap, where it will be re-melted, and come out rich enough next time.

In No. 1, I found 600 lbs regulus containing 7.30 per cent. copper.

In No. 2, in the second burning, I had 400 lbs of 13.25 per cent. copper.

In No. 3, in the second burning, I had 560 lbs of 14.00 per cent. regulus.

A neighboring company, in a heap of about 40 tons of 9.00 per cent. ore, procured 1,800 lbs. of regulus, that reached 15.00 per cent. in one burning.

There is a small percentage of loss as given in the original table, accompanying the article, which we copy from the *Mining Magazine* of New York; but its detail is evidently accompanied with an error which makes that portion of it of no value. The "loss" by this process, when closely manipulated, need not exceed the half of one per cent. of the assay. Any person may conveniently arrange a "hopper," or simply an inclined table, upon which the sulphates may be placed for lixivation, and from which the solution may be conveyed by troughs to any convenient receptacle. A barrel, or series of barrels, may be used. If any party who will undertake the experiment should be desirous of further information, we will cheerfully give it in writing, together with a rough draft of the arrangement of hoppers, barrels, etc.

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Dentist Work.—Messrs. Knowles & Clark have an improved method of combining their gold and vulcanite material in the manufacture of dentistry, which renders the work superior in finish and durability. The samples of their hand-work on exhibition at the late Fair were much admired, and we observe that they were awarded a first premium diploma.

The Black Hawk Mining Company of Colorado, whose mills and other property was recently valued at $2,500,000, has shut down because it cannot pay expenses. The trouble is bad management. The mine paid well a couple of years ago, when in the hands of private parties.

The Reese River *Reveille* understands that General Dunn will make Austin his permanent home. He has purchased the Union quartz mill, one of the first erected in that place, and will manage that and the mines belonging thereto.

The Latest "Dodge" of the match manufacturers to avoid the internal revenue tax is to make long matches and dip both ends in the brimstone. They must then be broken in two before they are used.

Treasure Receipts.—The receipts of treasure from the interior for the month of September, aggregate $4,000,000.

Narrow Escape from Drowning in a Mine. During the recent flood in Ohio, the water broke into the Muhoning coal mine, in which four men were at work. They climbed to the top of the slope and managed to keep from drowning, and fortunately as the river fell the water stopped flowing in. They remained thus walled in until parties above bored down fifty feet to the top of the slope. Two of them became insensible, and in the meantime they were attacked by swarms of rats which were driven out of their burrows by the water; but the vermin were kept off by a dog. All were eventually got out alive.

An Indian's Idea of Machinery.—Some chiefs of Canadian Indians, a few days ago, saw a sewing machine in operation for the first time. One old chief, with a lamp, watched the motion beneath the table, and the rest kept their eyes upon it above, to see there were no "white lies" about it. They then compared notes, threw themselves upon the floor and rolled about laughing and crying out, in Indian, the "Sewing Spirit." They had no idea that it was the spirit of man's intelligence which put it in such successful motion.

Bad for the Blood.—The Prince of Wales won't go to the naval fetes at Cherbourg, because there will be no Prince of the blood to receive him; and the French Minister of Marine (Laubat) also refuses to go, because there will be no English Lord of the Admiralty present.

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GOLD DIGGING IN VIRGINIA.—A writer in the Richmond *Republic* gives the following concerning the Virginia gold mines: "Those who returned from the wars too late to put in crops are very busy washing gold from the branches and mines. I suppose there are two thousand miners at work getting gold in Goochland and Louisa counties; they average two pennyweights a day each miner. I have heard that they are working in Buckingham, Culpepper, Fluvanna and other counties. The gold mines have never been fully developed. The quartz veins are large and very rich, and would pay well. But not a single quartz mill is working in the gold districts. In a few places some are working with stone and iron mortars, and in that rude way doing very well. There will a brighter day dawn upon the mining interests of Virginia before fall."

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Steam Engine and Locomotive

BUILDERS,

Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as

Mining, Steamship, and Steamboat Machinery,

Railroad Machinery, Flouring Mills,
Locomotives, Quartz Mills,
Car Trucks, Sugar Mills,
Car Wheels, Saw Mills,
Housings and Irons; and

Manufacturing Machinery of Every Kind.

Sole Manufacturers of

HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR;
BETTS'S AMALGAMATOR;
HERSEE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;
BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;
PAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;
JONES'S IMPROVED OVER SHOT WATER WHEEL;
STEVEN'S PISTON PACKING RINGS.
LEFFEL'S AMERICAN DOUBLE TURBINE WATER WHEELS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.

Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

JOHN F. GALLAGHER. JOSEPH WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to. Prices moderate. ☜

No. 125 First street, opposite Minna, next door to Pacific Foundry. 12tf

[Removed from Oregon street, between Front and Davis.]

SMELTING SILVER ORES.—It would appear from the following item which we clip from the Colorado *Mining Journal*, that a fire process for working silver ores has been successfully introduced into the Colorado mines :

Mr. Johnson called this afternoon with *five hundred ounces of pure silver*, taken by him from four and one half tons of ore, it being a part of that which remained from the first charge smelted at Lyon's Smelting Works. Other and grander results have been achieved, but which are not as yet allowed publication. The complete success of this experimental smelting of Colorado ores, some of them most refractory, is now established, and the millenium for which we have so eagerly looked has dawned upon our mines. May triumph attend all the efforts of Lyon & Johnson.

SAN JOSE INSTITUTE

—AND—

COMMERCIAL COLLEGE,

LOCATED AT SAN JOSE, CAL.

MALE AND FEMALE.

The next session of this Institution will commence on

Monday, July 31, 1865.

An experienced and competent BOARD OF INSTRUCTION is engaged, and every facility will be afforded for a thorough course of study, both in the Academic and Commercial Departments.

Catalogues, containing full particulars, furnished upon application to F. GATES, Director,
25v10-3m San Jose, Cal.

SANTA CLARA COLLEGE, S. J.,

SANTA CLARA, CAL.

Conducted by the Fathers of the Society of Jesus.

The FIFTEENTH ANNUAL SESSION of this College will commence on

Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $350

For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco.
3v11 REV. A. MASNATA, S. J., President.

UNION IRON WORKS,

Sacramento.

WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Dunbar's Patent Self-Adjusting STEAM PISTON PACKING, for new and old Cylinders, manufactured to order.

Front Street, between N and O streets,
14v11 SACRAMENTO CITY.

GEORGE T. PRACY,

MACHINE WORKS,

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

SAN FRANCISCO.

STEAM ENGINE, FLOUR AND SAW MILL And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

☞Special attention paid to Repairing.☜ qy-3

FULTON

Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

MITCHELL'S

COMBINED

FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with GALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.

San Francisco, Aug. 22d, 1865. 10v11-3m

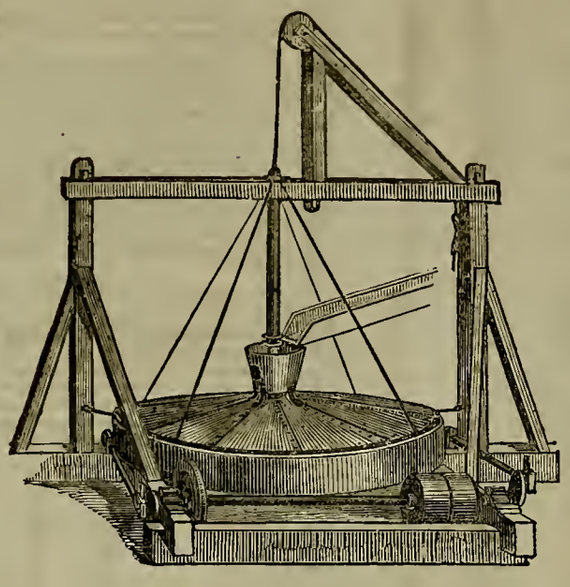
GOLD AND SILVER ORES.

UNDENIABLE FACTS FOR THE MINING PUBLIC.

At the Exhibition in the Fall of 1861, the Mechanics' Institute awarded a Premium to

E B. PRATER,

FOR THE BEST CONCENTRATOR.



The proprietors of this Concentrator feel satisfied that IT HAS NO EQUAL IN USE. Large numbers of these Machines are now in successful operation in all parts of this State, Arizona, Nevada, Colorado and Mexico. The principle of this machine, which is designed for a Concentrator exclusively, is entirely new. It is designed for separating finely divided quicksilver, amalgam and gold from the sands, and for concentrating and saving the sulphurets, and is to be placed behind all or any other machine in use.

One of these Concentrators can be seen in operation at Messrs. Kimble & Murphy's Metallurgical Works, Bryan street, between Third and Fourth, San Francisco.

Circulars sent free, giving description and reference as to working, etc., on application to

HUNGERFORD & HENDY, Proprietors

2v11-1am **Express Building, Room No. 3 (fourth floor) San Francisco.**

BY AUTHORITY OF THE STATE OF CALIFORNIA

Having fully complied with the law by a deposit of $525,000 bonds of the State of California and the United States

BIGELOW & BROTHER,

GENERAL INSURANCE AGENTS,

FIRE, MARINE AND LIFE INSURANCE,

Capital Represented.....$15,000,000.

California Deposit..... $525,000

Office Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.

LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets	$1,500,000
HOME INSURANCE COMPANY, of New York, Assets	3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets	2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets	1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets	600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets	600,000
CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.	

Policies issued on Freights, Cargoes, and Treasure, from and to All Parts of the World. Voyage War Risks taken on Hulls.

Fire Insurance Policies issued on all kinds of Insurable Property in the Country or City. Losses Payable in Gold Coin of the United States.

We represent the Oldest and Best Companies in the United States, and offer as favorable terms as any agency on this Coast.

Losses paid immediately on adjustment.

BIGELOW & BROTHER,

17-6m **General Agents**

PALMER, KNOX & CO.,

Golden State Iron Works,

Nos. 19, 21, 23 and 25 First Street,

SAN FRANCISCO.

MANUFACTURE ALL KINDS OF

MACHINERY,

STEAM ENGINES AND QUARTZ MILLS

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S

NEW GRINDER AND AMALGAMATOR,

HEPBURN & PETERSON'S

AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

SAN FRANCISCO

Foundry and Machine Works,

N. E. Cor. Fremont and Mission streets,

Manufacturers of

Marine and Stationery Engines,

Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.

—ALSO—

Wine, Cider, Cotton and Tobacco Presses of the latest Improved Patterns.

Brodie's Improved Patent WIND BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Baux & Guiod's Amalgamator and Separator; W. W. Tupper's Patent Sectional Grate Bar; Coal Oil Well Boring Machinery complete, on hand.

STEAM ENGINES AND BOILERS,

Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.

MACHINERY, OF ALL DESCRIPTIONS,

Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates.

6v11-1y **DEVOE, DINSMORE & CO.**

Novelty Iron Works,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY*. Send for a Circular.

E. T. STEEN.

39 and 41 Fremont, and 42 and 44 Beale Sts.

SAN FRANCISCO 2Iv9tfq

PORTLAND BOILER WORKS

MOYNIHAN & AITKEN,

Nos. 311 and 313 Mission street, San Francisco.

All kinds of HIGH AND LOW PRESSURE BOILERS built according to drawing or specification, and sheet-iron work executed at the shortest notice, on the most reasonable terms. 1df

T. MOYNIHAN. J. AITKEN.

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, San Francisco. qy29-t

JOHN LOCHHEAD'S

STEAM ENGINE WORKS,

Beale Street, near Mission Street,

SAN FRANCISCO.

Steam Engines of every description built to order—Marine Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer.

LEWIS COFFEY. J. S. RISDON

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality. Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

THE London *Building News* states that the large roof which covers the Imperial Riding School, Moscow, hitherto the largest in the world, is about to take its position as second on the list, as it is intended to cover the new Loudon terminus of the Midland Railway Company with a wrought iron roof of 240 feet clear span, being five feet wider than the Moscow roof.

AN invention is to be introduced in New York designed to make the starting of loaded street cars an easy matter for the horses. It is described as consisting of the application of a lever, pawl and racket, in combination with the draught rod, or its equivalent, to the axle of a vehicle in such a manner as to save over one-half the power now used in starting.

OUR NEW YORK AGENCY.

MR. GEO. M. NEWTON is our authorized agent in New York City, and will receive advertisements and subscriptions for the MINING AND SCIENTIFIC PRESS at regular rates. Sample copies of our weekly and monthly issues can be procured by calling upon him, at the office of the "STOCKHOLDER," **No. 72 William street.**

Mining and Scientific Press

JOB PRINTING OFFICE,

No. 505 Clay street, corner of Sansome.

CERTIFICATES
—OF—
STOCK
—FOR—
MINING
—AND—
PETROLEUM
Companies
Neatly Printed.

Stock Certificates of all kinds embellished with wood cuts and electrotype engravings. We devote special attention to the execution of all kinds of work required by Mining Companies, Machinists and Manufacturers.

THE STYLE

—FOR—

Fall and Winter, 1865,

Will be Introduced Aug. 26, at

MEUSSDORFFER'S

HAT MANUFACTORIES,

Nos. 635 & 637 Commercial st., San Francisco,

No. 125 J st., bet. Fourth & Fifth, Sacramento.

Corner D and Second Streets, Marysville.12v11

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Apollo Gold and Silver Mining Company.

Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Bradley, H W	24	5	$2 50
Buel, D E	8	10	5 00
Buel, D E	11	10	5 00
Buel, D E	12	10	5 00
Buel, D E	13	10	5 00
Buel, D E	14	10	5 00
Buel, D E	15	10	5 00
Buel, D E	17	10	6 00
Buel, D E	18	10	5 00
Chevers, W H	30	5	2 50
Deitrich, W R	62	5	2 50
Filton, James	73	10	5 00
Filton, James	74	10	5 00
Filton, James	75	5	2 50
Harrington, W C	102	1	50
Hildreth, H P	79	112	56 00
Jacobs, N B	40	3	1 50
Leppien, Fred	43	3	1 50
Leppien, Fred	96	12½	6 25
Leudenberger, T E	1	1½	75
Light, C H	21	9¾	4 69
Litchfield, W D	45	1½	75
Litchfield, W D	97	1½	75
McMareus, M	94	9¾	4 69
Smith, A N	54	25	12 50
Waterman, E R	39	3	1 50
Wilton, E W	80	20	10 00
Wightman, John	27	11	5 50
Work, Geo	32	5	2 50
Work, J W	41	3	1 50

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Jones & Bendixen, auctioneers, at the office of the Company, on the 23d day of October, 1865, at the hour of 1½ o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. oc7

Blue Ledge Gold and Silver Mining Company, Lauder County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Abrams, M	102	6	2 50
Allen, B H	113	12½	6 25
Allen, H H	123	2	1 00
Armer, Max	75	5	2 50
Ayers, W O	107	10	5 00
Blake, G M	101	2	1 00
Blake, G M	172	1	50
Backman, D	163	20	10 00
Bowman, Jno F	74	5	2 50
Dettleback, S M	10	2½	1 25
Dettlebaek, S M	115	5	2 50
Drinkiespiel, L	133	6	2 50
Frank, J	125	10	5 00
Frank, J	173	2½	1 25
Greeae, S H	4	10	6 00
Greene, S H	81	2	1 00
Harrington, W C	200	1	50
Harrington, W C	209	20	10 00
Haas, C S	169	8¾	4 37
Heath, R W	6	20	10 00
Heatb, R W	86	2	1 00
Heatb, R W	111	12½	6 25
Heineburg, A	174	2½	1 25
Herman, S	141	5	2 50
Jacobs, N B & Co	171	4	2 00
Leppien, Fred	85	2	1 00
Levy, Isaac	150	10	6 00
Levy, Isaac	157	10	5 00
Levy, Isaac	168	6	2 50
Litchfield, W D	97	1	50
Litchfield, W D	201	1	50
Marks, S	193	6	2 50
Manheim, —	161	5	2 50
Meyer, Eugene	145	3	1 50
Meyerfeld, M	139	10	5 00
Meyerfeld, M	179	10	5 00
Rosenbaum, F H	11	2½	1 25
Simonsfeld, Julius	99	5	2 50
Sinsheimer, S	180	2	1 00
Sharp, H	159	3	1 50
Smith, A N	17	25	12 50
Strauss, M	98	6	2 50
Strauss, M	168	3¾	1 87
Strauss, M	175	6	2 50
Stateler, J W	134	10	5 00
Stateler, J W	135	10	5 00
Stateler, J W	136	10	5 00
Stateler, J W	137	10	6 00
Stateler, J W	138	10	5 00
Watriss, Geo E	207	34 13 16	17 40
Waterman, E R	155	2	1 00
Weusinger, F S	7	20	10 00
Weill, Alex	62	5	2 60
Weill, Alex	103	2½	1 25
Weill, Alex	117	2½	1 25
Wightman, Jno	83	4	2 00
Winans, John G	94	1	50
Work, J W	87	2	1 00
Woodleaf, H	126	10	6 00
Woodleaf, H	127	10	5 00
Solomon, Sylvan	119	1	60

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of September, 1866, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Jones & Bendixen, at the office of the Company, on the 23d day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front, street, San Francisco, Cal. oc7

Black Ledge Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Ayres, W O	93	27	$54 00
Bonestel, C D	172	10	20 00
Bouestel, C D	173	10	20 00
Bonestel, C D	174	10	20 00
Bonestel, C D	175	10	20 00
Bouestel, C D	176	10	20 00
Bonestel, C D	177	10	20 00
Chevers, Wm H	25	5	10 00
Deitrich, W K	28	5	10 00
Dawley, H L	99	5	10 00
Gayle, A B, trustee	169	8	16 00
Gayle, A B trustee	185	2	4 00
Gayle, A B, trustee	188	50	100 00
Gayle, A B, trustee	189	9	18 00
Grondolfo, A R	115	12	24 00
Harker, W B C	35	2	4 00
Harrington, W C	191	70	140 00
Harmon, F H	156	10	20 00
Heath, R W	16	8	16 00
Jacobs, N B	52	2	4 00
Knox, J W	155	2	4 00
Laforge, A B	188	25	50 00
Lepplen, Fred	55	2	4 00
Litchfield, W D	57	1	2 00
Litchfield, W D	151	1	2 00
Morrison, J C Jr	49	15	30 00
McMauus, M	109	8¼	12 60
Nicol, W	91	1	2 00
Owen, I C	157	5	10 00
Rosenbaum, F H	90	6	10 00
Stateler, J W	70	25	50 00
Townsend, Jas B	142	13	26 00
Waterman, E R	51	2	4 00
White, Joseph	97	15	30 00
Winans, Jno C	62	1	2 00
Work, J W	53	2	4 00
Work, Geo	27	6	10 00
Work, Geo	107	6	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Jones & Bendixen, at the office of the Company, on the 24th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. oc7

Constitution and By-Laws

—OF—

Mining and Prospecting Companies

Elegantly printed, with care and dispatch, at the office of the **Mining and Scientific Press.**

☞ Orders from the interior faithfully attended to.

Bolinas Petroleum Company, Bolinas Township, Marin County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 2d day of October, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said company, payable on the 3d day of October, 1865, in United States gold and silver coin, to the Secretary, 611 Clay street, Room 8, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 4th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 20th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. L. KIRBY, Secretary.

Office, 611 Clay street, San Francisco, Cal. oc7

Evoca Consolidated Copper Mining Company, Court Hill District, near Black's Ferry, Del Norte County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of October, 1865, an assessment of fifty (50) cents per share was levied upon the assessable capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 302 Montgomery street City and County of San Francisco, California.

Any stock upon which said assessment shall remain unpaid on the 4th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 20th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

CHARLES E. ABBOT, Secretary.

Office, 302 Montgomery street, Room 6, third floor, San Francisco, Cal. oc7

Joe Lane Gold and Silver Mining Company, Lauder County, Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Allen, H H	31	10	$5 00
Austin, C H	130	8	4 00
Ayres, W O	94	76	37 00
Baker, Fred	105	10	5 00
Baker, Fred	106	10	5 00
Baker, Fred	107	10	5 00
Baker, Fred	108	10	5 00
Bell, S B	124	10	5 00
Buel, D E	1-5	1	50
Carroll, F P	110	90	45 00
Carroll, F P	131	20 13-18	10 40
Chevers, W H	12	5	2 50
Dawley, H L	132	20	10 00
Deitrich, W K	36	6	2 50
Filton, Jas	75	10	5 00
Filton, Jas	76	10	5 00
Filton, Jas	77	5	2 50
Gentry, Abner	84	25	12 50
Harrington, W C	143	20	10 00
Hall, J J	127	10	5 00
Heath, R W	6	9	4 50
Heatb, R W	92	25	12 50
Jacobs, N B & Co	89	7	3 50
Knox, J W	128	10	6 00
Leppien, Fred	5	2	1 00
Litchfield, W D	120	1	60
Litchfield, W D	19	1	50
McManus, M	104	6¼	3 12
Nicol, W	93	1	50
Rosenbaum, F H	91	4	2 00
Stateler, J W	128	25	12 50
Spire, C D	123	2	1 00
Waterman, E R	78	2	1 00
Watriss, Geo E	140	25	12 50
Welton, E W	88	25	12 50
Wightman, Jno	10	9	4 50
Work, Geo	14	5	2 50
Work J W	16	2	1 00

And in accordance with law and an order of the Board of Trustees, made on the 4th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Jones & Bendixon, at the office of the Company, on the 23d day of October, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. oc7

Segregated Belcher Mining Company, Gold Hill District, Storey County, Nevada.

NOTICE.—There are delinquent upon the following described Stock, on account of Assessment levied on the 7th day of September 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Burke, E R	2 3 4 5 6 7 8 9		
	10 100 ea	900	$1800 00
Burke, E R	11 12 13 10-ea	30	60 00
Burke, E R	14	3	6 00
Blasdell, H G	43 44 45 48 47		
	48 49 50 20-ea	160	320 00
Blasdell, H G	61 52 53 54 55		
	55 57 58 10 ea	80	160 00
Blasdell, H G	59 60 61 62 63		
	64 65 66 67 68		
	69 70 5-ea	60	120 00
Blasdell, H G	71 72 73 74 5-ea	20	40 00
Livingston, F	85 86 200-ea	400	800 00
Wheeler, C T	20 21 22 23 24 40-ea	200	400 00
Wheeler, C T	25 26 27 28 29		
	30 31 32 33 34 20-ea	200	400 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, at the salesroom of J. Middleton & Son, 404 Montgomery street, San Francisco, on the 23d day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

JOHN LOHSE, Secretary.

Office, 318 Montgomery street, up stairs. oc7

Lost or Stolen.

There was lost, or stolen, from our collection of minerals, etc., at the Mechanics' Fair, a sample of the late Telegraph Cable. The lost piece is three inches in length, by one and one-sixteenth in diameter; brass ferrel on each end with raised letters, viz: "Glass, Elliott & Co., Contractors, London." Any person who will return the article to this office, or give information of its whereabouts, will be suitably rewarded.

DEWEY & CO.,

Publishers Mining and Scientific Press.

Notice.—The Stockholders of the San Fernando Petroleum and Mining Company are requested to attend a meeting at the Office of the Company, on the first Monday in October, for the purpose of electing officers for the ensuing year.

A. N. CLARKE, Secretary.

ADJOURNMENT.—The above meeting was adjourned by a minority of the Stockholders, to the first Monday in November.

A. N. CLARKE, Secretary.

Office, 121 Montgomery street, San Francisco. oc7td

Yankee Blade Tunnel Company, Reese River District, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 1, levied on the 16th day of January, 1864, and assessment No. 2, levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Assessment No. 1, levied January 15, 1864—

Names.	No. Certificates.	No. Shares.	Amount.
C B Harwood	not issued	200	$100 00
T F Gould	not issued	200	100 00

Assessment No. 2, levied Sept. 4, 1865—

Names.	No. Certificate.	No. Shares.	Amount.
C B Harwood	not issued	200	$60 00
C B Harwood	8 & 9 50-ea	100	30 00
J F Durkin	not issued	100	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Secretary, 305 Montgomery street, San Francisco, by Olney & Co., auctioneers, on the 27th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, San Francisco, Cal. oc7

Mining Notices--Continued.

New Mining Advertisements to be found under another heading.

Bella Vista Gold and Silver Mining Company, Cacachilas District, Lower California.—San Francisco, September 9th, 1865.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of September, 1865, an assessment of thirty (30) cents per share was levied upon the capital stock of said company, payable on the 10th day of September, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, 326 Clay street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. FULLER, Secretary.

Office, 326 Clay street, San Francisco. se14

Edward Everett Silver Mining Company, Cortez Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of April, 1864, an assessment of twenty cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary..

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner Clay and Front streets, San Francisco, California. sc9-5w

Good Hope Gold and Silver Mining Company, Alpine District, Alpine County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 11th day of September, 1865, an assessment (No. 9) of fifty cents per share was levied upon the capital stock of said company, payable on or before the 9th day of October, 1865, in United States gold and silver coin, to the Secretary, at his office, 526 Montgomery street, San Francisco, or to H. Morris, at Markleeville. [*Delinquents will be held for accruing costs after the 9th of October.*]

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale, By order of the Board of Trustees.

PRESTON MORRIS, Secretary.

Office, 526 Montgomery street, San Francisco. se16

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Assessment No. 7.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, only, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, removed to 338 Montgomery street, San Francisco. se23

Ten Able-Bodied Copper Miners

WANTED,

At the Bunker Hill Mine,

To work for wages (three dollars per day), or on contract.

10v11-tf RICHARD POWNING, Superintendent.

Globe Gold and Silver Mining Company,
Monitor District, Alpine county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 23d day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount
C Kirby	1	10	32 00
J M James	2	16	32 00
Frederick Werner,	3	10	32 00
D Davidson,	4	10	20 00
Y Squarza	5	5	10 00
Y Squarza	6	5	10 00
Myrtilla Miner	7	10	20 00
I S Powers	8	50	100 00
I S Powers	9	50	100 00
I S Powers	10	10	20 00
I S Powers	11	10	20 00
I S Powers	12	10	20 00
I S Powers	13	10	20 00
I S Powers	15	5	10 00
I S Powers	16	5	10 00
I S Powers	18	5	10 00
I S Powers	54	30	60 00
I S Powers	60	50	100 00
Levi Miller	21	5	10 00
Levi Miller	22	5	10 00
Levi Miller	23	5	10 00
Levi Miller	26	10	20 00
Levi Miller	30	10	20 00
Levi Miller	32	10	20 00
L Pilkington	36	5	10 00
E D Williams	37	10	20 00
B Curran	38	5	10 00
Anthony McLean	40	5	10 00
William Gibbio	41	5	10 00
John Sutherland	42	10	20 00
E H Peterson	44	5	10 00
Peter Ramsey	45	10	20 00
Peter Ramsey	40	15	30 00
George Hogan	47	5	10 00
Mrs L M Irving	48	50	100 00
J W Clark	49	5	10 00
Charles Gent	52	25	50 00
Jonas Winchester	53	300	000 00
Nelson Sizer	55	10	20 00
Samuel R Wells	56	5	10 00
Lester A Roberts	57	10	20 00
Lester A Roberts	58	5	10 00
J B Pillington " not issued,"		25	50 00
D Davidson "		92	184 00
William Hannah "		25	50 00
I S Powers "		10	20 00

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Olney & Co., No. 626 Montgomery street, San Francisco, Cal., on the 12th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon together with costs of advertising and expenses of sale.

V. B. POST, Secretary.

Office, 1421 Taylor street, San Francisco, Cal. sc23

Honest Miner Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 28th day of September, 1865, an Assessment of 50 cents per share was levied upon the Capital Stock of said Company, payable on the 30th day of September, 1865, in United States gold and silver coin, to the Secretary, 402 Front Street, San Francisco.

Any stock upon which said Assessment shall remain unpaid before Saturday, the 28th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 13th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front Street. se30

La Favorita Mining Company, Mocteznma District, Sonora, Mexico.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 30te day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
John W. Rourke,	76	30	$15 00
Henry Pforr,	30	5	2 50
Henry Pforr,	31	10	5 00
Henry Pforr,	31	20	10 00
Henry Pforr,	33	20	10 00
Henry Pforr,	34	40	20 00
Emilio Clausen, old No.	67	100	50 00
E. Schlott,	11	10	5 00
E. Schlott,	41	2	1 00
Hugo Dreschfeld,	8	5	2 50
C. Ziesenics,	17	5	2 50
C. Ziesenics,	63	10	5 00
Henry Schroeder,	57	10	5 00
Henry Schroeder,	60	2	1 00
Also, on account of assessment levied February 28th, 1865, advertised heretofore, but not bid upon :			
Emilio Clausen, old No.	67	100	200 00

And in accordance with law, and an order of the Board of Trustees, made on the 30th day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold at public auction, by Messrs. Olney & Co., at No. 626 Montgomery street, San Francisco, Cal., on the 14th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

ELKAN WASSERMANN, Secretary.

Office, 429 Sacramento street, San Francisco, Cal. se30

Mammoth Gold and Silver Mining Company,
Silver Mountain District, Alpine county, Cal.
Assessment No. 5.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, only, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 5th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary,

Office, removed to 338 Montgomery street, San Francisco. se23

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

North America Tin Mining Company, San Juan del Rio, State of Durango, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at his office.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 1st day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

I. N. THORNE, Secretary.

Office, No. 535 Clay street, San Francisco, Cal. se16

Ontario Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of September, 1865, an assessment of fifty cents per share, was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, or to T. P. CARROLL, at Austin, Nevada.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

A. H. BEWLEY, Secretary.

Office, 323 Montgomery street (Odd Fellows' Hall), San Francisco, Cal. se23

Old Colony Silver Mining Company, Austin, Reese River Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of September, 1865, an assessment of six dollars per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 523 Montgomery street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

H. O. HOWARD, Secretary.

Office, 523 Montgomery street, San Francisco. se15

Porter Gold and Silver Mining Company, Virginia District, Storey County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 19th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Cole, Delos	5	10	50 00
Grim, A K	109	10	50 00
Grim, A K	104	200	1000 00
Grim, A K	104	95 5-6	479 17
Marston, P F	98	10	50 00
Marston, P F	99	20	100 00
Page, R C	54	13¾	66 66¾
Page, R C	46	13¾	06 66¾
Stanchfield, L G	56	10	50 00
Stanchfield, L G	57	5	25 00
Stevens, T H	89	5	25 00
Smith, E F	92	12½	62 50

And in accordance with law, and an order of the Board of Trustees, made on the 19th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., at No. 427 Montgomery street, San Francisco, Cal., on the 14th day of October, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. W. WESTON, Secretary.

Office, 534 Clay street, San Francisco. se30

Pizarro Silver Mining Company, Cortez Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of November, 1863, an assessment of ten cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner of Clay and Front street, San Francisco, Cal. se16-4w

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of September 1865, an assessment of fifty (55) cents per share was levied upon the capital stock of said Company, payable on the 25th day of October, 1865, in United States gold and silver coin, to the Secretary, at his office, No. 228 Front street, San Francisco, Cal., or to GEO. T. TEAAY, Superintendent, Austin, Lander county, Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 28th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

E. J. DRINKHOUSE, Secretary.

Office, No. 228 Front street, San Francisco, Cal. se30

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine county, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 13th day of September, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable on the 14th day of September, 1865, in United States gold and silver coin, to the Secretary, at the Company's office, No. 55 Montgomery Block, in the city and county of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, S E. corner of Washington and Montgomery streets. Office hours, 10 A. M. to 3 P. M.

San Francisco, September 13, 1865. se16

Santa Cruz Petroleum Oil Works Company, location, Santa Cruz county, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 15th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Brooks, Edmd	553	100	30 00
Cooper, J B L	578	15	4 50
Campbell, Mrs Cath E	596	100	30 00
Caselli, A	599	100	30 00
Cohen, Angelo	655	100	30 00
Cook, W S	608	50	15 00
Ceif, Julius	721	29	8 70
Durham, B F	363	5	1 50
Derrick, W H	570	10	3 00
Derrick, W H	571	100	30 00
Derrick, W H	586	11	3 30
Day, Thomas,	588	50	15 00
Day, Thomas,	710	50	15 00
Donnelly, Th	642	35	10 50
Oresebfeld, Henry	601	100	30 00
Dreschfeld, Henry	602	50	15 00
Dreschfeld, Henry	503	50	15 00
Fell, Wm	bal 639	57	17 10
Hemphill, Uriah	501	5	1 50
Hart, Miss Frances M	617	100	30 00
Hazeltine, Wm	160	10	3 00
Langdom, Saml	173	20	6 00
Langdom, Saml	174	20	6 00
Langdom, Saml	175	20	6 00
Langdom, Saml	176	20	6 00
Langdom, Saml	222	50	15 00
Langdom, Saml	342	11	3 30
McGlennan, E D	344	3	90
Mouks, R B	400	15	4 50
Mahi, G	600	100	30 00
McCurdy, S H	713	50	15 00
Morris, Th D	728	50	15 00
Morris, Th D	729	25	7 50
Post, Mrs Harmy	315	10	3 00
Reid & Brooks	134	45	13 50
Reid & Brooks	312	0	1 80
Rand, Mrs Mary A	138	5	1 50
Root, W D	622	50	15 00
Root, W D	633	52	15 60
Reed, H R	730	25	7 50
Shirley, T W	618	100	30 00
Shirley, T W	619	50	15 00
Shirley, T W	620	107	32 10
Shirley, T W	587	50	15 00
Sharp, W H	598	100	30 00
Shirley, J	530	5	1 50
Smyth, E T	119	5	1 50
Smyth, E T	412	5	1 50
Woodward, W A	597	150	45 00
Williams, Edw L	643	20	6 00
Way, Oanl E	723	41	15 30
Way, Oanl E	724	51	12 30

And in accordance with law, and an order of the Board of Trustees, made on the 13th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at the salesroom of Cobb & Slaton, 406 Montgomery street, San Francisco, on the 7th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

R. WEGENER, Secretary.

Office, 415 Montgomery street, San Francisco, Cal. sc23

Taurus Mining Company, Santa Fe Mining District, Lander county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 29th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
O E Waldron	12	200	100 00
D E Waldron	13	100	50 00
D E Waldron	14	100	50 00
D E Waldron	15	140	70 00
T C Hall	30	50	25 00
D H Hall	31	50	25 00
D H Hall	32	50	25 00
D H Hall	35	50	25 00
D H Hall	36	50	25 00
D H Hall	37	50	25 00
B Moron	91	10	5 00
B Moron	bal 40 and 93	210	105 00
G H Willard	44	52	26 00
G H Willard	45	52	26 00
G H Willard	46	53	26 50
G H Willard	47	53	26 50
J A Veatch	48 to 52 inc 10-ea	50	25 00
J A Veatch	53 to 58 inc 15-ea	90	45 00
J A Veatch	59 to 64 inc 20-ea	120	60 00
J A Veatch	65 to 68 inc 25-ea	100	50 00
J A Veatch	not issued	360	180 00
J S Currie	69 to 73 inc 10-ea	50	25 00
J S Currie	74 to 79 inc 15-ea	90	45 00
J S Currie	80 to 85 inc 20-ea	120	60 00
J S Curlie	86 to 89 inc 25-ea	100	50 00
J S Curlie	not issued	300	180 00
R J Moody	90	75	37 50
I C Bateman	95 96 98 5-ea	15	7 50
I C Bateman	09 100 101 10-ea	30	15 00
Quintin Ribo	102 103 104 105 106 50-ea	250	125 00
Quintin Ribo	bal 108	235	117 50
Wm M Davis	109	25	12 50
Wm M Davis	not issued	650	325 00
Cornelius Smith	110	25	12 50
H Bordas	113	20	10 00
Timothy Harris	114	25	12 50
Mary A Clark	115	25	12 50
Henry F Ackley	116	25	12 50
R O'Keefe	117	10	5 00
R O'Keefe	118	15	7 50
Henry Gribbin	119	25	12 50
John Walker	120	25	12 50
G Golero	121 to 127 inc 10-ea	70	35 00
G Golero	129 to 133 inc 10 ea	50	25 00
A H Stout	138	25	12 50
Artse Molinelli	146	10	5 00
J A Giusti	151	20	10 00

And in accordance with law, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Maurice Doro & Co., No. 327 Montgomery street, San Francisco, Cal., on the 14th day of October, 1855, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner Clay and Front streets, San Francisco, Cal. se30

Table Mountain Copper Mining Company, Copperopolis, Calaveras county, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 22d day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Burke, John	171	29	14 50
Buzzolini, D	329	5	2 50
Cutler, Thomas	324 332 150a	30	15 00
Demill, E G	228	25	12 50
Demill, E G	229	11	5 50
Dorland, Thomas	239	50	25 00
Geddis, Wm H	33	10	8 00
Geddis, Wm H	34 35 36 37 38 10-ea	10	25 00
Gates, James R	236	10	5 00
Hounsberger, L	131	100	50 00
Iswell, James	50 & 325	277	123 50
Illesbbori, I E	190	15	7 50
Hunson, C	200	15	7 50
Johnson, John	355	10	5 00
Mason, N H A	143	133	66 50
Newby, Richard	240	57	
Newby, Richard	246 301 302 20-ea	60	
Newby, Richard	264 271 50-ea	100	
Newby, Richard	247 303 304 305 307 10-ea	50	
Newby, Richard	306	3	135 00
Phillips, Miss M E	150	5	2 50
Pentland, Henry	206	25	12 50
Smith, Mrs C A	238	5	2 50
Sutton, C J	296	5	2 50
Sawyer, C L	250	10	5 00
Van De Water, R J	130	80	
Van De Water, R J	156	4	17 00
Van Vlack, Henry	277	15	
Van Vlack, Henry	289	5	10 00

And in accordance with law and an order of the Board of Trustees, made on the 22d day of August, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at No. 620 Montgomery street, San Francisco, Cal., on Thursday, the 12th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco, Cal. se23

United States Mining Company, Virginia District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of September, 1865, an assessment of 25 cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold or silver coin, to the Secretary, or to JAS. V. COFFEY, at Virginia.

Any stock upon which said assessment shall remain unpaid on Monday, the 14th day of October, 1865, will be advertise on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. M. BUFFINGTON, Secretary.

Office, No. 10 Government House, corner Sansome and Washington streets, San Francisco, Cal. se15

Walipi Gold and Silver Mining Company, Moss Lode, San Francisco Mining District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of September, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said Company, payable on the 16th day of September, 1865, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 30th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

H. B. GONODON, Secretary.

Office, 520 Washington street (Room 5). se16

Wide West Gold and Silver Mining Company, Silver Mountain District, Alpine County, California.
Assessment No. 4.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, or to F. L. JAOKSON, Superintendent, at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 14th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 30th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, removed to 338 Montgomery street, San Francisco.

NOTICE.—At the above meeting Assessment No. 2 of 50 cents per share, levied August 22d, 1864, and assessment No. 3, levied March 18th, 1865, also for 50 cents per share, were rescinded, and stockholders having paid the same, or any portion thereof, will be credited on above Assessment No 4 accordingly.

se15 W. D. ROOT, Secretary.

Yosemite Silver Mining Company, Oro Fino District, Humboldt county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 20th day of September, 1865, an assessment of one dollar and twenty-five cents ($1.25) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to D. H. CROWE, No. 402 Front street (up stairs), San Francisco, or to JAS. T. MACLEAN, Superintendent, at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

S. O. PUTNAM, Secretary.

San Francisco, Sept. 20, 1865. se23

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

MEAT PIES WITHOUT VENT.—A correspondent of the *Lancet*, in commenting on the case of Mr. Sprague, who was charged with having poisoned his wife and her father and mother, at Ashburton, says: "All learned toxicologists and chemists appear to have forgotten the important fact that if a meat pie is made without a hole in the crust, to let out certain emanations from the meat, colic, vomiting, and other symptoms of slight poisoning will occur. I have known two instances of large parties being effected in this manner from eating pies that had no vent in them."

THE REBEL BALLOON.—The only balloon ever made by the rebels is on exhibition in New York. Two hundred silk dresses contributed by the ladies of Petersburg furnished the material for its construction. Professor Lowe secured the balloon and all its fixtures when the gunboat Teazer was captured.

"Patent Paper Reel for Telegraph Register."

SAN FRANCISCO, Sept. 18, 1865.

EDS. MINING AND SCIENTIFIC PRESS—*Sirs:*—Having noticed the above heading in your valuable paper of the 9th inst., I beg leave to inform you that the invention is not Mr. L. W. Worth's, but one already patented by me, while a resident of Cleveland, Ohio. His form of reel is one that I first got up in 1863, and filed a caveat for, and afterwards improved by putting some gearing, or clock machinery, so as not to use so much cord. The length of cord that I use now to run all day, would not run his reel one hour. After making my improvement, I applied for a patent, which was granted to me on the 19th of January, 1864. That patent covers all of his, so-called, improvement, as will be seen by my patent (No. 41,312) which claim reads as follows:

"What I claim for my improvement, is the arrangement of the mutually exchangeable reels D and F, in combination with the gears, cord, pulleys, and weight, the several parts being constructed, arranged, and operating as and for the purpose herein set forth."

This patent was obtained for me by Messrs. Brainard & Burridge, of Cleveland, Ohio, Patent Solicitors. And I further state, that all persons wishing to use said Paper Reels, will please to come and make arrangements with me for their use. As for any advantage he has over other reels, it can only be that he has a greater length of cord to wind up. Those that I built, of his style, before I had mine patented and after I filed a caveat, had all to be exchanged for my new Reel. In putting this up it takes only six screws to do the whole business, and takes up so little room that it is quite a convenient and useful instrument.

Address, **HENRY McGANN,**
12v1I At the Union Works, First st., San Francisco.

VALUABLE
PATENT RIGHT
FOR SALE.

The patent right for the United States of a valuable invention can be secured at a bargain by applying at this office. The article is one of general application throughout civilization.

DEWEY & CO., Publishers.

QUICKSILVER
FOR SALE BY
S. F. BUTTERWORTH
Northwest cor. Battery and California sts.
v9-19 SAN FRANCISCO.

EUREKA
PATENT BLASTING POWDER.
Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets, Room No. 9, with San Francisco Chemical Works.

CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2v1I4y

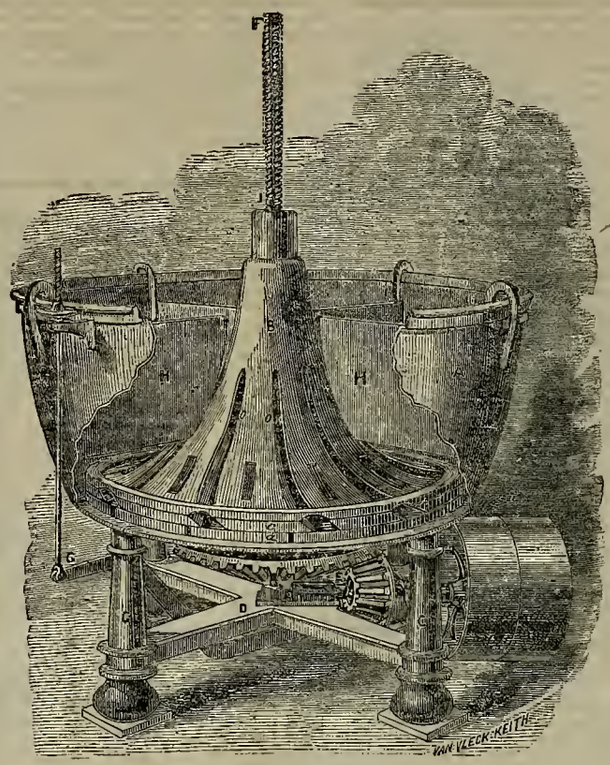
WILLIAM PENROSE,
Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,
Is prepared to buy in any quantity
COPPER, SILVER, GOLD, LEAD
AND OTHER VALUABLE ORES;
Also Lead Bars Containing Gold and Silver,
☞ Full value paid on delivery in this City. ☜
Address Lock Box No. 992, P. O., San Francisco. 25v10

Copper, Lead, Gold, Silver,
Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,
Agent for Townshend, Wood & Co., Swansea,
No. 416 Battery Street, San Francisco.
15v10-3m

MARTIN & CO.,
Office, Stevenson House,
Corner California and Montgomery streets (up stairs).
WILL CONTRACT FOR THE
PURCHASE OF COPPER ORES,
Assaying eight per cent. and upwards of Copper to the ton.
We will make advances upon Ores of Copper.
San Francisco, Post Office Box 1269, 22



THE EXCELSIOR
GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and o, Openings.

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

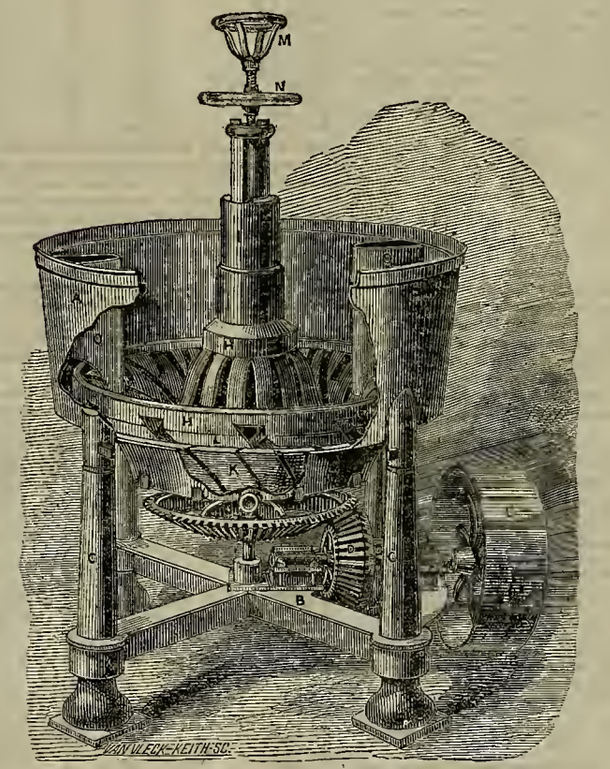
Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE
Union Iron Works and Golden State Iron Works,
WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.
SAN FRANCISCO, June 13, 1865.



THE
WHEELER & RANDALL
Grinder and Amalgamator

In the engraving herewith exhibited, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Pintes.

The attention of the Public is respectfully called to these facts:

1st. That the Mechanical work accomplished by differently formed grinding plates, having the same diameter, weight, hardness, and revolving at the same velocity, is as follows, to wit:

The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory-formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

2d. That as a whole, the Wheeler & Randall Grinder and Amalgamator is one of the most simple, compact, substantial, convenient and efficient pans in use.

☞ Patent applied for.

MANUFACTURED AT
GOLDEN STATE IRON WORKS.....San Francisco
UNION IRON WORKS..... "
MINERS' FOUNDRY..... "
SAN FRANCISCO FOUNDRY..... "
PRESCOTT & SCHEIDEL.....Marysville.
OREGON IRON WORKS.....Portland, Oregon.

WHEELER & RANDALL, Inventors.
SAN FRANCISCO, JUNE 13, 1865.

JOHN TAYLOR & CO.,
—IMPORTERS AND DEALERS OF—
ASSAYERS' MATERIALS,
Druggists' & Chemists' Glassware,
Photographic Stock, Etc.
512 and 514 Washington Street,
SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 6, 1865. 11v10-tf

SAN FRANCISCO
CORDAGE MANUFACTORY.
CONSTANTLY ON HAND,
A Large and Complete Assortment
—OF—
MANILA CORDAGE,
FOR MINING PURPOSES.
—ALSO—
WHALE LINE, BALE ROPE, ETC.,
Manufactured from Pure Manila Hemp.
Hoisting Ropes for Deep Shafts,
—ALSO—
Lines for Ferry Boats,
Manufactured to Order.
Office at **TUBBS & CO.'S,**
Nos. 611 and 613 Front street.
Manufactory at the Potrero. 14v10

WE ARE NOW OFFERING
OUR IMMENSE STOCK
—OF—
Fine Custom Made Clothing
—AND—
Gents' Furnishing Goods
AT PRICES THAT DEFY COMPETITION.
Our Stock of Clothing Consists of
ALL THE LATEST STYLES
BOTH OF MATERIAL AND FINISH.
A Large Assortment of
Trunks, Valises, Carpet Bags, Blankets, Etc.,
AT EXTREMELY LOW PRICES.
J. R. MEAD & CO.,
8v10 Cor. of Washington and Sansome streets.

THE CRICKET.—The Cricket is a curious little insect. It has given rise to two proverbial expressions; in France people say; "silly as a cricket," while in England and America we say, "merry as a cricket." Crickets eat grass, seeds and fruits, conveying them to their holes, and though they are very fond of drinking the dew on leaves and flowers, they are very careful not to wet themselves on their journeys in search of food. The young live in peace, but when they grow up they manifest a most bellicose disposition, and are continually fighting with one another. The boys in Germany are very fond of keeping crickets in boxes for the sake of their song, and for the purpose of watching their battles. What the game cock is to the Cuban, and the bull-dog to the Englishman, the cricket is to the German youth. Their contests are very sharp and very amusing. According to the way in which they happen to meet, they butt like rams, kick like horses, or scratch like cats, and the contest is unceasing in its ferocity, until one of the insects flees from the field or is disabled. It must be remembered that the European house cricket is not known in our country. Its song is much more varied and much cheerier than that of the species which sometimes finds its way into our hearths.

Agent Wanted.

A good Canvassing Agent can secure permanent and remunerative employment by calling at the office of the MINING AND SCIENTIFIC PRESS, 505 Clay street.

DEWEY & CO.,
Publishers and Job Printers,
Office Mining and Scientific Press, San Francisco.

REMOVAL!

R. WEGENER,
Accountant and Mining Secretary
Has removed to
No. 415 Montgomery Street—west side,
Between Sacramento and California sts.,
6v10 SAN FRANCISCO.

CALL STABLE.

N. GISHWILLER

Would respectfully inform the public that he has opened a large and well-arranged LIVERY STABLE,

On B street, Summit City, Cal.,

(two doors below the Lake House), where good Saddle and Buggy Horses can be had at all times. Our charges will be reasonable, and we hope, by prompt attention, to merit a share of the public patronage. 10v11-3m

LEHIGH COAL.

200 Tons Large Lump Lehigh Coal
Now on Hand.
I am also in constant receipt of
LEHIGH COAL,
And will be able to supply it always
At the Lowest Market Price.
JAMES R. DOYLE,
20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

OIL WELL BORERS.

A CONTRACT WILL BE LET TO A RESPONSIBLE party to sink an Oil Well, as deep as may be required, on land belonging to the "Eel River Oil Company," situated in Humboldt county, Cal. For particulars, inquire at the office of the Company, No. 436 Jackson st., up stairs.
12v11-1m E. H. WILSON, Secretary.

A CHANCE FOR CAPITALISTS.

The Hinckley Quartz Lead,

Located in Jackson, Amador county, California, containing four hundred feet, is FOR SALE. It has thus far proved to be the richest claim in the county. For further information, enquire on the premises.
Jackson, Sept. 4th, 1865. T. HINCKLEY.

For any further information concerning myself, I will refer (without permission) to A. Hayward, Esq.; Horace Kellum, Esq.; C. W. Rand, U. S. Marshal; Bigelow Bros., Insurance Agents; M. Abrams, Esq. 10v11-4w

SALMON'S
PROPELLOR AMALGAMATOR
—AND—
Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address
9v11 J. & W. C. SALMON.

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSITON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to
JOHN MAILER,
Engineer of Pioneer Flour Mills, No. 515 Market street above First (opposite the Oriental Hotel), San Francisco.
2v10

Machinery.

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th.

Illustrated in the Mining and Scientific Press, April 9th, 1864.

HEPBURN & PETERSON.
mcr8 3m*

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Crocodile Quartz Crusher; his Pulverizer; and his Improved Preliberg Amalgamating Barrel; all together forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast, amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. B. FAUCHERY, Engineer,
24v9

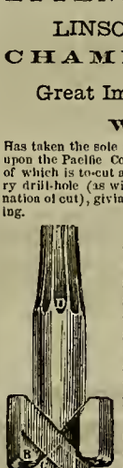
BLAKE'S
QUARTZ BREAKER
Is now extensively used for breaking hard masses of
Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in
CALIFORNIA, AUSTRALIA,
WASHOE,
ENGLAND, FRANCE,
—AND—
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,
BLAKE & TYLER,
Box 2077 San Francisco Post Office.
CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.
4v11

ATTENTION, MINERS!
LINSCOTT'S PATENT
CHAMBER DRILL.
Great Improving in Blasting.
W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.



D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ⅛ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

VARNEY'S
PATENT AMALGAMATOR.
These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, but one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

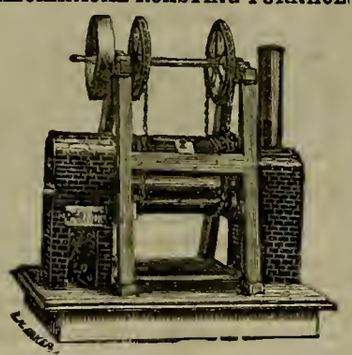
This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Sellers made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and sellers for themselves, at the PACIFIC FOUNDRY,
1v1 San Francisco.

The Mechanics' Institute
AWARDED A
PREMIUM SILVER MEDAL
TO BRUCKNER'S
MECHANICAL ROASTING FURNACE.



Parties wishing to erect such Furnaces, are requested to leave their orders at the office of the MINING AND SCIENTIFIC PRESS.

W. BRUCKNER, Mining Engineer,
12v11 90t Kearney st, Room No. 12.

HUNT'S
IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN
HORSE POWER
For Sawing Wood.
ALSO, THE
Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,
No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

HUNT'S PATENT
Circular Sweep Horse-Powers,

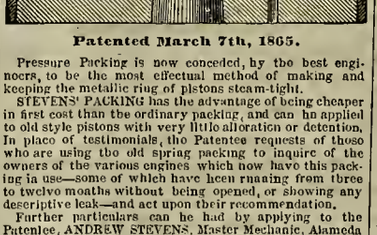
For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,
7v10 28 Second street, San Francisco

DENIS WHELAN,
Fashionable Boot Maker
REPAIRING NEATLY DONE, AT SHORT NOTICE.
No. 17 Fourth Street,
Near Market street, San Francisco.
15v10-1m*

Stevens' Pressure Packing.



Patented March 7th, 1865.

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

STEVENS' PACKING has the advantage of being cheaper in first cost than the ordinary packing, and can be applied to old style pistons with very little alteration or detention. In place of testimonials, the Patentee requests of those who are using the old spring packing to inquire of the owners of the various engines which now have this packing in use—some of which have been running from three to twelve months without being opened, or showing any descriptive leak—and act upon their recommendation.

Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Alameda Railroad, or at the VULCAN IRON WORKS, where they can be seen, at any time, in course of construction.

10df ANDREW STEVENS.

McCOMB'S
CUMULATIVE POWER PRESS
AND
ARROW TIE.
E. C McCOMB, Agent.
No. 1 Government House, cor. Sansome and Washington sts.
23v10 3m

WATER WHEELS!
Equal to the Best Overshot Wheel

POWER PLEDGED

IN EXISTENCE.

LEFFEL'S
AMERICAN DOUBLE TURBINE,

Is now manufactured by the Vulcan Iron Works Company, in this city, and orders for the same can be filled immediately. We have a large supply of the different sizes, from 10 inches to 50¾. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 50 to 300 pounds, will yield from 10 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to
LEFFEL & MYERS.
At Vulcan Iron Works, office 137 and 139 First street, San Francisco. 4v11-1f

TO QUARTZ MINERS.
Hinkle's Centrifugal Pulverizer
and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUGAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steen, Nos. 37 & 39 Fremont street, between Market and Mission streets.

This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine, made entirely of Iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

Mr. Hanson, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 60 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to
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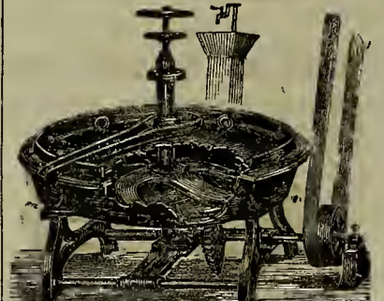

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We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jeffersonian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crall's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

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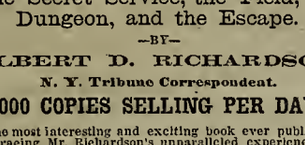

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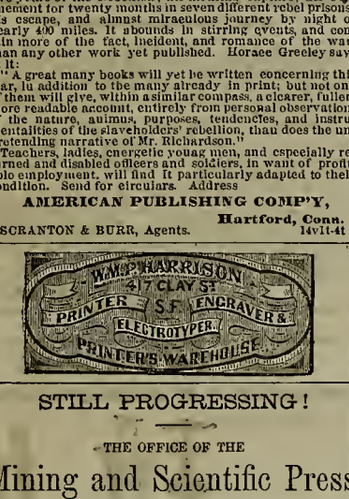

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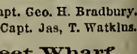

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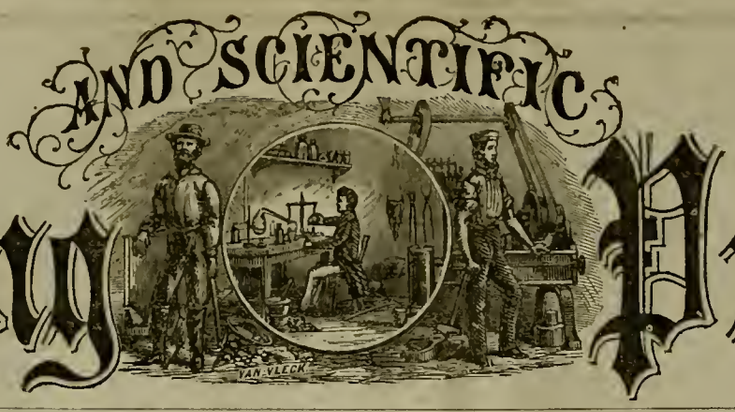

A Journal of Useful Arts, Science, and Mining and Mechanical Progress.

DEWEY & CO., PUBLISHERS And Patent Solicitors.

SAN FRANCISCO, SATURDAY, OCTOBER 14, 1865.

VOLUME XI. Number 15.

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THE EAGLE QUARTZ MINING COMPANY.

This company is located about three and a half miles southeasterly from Volcano, Amador county, and is now making preparations for a vigorous development of their mines. The property was originally located and for a long time worked by a large company of Mexicans, who erected some four or five small stamp mills and arastras, with which they took out fully $700,000 of free gold, chiefly from the surface of the mines. Like most other Mexican operations, this also gradually suffered from neglect and bad management, until the proprietors finally found themselves in debt, when the property soon passed out of their hands. It subsequently was held for short intervals by several other parties, and finally passed into the hands of the present proprietors—all San Francisco parties—who are now, as we have already stated, about to recommence operations in earnest. The mills were originally located upon the top of the high river bank, where the Mexicans did all their mining, never going down more than forty feet in any of the five leads of which the property consists. One of the late proprietors removed the principal mill down near the bed of the Mokelumne, where it now stands with two twelve-foot arastras, and from which point the company propose to tunnel into the veins, all of which, crossing the river pass directly into the hill, affording most favorable facilities for working to a great depth. The company owns 4,000 feet in each vein, and 750 acres of heavily timbered wood land adjoining. A tunnel has been started on the principal vein, which it struck in about eighty feet, and at a point where it is twelve inches thick; but which has widened to thirty-two inches in a distance of twenty feet. The rock looks remarkably well, shows considerable free gold and carries a large amount of sulpharets, which assay at the rate of $1,000 per ton, when concentrated. An assay was shown us with a button worth $2.02, which was taken from twenty-five pounds of the rock—$168 to the ton. This bids fair to become a very valuable property. It is located within twenty-four hours' travel of San Francisco.

Silver Medal.—Messrs. Knowles & Clark have been awarded a silver medal, special premium, by the Mechanics' Fair, for their new combination of gold and vulcanite dentistry, instead of a diploma, as was previously published.

Another Shock.—Another distinct earthquake shock was felt in this city about a quarter before one o'clock yesterday morning. It was quite as severe at Santa Clara as the one on Monday.

THE RECENT EARTHQUAKE.

The great sensation of the week has been the earthquake, which occurred at fifteen minutes before one on Sunday last, and which, by common consent, has been pronounced the most severe which has visited this coast for the last sixty years, at least. It was an occurrence which will long be remembered in the history of San Francisco and the State. However light men may speak of it now that it is past, and our beautiful city still stands triumphant over the convulsions of nature; certain it is that the terrible moment of panic which occurred when the final shock came to those who were pent up within walls of brick and stone, was an instant in which the bravest heart might well quail, and one which might reasonably be expected to unnerve the strongest man, and render him weak like a child. It has been our lot to experience some of the heaviest shocks felt in this city within the last fifteen years; and we remained quietly in our seat, (at church) during the first shock, which was quite a heavy one for San Francisco; but that man must have been either more or less than human, who could have remained stoically indifferent to the ruin and destruction which was threatened when the convulsion reached its crisis, and the heaviest walls swayed to and fro and trembled like an aspen, while others tottered and fell. Thousands of our population were in the churches at the moment—the most dangerous class of edifices in which we can be placed at such a time—but we hear of no unmanly act on the part of any of our citizens. The men of California are noted the world over for their bravery and presence of mind, when in sudden danger, in the presence of the opposite sex, as has repeatedly been noticed on board of our crowded and ill-fated steamers. This peculiar trait was especially noticeable on that occasion; and, forgetful of self, thousands of stout arms were raised in an attitude of protection or with the view to quiet alarm and restore confidence to those whose weaker nerves may excuse a yielding to sudden and overwhelming danger.

The daily press of the city has given with the most minute particularity the chief incidents of the occasion, and a full detail of the injuries which resulted to persons and property. It was certainly a most remarkable circumstance that no one was killed or seriously injured, from the numerous falling of fire walls, cornices, etc., which occurred in almost every part of the city. The limits at our disposal will not admit of any detail, in this connection, of the catastrophes which occurred; our remarks must necessarily be confined to a few generalities or such particulars as we have not come under the notice of our contemporaries.

As to the force and direction of the disturbance, we have abundant proof. Perhaps no better index of this can be cited than a circumstance which occurred in the southwest corner room of the third story of the old Exchange building opposite the post office. That room was occupied by two gentlemen of our acquaintance as a dormitory. A short time previous to the occurrence, a common wash tub, holding about five pails full, had been filled to the brim with water and left standing in the middle of the room. After the shock had passed, the fact was carefully noted that fully *two-thirds of the water had been thrown out of this tub*. The extent and violence of the vibration which could produce such a result may be readily appreciated. The opposite direction in which the water was evidently thrown, also afforded a very good index of the direction of the earth-wave, which nearly all observers agree in saying to have been from the northwest to the southeast. So violent and rapid was the vibration that a great number of chimneys were entirely broken from their supports, but mostly left standing in almost their natural position, a few only being thrown down, and a few more or less twisted apparently as by a circular movement.

The fact of an upward as well as forward wave-like motion, is proved by a fact which occurred during the lighter shock which was experienced about half past ten the next day, in the philosophical instrument shop of Mr. Roach, on Washington street, directly opposite the postoffice entrance. When that shock occurred, one of his workmen was sitting in a chair directly fronting a very large barometer, which was hanging against a brick wall, with his eye, at the instant, upon the mercury in the tube. While thus looking he saw the mercury suddenly drop about half an inch, and at the same instant perceived the tremor. This shock, it will be recollected, was a very slight one compared with the one on Sunday; yet the upward movement which depressed the barometer must have been several inches. In the same shop, on Sunday, a thermometer tube some eighteen inches in length, without a case, was hanging against a brick wall by the side of a barometer, the case of which stood out from the wall some three inches, but was so placed that it could not swing out as the tube might. The latteral movement of the wall, on Sunday, threw this tube out so that it swung over upon the face of the barometer hanging by its side, and lodged there, where it is still suffered to remain for the examination of the curious. Water was slopped out from several vessels, in this shop, similar to that from the tub in the Exchange Building already mentioned, and distant some 500 feet. This occurrence indicates a latteral movement of the wall of at least one foot! It occurred in the second story of the building.

At the time the shock occurred, one of the proprietors of this paper was standing upon a high mountainous elevation a short distance to the northward of Santa Cruz, some seventy miles south of this city. The first indication of the shock there was a loud rumbling noise, evidently from below the surface of the earth, and approaching the spot where he stood from the northward. The noise was accompanied with the usual vibration of the earth, immediately upon which there was an evident commotion among animate as well as inanimate nature. The cattle manifested their cognizance of the phenomenon by an evident consternation and unusual bellowing, while numerous flocks of quail suddenly rose from their hiding places and whizzed away in unmistakable fright. At the same instant a huge boulder, standing upon a neighboring height, a quarter of a mile distant, and weighing many tons, which had withstood the earthquake shocks of hundreds of years, and the numerous efforts of men who had vainly endeavored to dislodge it by levers, was loosed from its foundation by this extraordinary convulsion, and went crashing and thundering down the mountain side into the cañon below!

The shock of the earthquake was very distinctly felt in the harbor and outside of the Heads. The schooner Fayaway, on her trip from Monterey to this port, experienced a very sensible shock, from which the first thought was that she had struck a rock; the shock was heavy enough to jar the dishes on the table. The sea was perfectly smooth at the time, but a stiff breeze immediately sprung up, and in a few minutes they had a very rough sea. The experience of a vessel just outside the Heads was very similar to the Fayaway.

An officer of a vessel which lay at anchor in the harbor, states to us that his first notice of anything unusual was a rattling of the chain cable, as though it were dragging the anchor over rocks upon the bottom; the vessel was also sensibly agitated with a trembling motion, as from a violent agitation of the water. Almost immediately thereafter came a confused noise from the city front, and dust was also noticed to rise from several points which must have been produced from the falling walls. The calm that preceded the shock in the city was also here, as at sea, succeeded by a violent wind. We had intended to have followed the example of our cotemporaries and philosophize a little upon the subject of *seismology*, a term by which the discussion of facts connected with earthquakes is known; but the space which we have already occupied upon this subject, induces us to defer such discussion until another week.

Treasure Receipts.—We would call especial attention to the Associated Brokers' Stock Circular, of the present week, which will be found in another column. It contains the usual quarterly report, recapitulating the treasure receipts for the first three quarters of the present year. It is a gratifying fact that our treasure yield has been gradually and regularly increasing for the past four years. The recorded receipts of treasure from the mines for the past year to date has been $41,640,420, which, by adding the usual ten per cent. for private hands, will be increased to $45,804,562, a gain of $2,594,455, over the same period last year.

Planting Chesnuts.—We notice in an Ohio journal, a communication from Dr. Kirtland, in relation to the cultivation of chestnuts. He raised in his garden, from seed, the French, Spanish, and Italian chestnuts, some twenty years ago, which he transplanted, and which, when ten years old, commenced bearing crops. He thinks they will pay well to cultivate, and also recommends the shellbark hickory nut for cultivation. He says the three kinds of chesnute named are about equal in size.

The chestnut has been spoken of as a tree well suited to California. We see no reason why the chestnut and hickory might not be made to thrive here and return a rich reward to the planter. They would, doubtless, both produce fruit much sooner here than in the Atlantic States, as all other trees which have hitherto been tried here are found to do.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

Electricity—Its Relation to Matter---Ocean Telegraphy.

It has recently been discovered that the periodicity of the solar spots is identical in duration with a certain variation observed in the intensity of terrestrial magnetism—that the intensity of terrestrial magnetism varies with the amount of heat received from the sun. While considering this fact, some three years since, the idea suggested itself to the mind of the writer that electricity might be a property of matter; that it might exist in two conditions, free and latent, and as with heat, the density of matter might also be the measure of its capacity for electricity. This proposition, upon reflection, seemed perfectly in accordance with every fact with which I was acquainted. It appeared like truth, which, when once found, no matter from what stand-point it may be viewed or approached, is truth forever. The more I investigated this subject, the more evident this truth appeared, and the more perfectly was my mind enabled to perceive the true relation of electricity to matter.

"Hypotheses, well conceived and properly conditioned by strict analogy," says Professor Joseph Henry, "not only enable us to embrace at one view a wider range of phenomena, but also assist us to pass from the known to the unknown. When rightly used, they are the great instruments of discovery, giving definite direction as to the experiments or observations desirable in a particular investigation, and thus marking out the line of research to be pursued in our endeavors to enlarge the bounds of the science of our day."

In order that the relation of electricity to matter may be more clearly expressed, the following series of postulates are proposed:

1st. Electricity is a property or quality of matter.

2d. Electricity exists in two conditions—namely, as free electricity and as latent electricity.

3d. The density of matter is the measure of its capacity for electricity.

4th. Every variation in the density of matter is attended by electrical disturbance, and as heat is a modifier of the density of matter, it may be considered the principal disturber of the electrical equilibrium.

5th. When a body of matter is expanded by the absorption of heat, a definite proportion of free electricity is rendered latent, and when the body of matter contracts by loss of heat, it is again set free.

6th. Heat, on being liberated by the contraction of matter, tends to radiate freely into space; while electricity, on being set free, is attracted by matter with a force varying inversely as the square of the distance—that is, when the distances are 1, 2, 3, 4, 5, etc., the forces are 1, 1-4, 1-9, 1-16, 1-25, etc.

7th. The electricity tends to equal diffusion over bodies with which it may be in contact, and to remain at rest, and it only moves in obedience to some disturbing influence.

8th. "Electricity can move freely in certain bodies, such as metals, water, etc., which are hence called conductors; and cannot move, or but imperfectly, through other bodies, such as glass, baked wood, dry air, etc., which are called non-conductors."

It may be stated as a general truth that the earth is perfectly electrical; that it is a great reservoir of free electricity, as is shown by the operations of the telegraph. The earth, as a whole, is found to be a good conductor, and its electrical tension cannot differ much in different parts. We are acquainted with no chemical, thermal, or mechanical action, in our own era, sufficient to produce this constant electrical state. The size of all bodies is determined by the amount of latent heat and electricity they contain, and their density is the measure of their capacity for these imponderable properties. All liquid, and many solid bodies, are converted into vapor by heat and the natural supply of electricity. However refractory a body may be, it is immediately converted into invisible gas by the expansive energy of heat, and an increased flow of electricity. Rowel and Spencer made an experiment, which showed that when a full supply of electricity is cut off by insulation, the evaporation was retarded. For this purpose they put the same weight of water into two vessels, one of which was insulated, and the other connected to the ground by conductors of electricity, and they found the latter always lost most by evaporation; thus showing that an increased quantity of electricity is essential in the formation of vapor, which must be latent, so that the attractions and repulsions balance each other; otherwise vapor would not ascend from the earth. For it must be remembered that matter attracts electricity, and is also attracted by electricity, with a force varying inversely as the square of the distance.

The earth is known to be constantly receiving electricity from the atmosphere, and it is evident that were this supply not constantly renewed, the atmosphere would soon be deprived of its free electricity, in consequence of the superior attraction of the earth. Whence comes this redundant electricity with which the atmosphere is found to be habitually charged? That atmospherical electricity is due to the condensation of vapor is beautifully exemplified in the workings of nature. Thus, when two opposing currents of warm air loaded with vapor rush upwards into the colder regions of the atmosphere, condensation rapidly ensues, the latent electricity of the vapor is set free, the cloud becomes charged, until its attraction for free electricity is overcome by the superior attraction of the earth, when the vivid lightnings appear, and we have all the phenomena of the thunder shower. Again, the warm, dry air that constantly floats over towards the polar regions, is condensed by the intense cold of the arctics; and its latent electricity on being set free, owing to dry air being so perfect a non-conductor, becomes apparent in the flashings of the magnificent Aurora Polaris. If we admit that heat is the principal disturber of the electrical equilibrium, then currents of electricity should pass from the colder to the warmer portions of the earth, or from those places where condensation is the most rapid, to those places where expansion and evaporation go on with the greatest activity. Electricity liberated during the cold of the night would be absorbed during the heat of the day, and as the apparent motion of the sun is equatorial, the direction of the electrical currents should also be equatorial.

It has been demonstrated by experiment that the needle of the compass will stand at right angles to a passing current of electricity, hence the polarity of the needle—its position as to variation from the true north showing the direction of the electrical current in different localities. The currents of warm air and warm water that are continually floating over towards the poles, together with the Gulf-stream, to which the peculiar disposition of land composing the shores of the Atlantic and Arctic oceans gives direction, as it flows along the coast of Norway and Siberia, takes a turn around the great cooling basin of the Arctic, and flows back into the Atlantic laden with icebergs, would have a tendency, owing to the incidental climatic effects, to intensify the earth currents of electricity in the Northern Atlantic. And then during the late autumn, winter, and early spring of the year, the coasts of Ireland and Newfoundland differ greatly in temperature. If we admit that variation in the density of matter by the absorption of heat or by the loss of it is attended by the disturbance of the electrical equilibrium, then here, most certainly, we have the conditions for greatly intensified electrical action.

Taking this view of the subject, is it a thing to excite surprise, that insulation should be lost, in attempting to telegraph across the Atlantic, with a single wire, where such strong counter electrical currents are likely to exist? Would it not be wisdom, instead of trying to overcome the strong counter currents, by increasing the size and conducting capacity of one wire, to lay two insulated wires, and complete the circuit with wire, and thus seek to be independent of all outside electrical disturbances?

When this is done, telegraphing across the Atlantic or any other ocean will be a complete success. The wire will always be under the control of the operator, for the current of electricity employed will have no resistance to overcome, save that offered by the metal used as a conducting medium. And then a wire, as much less in size and conducting capacity than the old Atlantic cable as can be successfully laid, will be large enough for all practical purposes.

During the process of telegraphing with one wire, the earth being a vast reservoir of free electricity, a certain amount of the electric fluid is taken up at one point and deposited at another, the circuit being effected by displacement, thus showing the perfect mobility of free electricity, how easily the electrical equilibrium is disturbed, and also that the earth is a good conductor. Electricians have erred in supposing that because the earth answered so well to return the electrical current for a few hundred miles, it could be depended upon as a conductor across wide oceans. Even between New York and San Francisco it is found to be expedient to repeat messages three times, and across dry land at that, where it cannot be supposed a great amount of electrical disturbance should exist. It is, or soon will be, a necessity of the times that there should be perfect telegraphic communications betwixt New York and San Francisco. This will be impossible, without perfect insulation, which cannot be obtained unless the circuit is completed with insulated wire.

How may it be accounted for that the earth is permanently electrical, or in other words, that it is a reservoir of free electricity?

In attempting to answer this question, I shall introduce a synopsis of an argument used by the writer, in a discussion of the formation of "metalic veins," with the late E. A. Miles, under the title of "Are metal-bearing veins of igneous origin?" In considering this question, the writer will first attempt to show that the solid earth is the product of the ignition and combination of the elements of which it is composed. "In the beginning God created the heavens and the earth; and the earth was without form and void. And darkness was upon the face of the deep; and the Spirit of God moved upon the face of the waters, and God said let there be light, and there was light." To-day the earth exists as a vast body of solid matter, yet in the beginning the great Author of all things assures us it was without form and void—the matter composing the bodies belonging to our universe was in its elementary or gaseous state. It is a most significant fact that all bodies may be expanded into invisible gas through the agency of its imponderable properties—light, heat, and electricity. When all matter existed in its elementary or gaseous state, darkness was upon the face of the deep, and all the light and heat that has radiated into space from the beginning, was then latent, in combination with matter. Electricity, being a property of matter, was also latent; yet, unlike heat which radiates freely into space, it is attracted by matter, with a force varying inversely as the square of the distance. The absorption of the exact amount of caloric and electricity that has been liberated from the beginning by the matter of which our earth is composed, would again render it gaseous. The earth is found to be composed of something over sixty elements, which, in the beginning, the Creator declares were without form and void, and according to known laws, these gasses were mechanically mixed and equally diffused through space.

When the elements combined to form solid bodies, would the evolution of light and heat be the result? In considering this question I shall arrange and present facts familiar to every student of chemistry. Oxygen combines with all the other known elements, except, perhaps, fluorine. All of the metals have strong affinity for oxygen with which they combine, with the evolution of intense light and heat. The experiments of Bunsen and Kirchoff in spectrum analysis, show that metals must be expanded into vapor by the absorption of heat and electricity before they will combine with oxygen to produce light. If we admit the declaration of the Creator, that in the beginning the earth was without form and void, or in other words, that all the elements were gaseous, then we must perceive that the elements were in just the condition to combine with the evolution of light and heat to form solid bodies. Hydrogen and oxygen, when mixed together, take fire on the approach of a flame, or when a spark of electricity is passed through it, and explode violently, and water is the only result; and without water the operations of the chemist would cease. Light causes hydrogen and chlorine to combine with violent explosions, forming hydrochloric acid. Electricity is a property of matter, and as the density of matter is the measure of its capacity for caloric, so also the density of matter is the measure of its capacity for electricity. A given quantity of water, on being expanded into vapor, has power to render a definite proportion of electricity latent, which is again set free on the vapor being condensed into water. Free electricity is attracted by matter with a force varying inversely as the square of the distance, and it diffuses over it with the rapidity of light.

Now suppose there exists in space, held in its proper orbit by the laws of gravitation, a vast body of nebulous matter, composed of the same elements in a gaseous state mechanically mixed, and in the same proportion as they are found to exist in our earth. In consequence of the intense cold of surrounding space, condensation would ensue and sparks of liberated electricity would pass between bodies of the aggregating mass, unequally charged, as from cloud to cloud. The process of chemical combination would instantly commence, waters would be produced, atoms of potassium being in contact with water would ignite and burn with a continued flame; the other alkaline metals would take fire as they combined with oxygen, the temperature of the mass would increase as the elements united, and the result would be a self-luminous body like the sun, with its atmosphere of burning metals. Thus, a fire started by a single spark of electricity, would not cease to burn until the elements combined in every proportion and form that an elevated temperature will produce. If we admit that the imponderable properties of matter determine the size of all bodies, it is easy to understand how the earth should, in the process of the condensation of the matter, of which it is composed, from the gaseous or elementary state to a solid body, become a vast reservoir of free electricity.

While advancing the foregoing hypothesis of the relation of electricity to matter, I have aimed to present my conceptions of truth in a direct and pointed manner, and believing it to be perfectly in accordance with facts, I ask of the reader such attention and thought as the subject merits, that he may satisfy his own mind whether or not these things be so.

On adopting these views it occurred to my mind, some three years since, that if this theory is really truth, I ought to be able to make some new application of electricity, or discover some mistake that had been made in attempting to apply it. On reflecting upon the cause of the failure of the first Atlantic cable, I predicted the failure of the second attempt in the following terms:

Trans-Atlantic telegraphing can never be conducted with satisfactory results, without the employment of two insulated wires of uniform size and density. By using an insulated wire for the returning current, ocean telegraphing may be performed at all times with perfect regularity and certainty. The electrical disturbance existing in the Atlantic might be overcome by repeating, but this method of telegraphing, however, is impracticable across wide oceans. In telegraphing with one wire, the circuit is effected by displacement, and as the distance increases the force of the returning current decreases until it would finally be lost; especially if between the terminii sought to be connected by the telegraph there should exist any considerable counter disturbance of the electrical equilibrium. In relating the experience of the late expedition, it is stated that "the only discouragement apparent is the inability of the electricians to discover any serious fault in a cable before it is paid over the ship's side." There can be no good reason why the insulation of a well constructed cable, carefully paid out, should not remain perfect. The real difficulty is, that the earth cannot be depended upon, as a conductor, to complete the circuit. Let two well constructed cables be carefully laid, and the circuit thus be completed with insulated wire, and the trans-Atlantic telegraph will be a success. F. A. H.

[Written for the Mining and Scientific Press.]

The Washoe Consolidated Company---Truckee Meadows.

Editors Mining and Scientific Press:—It may not be uninteresting to hear from the so-called Sage Brush country of the State of Nevada, where I have recently been on a visit to the different mining districts. My attention was particularly called to the country around the Truckee River. Four years ago not a single house could be seen along this river as far as the eye could reach; but now we find most of the Sage Brush land taken up, a large amount of it fenced in, and houses built all over the valley bordering upon the Truckee River. The waters of the Truckee, which then flowed undisturbed, are now turned from their original bed and used for milling and irrigating purposes. Among the greatest undertakings in the way of converting a wilderness into a producing and civilized country, is the works of the Washoe Consolidated company of which I will give you a short description.

These extensive and valuable works were formerly the property of Col. W. O'Conner, who was the original founder of this concern, which is now owned by the above named company. The stock is mostly held in London; Col. O'Conner is the managing director, and he deserves great credit for the extensive undertaking in making this former wilderness what it now is.

The company carries the water of the river in a canal about four miles to their mill, by which they get a fall of thirty-eight feet, and it is intended to carry the water six miles further to irrigate about 20,000 acres of land. The first use of the water is to drive a quartz mill, and other machinery, in their reduction works, by means of an overshot wheel twenty-eight feet in diameter and eighteen feet breast, calculated to be 100-horse power. The wheel is well built and balanced. A splendid 20-stamp

hattery, made at the Miners' Foundry in San Francisco, has been erected, the wood-work of which is the strongest of any I have ever seen. The amalgamating capacity consists of twelve of Wheeler's amalgamators and settlers. After leaving these, the tailings will be passed over concentrators of my own patterns, by which both the quicksilver and sulphurets will be saved in the most economical manner. The company is also building large roasting furnaces, and it is the intention of the Colonel to render this establishment the best reduction works in the State of Nevada. The company also owns several mines in the neighborhood, which are as yet only partially worked. The outcroppings in one of their mines about half a mile from the works, show several lodes, and indicate that large deposits of ore may be met with. From the nature of the ground I should judge that they will have to sink from 350 to 500 feet before the mine will yield any rich ore. The croppings are several hundred feet in extent, and assay from five to twenty-five ounces of silver per ton, and some gold. The mining ground is easily worked and perfectly dry, so that the work is not expensive. Besides this, the company owns about 1,200 acres of land of the best quality in the valley, all of which can be irrigated by the canal above named. The experiments tried here this year show that this land is capable of producing an abundance of wheat, corn, barley, potatoes, and other vegetables. A town has also been laid out, called Auburn, and several houses have already been built. Within another year it is the intention to make this property not only one of the handsomest, but also one of the most profitable in Nevada, and I trust that Col. O'Conner will be rewarded with all the success he deserves, for his energy and perseverance in making this as the only English company in Washee, a successful concern.

J. Mosheimer.

Truckee Meadows, September, 1865.

The Chemistry of Silver Veins.

Dr. Blatchly, of Austin, Reese River, has recently made an interesting report on a series of veins in or near the Yankee Blade district a portion of which will be read with interest, as explaining the peculiarities of the veins in that rich section of the Reese River mineral region. The claims embraced in this report are the New York Central, Purdy, Kearsarge and Metropolis. We copy from the *Reveille*:

These four veins present all the peculiarities of the most renowned ledges in the districts—as the Midas, Romeo, and the General Sigel, which did not show much ore on the surface, but as they were followed down proved to be quite valuable. It is probable that all the silver in these veins exi ted at one time in the form of a sulphuret, and that this ore was formed under water. By the operation of internal forces, these veins were thrown above the water, and exposed to the action of the atmosphere, which decomposed the sulphuret of silver, forming sulphuric acid, and leaving the silver free. This acid reacted on the silver and formed a sulphate of silver, which is soluble in water. The water from the surface, filtering through the veins slowly but surely, washed the silver away, and left the vein barren. We find many veins nearly barren on the surface, but rich below the water level, as the ores below were covered by water, and protected from the action of the oxygen. These chemical changes are seldom or never completed, and hence we rarely find a vein which is entirely barren on the surface, rich beneath. But, still, a large number of the veins that are richest below the water level, exhibit only traces of silver on the surface. If chlorine were present, it would decompose the sulphate of silver, and form chloride of silver, which is not soluble in water, but would remain fixed in the vein. These changes, which Nature works in her secret laboratory, in the course of ages, under a low temperature, are effected in a few hours in a reverberatory furnace. The same elements produce similar changes in either case. The causes cited seem to afford a sufficient reason for the fact, that all the veins in this district require to be opened below the water level before they exhibit rich ore or permanent characteristics. The veins under consideration will not prove exceptions to this general rule.

Rattlesnake Quartz Mining Company.—We have received a copy of the by-laws, etc., of the Rattlesnake Quartz Mining Company. This company was incorporated in September last, for the purpose of mining on certain quartz veins known as the Mississippi, Trinidad and Fairview veins, situated in Big Oak Flat District, Tuolumee county. The capital stock of the company is $27,000, divided into 4,650 shares of six dollars each. The principal place of business of the corporation is in the town of Alameda, Alameda county. Thomas A. Smith and Joel Ray of Alameda, and Joseph C. Boyd of San Francisco, are the corporate trustees.

Mechanical.

THE FOUNDRIES.

Owing to the lateness of the season, and the prospect of difficult and expensive transportation during the winter months, the *heavy* orders for mining machinery are not so numerous as in the early summer; but the demand for shoes and dies, and the lighter articles of machinery for the winter supply, is unusually active. Some small mills have also been ordered, which are to be finished and shipped to their destination before the winter sets in. Among these may be mentioned a 10-stamp mill for Mr. S. Reynolds, of Clear Creek, Tulare county, shipped by Goddard & Co. of the Pacific Iron Works, on Wednesday last, this being the fifth mill shipped to that locality by this establishment within the last few months. Messrs. G. & Co. are also manufacturing a number of Varney's amalgamators, for parties in Humboldt, Nevada, and the machinery for a large flouring mill for the Rogue River valley, in Oregon, in addition to which they have an unusually large amount of jobbing work on hand.

At the Miners' Foundry, the monster sugar mill for the Sandwich Islands, noticed some time since, continues to be the principal feature. The copper work for this mill is being made by Mr. James Macken, on Fremont street, and is of the best quality, to correspond with the iron work now in construction at the "Miners'." Like all the others, this establishment has an immense amount of miscellaneous work on hand, including all kinds of mining, mill, and oil-well boring machinery, among which last we noticed a very beautiful horizontal engine, with cylinder 6x14 inches, intended for the Southern coast, which was almost ready for shipment.

The Golden State Iron Works, though they have turned out nothing very striking, within the last few weeks have been working to their full capacity, having melted over 200,000 lbs. of iron within a month's time, and have exceeded in this department some of their neighbors whose capacity for work is more than double their own.

Direct-Acting Pumping Engines and Direct-Acting Winding Engines.

At a meeting of the North of England Institute of Mining Engineers, assembled in session, by invitation, with the South Lancashire and Cheshire Coal Association, also an association of mining engineers, recently held at Manchester, England, much interesting discussion was had, and several very valuable papers were read, having a bearing upon the mining interests of Great Britain, and the world, as well. The nature of the papers read, and the facilities which have been afforded to the members of these associations for obtaining information, have been such, as, in the estimation of the British public, to render that meeting one of the most important of the kind which has taken place for a great number of years, and the information disseminated by it as most fully reliable, combining as it does the united experience and wisdom of the two most intelligent engineering associations on the globe. Among the papers read, was one by Mr. John Knowles, "On Direct-Acting Pumping Engines and Direct-Acting Winding Engines;" which is of especial practical interest at this time on the Pacific coast. The enormous cost attendant upon the class of pumping engines which are required to draw the deep mines that are now being opened on this coast, for gold, silver and coal, renders of the utmost practical importance to all, any information calculated to reduce this heavy portion of the expense of deep mining. The long experience and the close habits of observation, with the view of economizing power and expense, which characterizes the leading mining engineer associations of Great Britain, would seem to assure us that there is no other source than those to which we can look with greater degree of confidence for the information we desire in this direction. With this view we append the substance of Mr. Knowles' paper, as given in the London *Mining Journal*:

As the pumping engine had greater and earlier attention paid to it, in consequence of the enormous expense that some collieries had been subjected to, on account of the large quantities of water raised, it was, perhaps, desirable to state the improvements made with respect to it. In doing this he (Mr. Knowles) would take the engine at the colliery near Littleborough, as a sample of this kind of engine. It was a direct-acting engine, with a cylinder 57 inches diameter, and a 10 feet stroke. It was placed over the pit, and used to pump the water during the sinking of the shaft. The steam was used on the underside of the piston, at a pressure of 40 lbs. per square inch, and was cut off at a part of the stroke, and when the up-stroke was completed, the steam was allowed to go through a regulating valve to the top side, and make the down stroke, which was then ready for condensing for the next up-stroke. The engine had a beam, with a small balance to counteract the weight of the draw-lift rods. The top set of pumps were 80 yards long, with a ram 20 inches in diameter, and the rods were so arranged that their weight would force up the water to the top of the pit. The lower set of pumps had a bucket-lift, 18 inches in diameter and 46 yards long, and these rods were balanced by the weights on the engine-beam. When the pit was sunk 80 yards, the 20-inch ram-pump was put in, and connected directly with the top rod, and the lower draw lift was put to it in the usual manner. During the sinking of the pit, which was an oval one, there was a feeder of 600 gallons of water per minute to contend with it, and when the engine stopped it rose up the pit 1 foot per minute, and when the clacks had required changing, the change had to be made in 15 minutes. Connected with this engine there was an arrangement by which the handles opening the valves could be so arranged that they would open at any speed, and cause the engine either to work fast or slow at the up-stroke or down-stroke, or, if requisite, remain stationary a short time. There was also a registering indicator, so arranged that every stroke or part of a stroke was counted, which had been at work since the engine started, and it was possible to ascertain the number of strokes it had made since its erection. The first of these indicators was used in 1851, at the Bell Field pumping-engine, and was found so useful that they had since been adopted at all the pumping-engines owned by Messrs. Knowles. One of the advantages of the engine was that there was very little friction between the power exerted upon the piston and the work of raising the rods and water, and of necessity, must use less fuel. Another advantage was that it obviated the risk and chance of such an accident as that which occurred at the Hartley Colliery, as the beam which was used as a balance was kept in such a position that it was almost impossible for it to fall down the shaft.

The first direct-acting pumping engine erected by the late Mr. Andrew Knowles, of Eagley, was at the Eccleston Colliery, near St. Helens, in 1829, when there were many difficulties to contend with, not only on account of the engine, but also as this was the first place where the ram-pump was tried. Since then a great number had been erected, and no doubt the idea of the steam-hammer and the steam pile-driving machines was taken from these. Mr. Knowles had taken the engine at the Clifton Hall Colliery as a sample of the direct-acting winding engine in Lancashire, on account of its being the largest erected by Messrs. Knowles, and having a compensating drum. It was also used for winding water, which gave the opportunity of testing its economical value. The cylinder was 42 in. in diameter, and had a 6-feet stroke; the pressure of steam 45 lbs. per inch. The connecting rod was 18 ft. long, and shaft 14 in. square, and of wrought iron. The compensation drum commenced at 15 ft., and ended at 25 ft. diam. The ropes lapped on the drum from each outside, and their tendency in ascending was to lie against the side of the drum, and avoid slipping off. The outside of the drum was made of English oak, and the grooves were cut into it, iron-plate guards being on some parts of the scroll. A steam brake was used at this engine, and was under the command of the engineer, who could throw on the steam at any moment; and it was so powerful that it would stop the main engine in less than two strokes if it was going at full speed, with all steam on; but if the steam was off it would stop it instantly. The engineer used the brake in his ordinary work, so that it had always to be kept in order, and, therefore, ready for any emergency. The pulleys over the pit were 3 ft. 6 in. from each other, and were 15 ft. diameter, with wrought-iron arms, and the outside rim was arranged to be filled up with timber, so that the rope would not be so much injured. At present the engine had not full work, and the average amount of coal raised was 280 tons per day, from a pit 427 yards deep. The pit was 9 feet diameter for 220 yards, and 10 feet diameter for the remaining depth, and had two ropes in it. The cargoes had two decks, with two wagons of coal, containing 7 cwts. each, on each deck, making 28 cwts. of coal raised at one lift, and it was raised 13 ft. 6 in. in 45 seconds, or at the rate of nearly 20 miles per hour. The greatest speed of the cage when in the middle of the pit was 25 miles per hour. There was also a lowering platform used, which was a great advantage.

The experiments showed that 106,975 gallons could be raised 100 yards by the consumption of one ton of slack, proving that the system was much better than using beam-engines, wheels, and L-legs, but not so economical as the direct acting pumping-engine. In deciding upon this important matter many considerations must be weighed. If the quantity of water to be raised was but small and at a great depth, with sufficient lodge room for a week, then this plan would perhaps be the best—one of the considerations being the great expense of erecting a pumping-engine for a small quantity, when the winding-engine could easily do the work. If the quantity of water was large, even at any depth, the direct-acting pumping engine would be found to be the most economical in the end, and it was certain to be so with a moderate depth.

Mr. Greenwell asked whether he had rightly understood Mr. Knowles that the apparatus could not be stopped till two strokes of the engine had been made? That would be something like 24 fathoms.

Mr. Knowles had only wished to show the great power of brake which could stop the engine, although it was at full speed, but the steam could be taken off, and the brake applied simultaneously. * * * *

Mr. Dickinson thought it very important that so many practical questions should be suggested before the discussion was adjourned; for, if there was one thing more than another in which the Institution might expect to find excellence in this district it was machinery. It would bear comparison with any he had seen elsewhere in this county or out of it. Mr. John Knowles, being connected with a firm which had so many collieries at work in the district, had had so many opportunities of comparison, that he thought that gentleman's paper would be sufficient to establish the superiority of direct-acting engines over those which were indirect. But, although that was the result of his experience, and it would probably be adopted in this county from that date, there were parts of the county where at present direct-acting engines were not used. For instance, in one colliery district the opinion prevailed that the intervention of wheels, so as to make a difference between the velocity of the pump-rods in the pit and the velocity of the piston in the cylinder, was advantageous, and more than counterbalanced the friction inherent in indirect-acting engines. In Cornwall, also, from whence, perhaps, they had the best pumping engines, the old view was that the stroke of the pump-rods should not be the same as the stroke of the cylinder, and for many years he believed all the Cornish engines were made with a difference of about a foot between the two strokes. But latterly, in Cornwall, he had found new engines made with the two strokes equal, so that the theoretical difference was disappearing, and that little balance against the friction would have to be taken off

Molasses from Maize.—The firm of Berthold & Thompson, of St. Louis, assisted by a French chemist named Delmie, are manufacturing molasses from Indian corn by a new process, with imported machinery. The St. Louis *Democrat* of the 10th inst., says the quality is not inferior to that extracted from the best cane, not liable to fermentation, and of good flavor, body, color, and saccharine properties. The *Democrat* speaks of the cheap rate at which this article can be furnished, and adds

From one bushel of grain three gallons of molasses can be extracted at least. The market value, therefore, of the corn staple of our own fields will decide the quotations of molasses, and preclude the possibility of these prime necessaries from presenting, as has often been the case, a wide difference in prices. Indeed, the farmer is thus made the recipient of the additional advantage and profit of raising his own saccharine, and saved the trouble and expense of making an exchange of products through commercial channels for the purpose.

The New Overland Telegraph.—Work has been commenced on the new Overland Telegraph between this place and Austin, says the Virginia *Enterprise*. The line will extend from Chicago to San Francisco. The eastern end of it is already built and working to near Denver, and work has been done between here and San Francisco. Before many months elapse we shall have two lines of telegraphic wire across the plains.

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, October 7.

1 sh Savage at 1100 per foot. s 3.
6 shs Hale & Norcross at 675 per foot.
2shs Hale & Norcross at 660 per foot.
2 shs Hale & Norcross at 650 per foot.
5 shs Hale & Norcross at 655 per foot.
3 shs Belcher at 805 per foot. b 10.
3 shs Belcher at 800 per foot, b 10.
3 shs Belcher at 760 per foot, s 3.
6 shs Belcher at 760 per foot, b 10.
3 shs Belcher at 740 per foot, b 10.
2 shs Yellow Jacket at 1180 per foot, s 30.
1 sh Yellow Jacket at 1200 per foot, s 5.
1 sh Yellow Jacket at 1200 per foot, s 3.
1 sh Yellow Jacket at 1200 per foot.
3 shs Yellow Jacket at 1190 per foot.
2 shs Yellow Jacket at 1220 per foot, b 30.
1 sh Yellow Jacket at 1200 per foot, b 3.
1 shs Yellow Jacket at 1200 per foot, s 30.
2 shs Yellow Jacket at 1210 per foot.
1 sh Yellow Jacket at 1215 per foot, b 10.
2 shs Yellow Jacket at 1220 per foot, b 10.
1 sh Yellow Jacket at 1205 per foot, s 3.
2 shs Yellow Jacket at 1205 per foot, s 10.
24 shs Ophir at 510 per foot.
12 shs Ophir at 507½ per share.
60 shs Ophir at 510 per foot, s 10.
12 shs Potosi at 515 per toot, b 10.
48 shs Ophir at 515 per foot, b 3.
12 shs Ophir at 515 per foot.
12 shs Ophir at 515 per share, b 30.
40 shs Haney at 31½ per share.
60 shs Haney at 32 per foot, b 3.
8 shs Gould & Curry at 1160 per foot.
20 shs Chollar at 470 per foot.
5 shs Imperial at 225 per share.
25 shs Imperial at 225 per share.
11 shs Imperial at 224 per share.
6 shs Imperial at 222¼ per share, s 3.
61 shs Imperial at 221 per share.
15 shs Imperial at 220 per share.
25 shs Imperial at 220 per share, s 30.
5 shs Imperial at 222 per share, b 3.
20 shs Imperial at 220½ per share, s 3.
5 shs Imperial at 222½ per share, b 30.
5 shs Imperial at 221 per share, b 10.
2 shs Overman at 160 per foot, s 5.
4 shs Overman at 150 per foot, s 30.
10 shs Bullion at 125 per share.
5 shs Bullion at 127 per share.
10 shs Nevada (J. G.) at 17 per share.
20 shs Nevada, J. G., at 16½ per share.
5 shs Nevada, J. G., at 16 per share, s 3.
1 sh Confidence at 102½ per share.
14 shs Confidence at 100 per share.
120 shs Sierra Nevada at 23 per share.
20 shs Lady Bryan at 6¼ per share.
10 shs Lady Bryan at 6 per share.
8 shs Empire M. & M. Co. at 235 per share.
2 shs Empire M & M Co at 232½ per share.
2 shs Cal S Nav Co at 76 per cent, s 30.

Amount of sales.....$ 87,329 00

Monday, October 9.

60 shs Ophir at 510 per foot.
120 shs Ophir at 475 per foot, s 90.
1 sh Yellow Jacket at 1190 per foot.
1 sh Yellow Jacket at 1185 per foot, s 10.
I sh Yellow Jacket at 1180 per foot.
1 sh Yellow Jacket at 1175 per foot, s 10.
1 sh Yellow Jacket at 1150 per foot, s 30.
1 sh Yellow Jacket at 1150 per foot.
1 sh Yellow Jacket at 1140 per foot, b 10.
1 sh Yellow Jacket at 1125 per foot. b 10.
2 shs Yellow Jacket at 1110 per foot, b 10..
1 sh Yellow Jacket at 1095 per foot.
1 sh Yellow Jacket at 1100 per foot, b 30.
2 shs Savage at 1130 per foot, r w.
3 shs Belcher at 700 per foot.
20 shs Hale & Norcross at 620 per foot.
4 shs Hale & Norcross at 615 per foot.
2 shs Hale & Norcross at 600 per foot.
2 shs Hale & Norcross at 560 per foot, s 3.
11 shs Hale & Norcross at 560 per foot.
5 shs Hale & Norcross at 550 per foot.
2 shs Hale & Norcross at 540 per foot.
2 shs Hale & Norcross at 540 per foot. b 3.
2 shs Hale & Norcross at 550 per foot, s 3.
2 shs Hale & Norcross at 570 per foot, b 10
3 shs Hale & Norcross at 560 per foot, b 5.
4 shs Hale & Norcross at 570 per foot.
2 shs Hale & Norcross at 565 per foot, s 3.
4 shs Hale & Norcross at 570 per foot, s 3.
16 shs Potosi at 445 per foot.
2 shs Potosi at 440 per foot.
4 shs Chollar at 460 per foot.
10 shs Lady Bryan at 6¼ per share.
10 shs Sierra Nevada at 23 per share.
1 sh Confidence at 98 per share
2 shs Imperial at 213½ per share.
5 shs Imperial at 215 per share, r w.
2 shs Empire M & M Co. at 238 per share.
I sh Empire M & M Co. at 237 per sh, r w.
5 shs Bullion at 142 per share.

AFTERNOON SESSION.

12 shs Ophir at 510 per foot.
120 shs Ophir at 510 per foot, r w.
24 shs Potosi at 515 per foot, r w.
12 shs Ophir at 515 per foot.
24 shs Ophir at 512½ per foot, s 3.
2 shs Hale & Norcross at 590 per foot, r w.
2 shs Hale & Norcross at 595 per foot, s 3.
4 shs Hale & Norcross at 600 per foot.
8 shs Hale & Norcross at 595 per foot.
2 shs Hale & Norcross at 580 per foot, s 10.
2 shs Hale & Norcross at 600 per ft, r w.
4 shs Hale & Norcross at 600 per foot, b 5.
5 shs Belcher at 690 per foot.
8 shs Belcher at 692½ per foot, b 3.
1 sh Yellow Jacket at 1050 per foot.
2 shs Yellow Jacket at 1060 per foot.
10 shs Potosi at 435 per foot.
10 shs Potosi at 440 per foot.
20 shs Potosi at 442 per foot.
20 shs Potosi at 445 per foot, s 3.
10 shs Potosi at 447½ per toot,
4 shs Potosi at 447½ per foot, b 10.
10 shs Potosi at 450 per foot, b 30.
8 shs Alpha, G. H., at 1800 per foot.
4shs Alpha, O H, at 1760 per foot.
4 shs Alpha, G. H., at 1725 per foot.
20 shs Imperial at 210 per share.
36 shs Imperial at 212½ per share.
20 shs Imperial at 215 per share.
10 shs Imperial at 215 per share, b 10.
5 shs Imperial at 212½ per shre, r w.
5 shs Imperial at 212½ per share, b 10.
10 shs Imperial at 210 per share, s 3.
4 shs Imperial at 210 per share, b 3.
20 shs Sierra Nevada at 22 per share, s 3.
10 shs Sierra Nevada at 23 per share, r w.
65 shs Bullion at 140 per share.
10 shs N. American, Ex-Sam, at 17 per sh.
5 shs De Soto at 6 per share.

Amount of sales.....$140,160 00

Tuesday, October 10.

24 shs Chollar at 475 per foot.
36 shs Chollar at 483 per foot.
76 shs Chollar at 490 per foot.
20 shs Chollar at 470 per foot, s 30.
84 shs Ophir at 511 per foot. r w.
60 shs Ophir at 512 per share.
48 shs Ophir at 512 per foot, r w.
24 shs Ophir at 511 per foot.
24 shs Ophir at 510 per foot.
12 shs Belcher at 675 per foot.
6 shs Belcher at 655 per foot.
12 shs Belcher at 650 per foot.
2 shs Hale & Norcross at 590 per foot.
14 shs Hale & Norcross at 575 per foot.
12 shs Hale & Norcross at 550 per foot.
4 shs Hale & Norcross at 540 per foot.
6 shs Hale & Norcross at 520 per foot,
6 shs Hale & Norcross at 510 per foot,
8 shs Hale & Norcross at 500 per foot.
16 shs Hale & Norcross at 505 per foot.
4 shs Hale & Norcross at 505 per foot, s 3.
8 shs Hale & Norcross at 501 per foot.
2 shs Hale & Norcross at 515 per foot, b 3.
2 shs Hale & Norcross at 520 per foot, b 15.
6 shs Hale & Norcross at 512½ per foot.
6 shs Hale & Narcross at 520 per fool, b 3.
4 shs Hale & Noreross at 515 per foot, s 3
20 shs Haney at 31 per share.
40 shs Haney at 30 per foot.
60 shs Haney at 30 per foot, s 3.
20 shs Potosi at 460 per foot, r w.
14 shs Potosi at 460 per foot.
18 shs Potosi at 455 per foot.
4 shs Potosi at 455 per foot, s 3.
60 shs Potosi at 455 per foot, r w.
20 shs Potosi at 452½ per foot.
24 shs Potosi at 455 per foot, b 15.
2 shs Yellow Jacket at 1075 per foot.
1 sh Yellow Jacket at 1100 per toot. b 30.
I sh Yellow Jacket at 1125 per foot, b 30.
1 shs Yellow Jacket at 1095 per foot, s 3.
1 sh Yellow Jacket at 1100 per foot, s 3.
1 sh Yellow Jacket at 1150 per foot.
1 sh Savage at 1075 per foot.
20 shs Imperial at 200 per share, s 3.
31 shs Imperial at 195 per share.
20 shs Imperial at 192½ per share.
20 shs Imperial at 190 per share.
4 shs Exchequer at 27 per share.
30 shs Exchequer at 25 per share.
5 shs Bullion at 125 per share.
10 shs Sierra Nevada at 22½ per share.
50 shs Empire M & M Co. at 225 per sh, s 30
100 ihs Firemans' Ins Co, 133 per cent.
500 shs Fireman's Fund at 132½ per share.

AFTERNOON SESSION.

12 shs Hale & Norcross at 510 per foot.
2 shs Hale & Norcross at 510 per foot, b 3.
4 shs Hale & Norcross at 500 per foot.
2 shs Hale & Norcross at 485 per foot.
10 shs Hale & Noreross at 480 per foot.
16 shs Hale & Norcross at 475 per foot.
2 shs Hale & Norcross at 475 per toot.
8 shs Hale & Norcross at 475 per foot, b 3.
2 shs Yellow Jacket at 1100 per foot.
1 sh Yellow Jacket at 1110 per foot.
1 sh Yellow Jacket at 1110 per foot, s 3.
6 shs Yellow Jacket at 1110 per foot.
1 sh Yellow Jacket at 1115 per foot. b 3.
4 shs Yellow Jacket at 1115 per foot. b 10.
1 sh Yellow Jacket at 1115 per foot, b 5.
12 shs Potosi at 511 per foot.
120 shs Ophir at 513 per foot.
60 shs Ophir at 511 per share, s 15.
10 shs Chollar at 500 per foot, b 30.
20 shs Potosi at 455 per foot.
3 shs Belcher at 650 per foot, b 10.
1 sh Belcher at 640 per foot.
1 sh Belcher at 630 per foot. h3.
4 shs Crown Point at 1025 per foot.
150 shs Haney at 30½ per foot.
1 sh Overman at 150 per foot.
200 shs Bullion at 120 per share, s 3.
130 shs Bullion at 120 per share.
10 shs Imperial at 285 per share.
5 shs Imperial at 190 per share.
25 shs Imperial at 195 per share.
5 shs Imperial at 197½ per share, r w.
10 shs Imperial at 200 per share.
10 shs Imperial at 205 per share, b 3.
40 shs Imperial at 210 per share.

Amount of sales.....$239,286.00

Wednesday, October 11.

12 shs Ophir at 505 per foot.
55 shs Ophir at 490 per foot.
24 shs Ophir at 475 per foot.
12 shs Ophir at 470 per foot, s 3.
10 shs Potosi at 452½ per foot, r w.
22 shs Potosi at 445 per toot.
42 shs Potosi at 447½ per foot.
40 shs Daney at 30½ per foot.
168 shs Haney at 30 per foot.
60 shs Haney at 30 per share, s 3.
19 shs Yellow Jacket at 1105 per foot.
1 sh Yellow Jacket at 1110 per foot, b 10.
2 shs Yellow Jacket at 1105 per foot, b 10.
3 shs Yellow Jacket at 1100 per foot.
3 shs Yellow Jacket at 1195 per foot.
2 shs Yellow Jacket at 1095 pr ft, b 3.
10 shs Hale & Norcross at 450 per foot.
8 shs Hale & Norcross at 400 per foot.
6 shs Hale & Norcross at 400 per foot, s 30.
4 shs Hale & Norcross at 415 per foot, s 30.
2 shs Hale & Norcross at 425 per foot.
2 shs Hall & Norcross at 420 per foot.
6 shs Hale & Norcross at 420 per foot, s 3.
10 shs Hale & Norcross at 415 per foot, s 3.
6 shs Hale & Norcross at 410 per foot, s 3.
1 sh Belcher at 625 per foot, b 3.
1 sh Belcher at 615 per foot.
I sh Belcher at 610 per foot.
1 sh Belcher at 600 per foot.
4 shs Chollar at 465 per foot.
4 shs Chollar at 466 per foot, r w.
12 shs Chollar at 460 per foot.
12 shs Alpha, G. H., at 1700 per foot
4 shs Alpha, G. H., at 1650 per foot.
4 shs Alpha, G. H., at 1600 per foot.
5 shs Overman at 120 per foot, s 30.
12 shs Overman at 120 per foot.
14 shs De Soto at 6 per share.
30 shs Imperial at 210 per share.
60 shs Imperial at 217½ per share.
10 shs Imperial at 217½ per share, b10.
16 shs Imperial at 217½ per share, s 3.
20 shs Imperial at 220 per share, b 10.
16 shs Imperial at 215 per share, s 30.
10 shs Imperial at 215 per share, b 10.
6 shs Imperial at 215 per share, s 10.
10 shs Imperial at 210 per share, s 15.
16 shs Imperial at 211 per share, s 15.
1 sh Imperial at 215 per share.
5 shs Imperial at 214 per share.
10 shs Imperial at 212½ per share, s 15.
5 shsImperial at 212½ per share, s 10.
10 shs Imperial at 216 per share, b 10.
8 shs Imperial at 212 per share, s 5.
73 shs Sierra Nevada at 22 per share, s 3.
30 shs N. American, Ex Sam, at 16 per sb.
5 shs Bullion at 115 per share
4 shs Confidence at 95 per share.
1 sh Empire M & M Co. at 230 per share.

AFTERNOON SESSION.

60 shs Haney at 30 per share.
8 shs Alpha, O. H., at 1500 per foot, s 30.
8 shs Alpha, G. H., at 1560 per foot, r w,
2 shs Hale & Norcross at 425 per foot.
2 shs Hale & Norcross at 450 per foot.
2 shs Hale & Norcross at 440 per foot, s 30
6 shs Hale & Norcross at 460@430 per sh.
12 shs Chollar at 460 per foot.
20 shs Chollar at 450 per foot.
8 shs Chollar at 457½ per foot, r w.
4 shs Chollar at 455 per foot.
20 shs Chollar at 440 per foot, s 30.
8 shs Chollar at 460 per foot, b 30.
60 shs Ophir at 470 per foot.
72 shs Ophir at 470 per foot, s 3.
6 shs Sierra Nevada at 22 per share, s 3.
1 sh Imperial at 212½ per share.
40 shs Imperial at 210@209 per share.
10 shs Imperial at 210 per share, b 3.
25 shs Imperial at 208@205 per share.
10 shs Imperial at 205 per share, r w.
10 shs Imperial at 207½ per share, b10.
10 shs Imperial at 205 per share, s 3.
10 shs Bullion at 115 per share.
5 shs Bullion at 112 per share
5 shs Overman at 110 per foot, s 10.
3 shs Overman at 115 per foot.
5 shs Overman at 106 per foot, r w.
5 shs Overman at 100 per foot, s 30.
13 shs Overman at 100 per foot.
10 shs De Soto at 6 per share.
2 shs Empire M & M Co. at 225 per share.
100 shs Crockett at 2¾ per share.
80 shs Spring Valley W W at 50¾ per cent.
8 shs Spring Valley W W, at 51 per cent
5 shs Cal S Nav Co at 75 per cent, s 30.

Amount of sales.....$248,389 00

Thursday, October 12.

24 shs Ophir at 470 per foot.
14 shs Ophir at 460 per foot, b 5.
24 shs Ophir at 460 per foot.
12 shs Potosi at 460 per foot, b 3.
36 shs Ophir at 457½ per foot.
24 shs Ophir at 458 per foot, s 3.
60 shs Chollar at 450@455 per foot.
20 shs Chollar at 452½ per foot, s 3.
20 shs Chollar at 465 per foot, b 30.
20 shs Chollar at 450 per foot, s 30.
8 shs Chollar at 450 per foot, r w.
32 shs Chollar at 445 per foot, r w
2 shs Potosi at 430 per foot, s 3.
16 shs Potosi at 431@430 per foot.
16 shs Potosi at 425 per foot.
28 shs Hale & Norcross at 4'5@400 per foot.
4 shs Hale & Norcross at 425 per foot, b 5.
10 shs Hale & Norcross at 413 per sh, b 10.
22 shs Hale & Norcross at 4 5 per sh, b 3.
2 shs Hale & Norcross at 402½ per sh, s 3.
10 shs Hale & Norcross at 405 per sh, s 3.
2 shs Hale & Norcross at 405 per sh, r w.
360 shs Haney at 30 per foot.
3 shs Beleber at 575 per foot, s 3.
9 shs Belcher at 575 per foot.
13 shs Savage at 575 per foot, s 3.
1 sh Savage at 1000 per foot, b 3.
10 shs Savage at 1000 per foot, b 30.
1 sh Savage at 990 per foot.
1 sh Yellow Jacket at 1080 per foot, h 10.
1 sh Yellow Jacket at 1060 per foot, s 3.
1 sh Yellow Jacket at 1050 per foot.
8 shs Alpha, O. H., at 1600 per foot, s 3.
4 shs Alpha, G. H., at 1600 per foot.
4 shs Alpha, G H, at 1600 per foot, s 5.
8 shs Gould & Curry at 1000@980 per foot.
4 shs Gould & Curry at 975 per foot, b 30.
8 shs Gould & Curry at 970 per foot.
10 shs Golden Rule at 17 per share.
14 shs Overman at 100 per foot.
2 shs Overman at 100 per foot, b 3.
10 shs Overman at 95 per share, s 30.
5 shs Overman at 100 per foot, s 3.
7 shs Overman at 105@102 per share.
10 shs Overman at 100 per foot, s 30.
5 shs Overman at 102 per share, r w.
10 shs Imperial at 202½ per share, s 3.
20 shs Imperial at 205 per share.
20 shs Imperial at 200 per share, s 10.
10 shs Imperial at 201 per share.
10 shs Imperial at 201 per share, r w.
20 shs Imperial at 200 per share.
5 shs Imperial at 202 per share, r w.
10 shs Imperial at 202½ per share, s 10.
120 shs Sierra Nevada at 22 per share.
10 shs Wide West at 4 per share.
3 shs Confidence at 90 per share.
15 shs Bullion at 105@100 per share.
4 shs Bullion at 100 per share, b 5.
5 shs Bullion at 97½ per share.
15 shs Bullion at 95@92¾ per share.
10 shs Bullion at 92½@90 per share, b 3.
10 shs Bullion at 90 per share, b 5.

AFTERNOON SESSION.

12 shs Crown Point at 990 per foot.
28 shs Hale & Norcross at 400@415 per foot.
6 shs Hale & Norcross at 415 per sh, b 3.
15 shs Yellow Jacket at 1055 per foot, b 30.
1 shsYellow Jacket at 1010 per foot, s 30.
4 shs Yellow Jacket at 1009 per foot.
2 shs Yellow Jacket at 1045@1040 p ft, b 30.
12 shs Alpha, G. H., at 1610 per foot, b 30.
36 shs Ophir at 325 per foot. b 30,
24 shs Ophir at 425 per foot, s 3.
12 shs Ophir at 420 per foot, s 30.
48 shs Ophir at 420 per foot, s 3.
120 shs Ophir at 410 per share, s 30.
24 shs Ophir at 420 per foot.
24 shs Ophir at 422½ per foot, s 3.
12 shs Ophir at 430 per foot.
48 shs Chollar at 440@435 per foot.
24 shs Potosi at 425@420 per foot.
1 shs Gould & Curry at 1010 per foot.
1sh Savage at 1000 per foot.
36 shs Imperial at 200@195 per share.
30 shs Imperial at 190 per share, s 30.
25 shs Imperial at 195@196 per share, s 3.
2 shs Imperial at 197½ per share.
10 shs Imperial at 195 per share, b 3.
25 shs Imperial at 195@192½ per share.
5 shs Imperial at 195 per share, r w.
20 shs Imperial at 192½ per share, s 3.
5 shs Imperial at 195 per share, b 10.
65 shs Bullion at 91@90 per share.
5 shs Bullion at 91 per share, r w.
10 shs Bullion at 91 per share, s 3.
3 shs Confidence at 65 per share.
100 shs Crocker & Co at 20 per sh, s 30.

Amount of sales.....$219,364 00

Friday, October 13.

168 shs Ophir at 420 per share, b 30.
60 shs Ophir at 410@400 per foot, s 10.
108 shs Ophir at 405@415 per foot.
216 shs Ophir at 390 per foot, s 30.
240 shs Ophir at 380 per foot, s 30.
156 shs Ophir at 382½ per foot.
15 shs Belcher at 575@580 per foot.
25 shs Imperial at 187½@190 per share, s 30.
50 shs Imperial at 193@192½ per share.
25 shs Imperial at 192@190 per share.
1 sh Savage at 1010 per foot.
5 shs Empire M & M Co. at 200 per sh, s 30.
44 shs Potosi at 480@470 per foot.
4 shs Hale & Norcross at 415 per foot
4 shs Alpha, O H, at 1550 per foot, b 30.
108 shs Chollar at 40@420 per foot.
14 shs Crown Point at 900 per foot.
8 shs Yellow Jacket at 1080@1065, b 10.
5 shs Yellow Jacket at 1055@1050 pr foot.
75 shs State Telegraph at 29 per cent, s 3.
30 shs Bullion at 95@97½ per share.
60 shs Sierra Nevada at 20@19¾ per share.
$ 6,000 Legal Tender Notes at 72¾@72¾.

AFTERNOON SESSION.

192 shs Chollar at 430@435 per foot.
44 shs Potosi at 415@420 per foot.
52 shs Potosi at 415@418 per foot.
18 shs Potosi at 410@412 per foot.
444 shs Ophir at 385@380 per foot.
72 shs Alpha, G H, at 1750@1400 pr ft, s 30.
15 shs Imperial at 192½@195 per share, s 30.
30 shs Imperial at 197½ per share.
8 shs Yellow Jacket at 1080 per foot.
51 shs Overman at 100 per foot.
8 shs Hale & Norcross at 415@410 per foot.
55 shs Bullion at 100 per share.

Amount of sales.....$232,140 00

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board

SAN FRANCISCO, SATURDAY MORNING, October 14th, 1865.

The money market this week has exhibited rather more activity, hnt the requirement as yet is not of sufficient urgency to effect the current rates of interest upon first-class paper and other collateral. In stock circles some stringeney has beeu felt, and the reeent decline in nearly all shares has, for the moment, impaired confidence to such a degree that aecommodations are now obtained with much diffieulty upon this description of security. It is contended, however, that a partial withdrawal of the usunl facilities extended to a number of stock dealers has been the oecasion of the present panie, and that ns soon as the market assumes a little more shape and eonsistency, and certain weak holders have been compelled to realize, capitalists may he expected to exhibit their former confidence in stock collateral loans.

Receipts of Treasure from domestie sources, since Saturday last, amounted to $1,250,000, making an aggregate of $2 150,000 thus far during the current month. The supply of Bullion is likely to he ample for Tuesday's steamer, and gold bars are selling at 840@850. Silver is unchanged, and is quotable at par @ ½ ℗ cent. premium, for average lots.

The arrivals of Treasure in this city, from all sources, during the first nine months of the current year, have been as follows:

From California	$24,029,743
From Nevada	12,404,776
From Victoria and Portland	5,213,901
Imports, foreign	1,300,000
Total	$42,948,420

The above figures include coin as well as hullion. The total recorded receipts of the latter for the past nine months, amounted to $37,984,031, showing an inerease of $2,594,455, as compared with a corresponding period of last year. The receipts from Nevada (nearly all of which were hullion), during a like period in 1864, were about $11,000,000, showing an increase this year of $1,404,000.

The product of all the mines on this coast, received through regular channels and in private hands, from Janunry 1st to September 30th, has prohably reached $45,000,000. The exports of treasnre from this port during the same period amounted to $33,111,365, ns against $43,772,559 in the first nine months of last year.

Since our last issue, the Mining Share Market has been exceedingly nctive, and nearly every stock on the list met with a serious decline. The panic still prevails, and is attributable solely to the sale of a large amount of hypotheeated stock to cover advances. The severity and suddenness of the fall in prices seems to hewilder most operators, and until this feeling subsides, and a little reflection is given to the real character of the different mines, it is reasonahle to anticipate great caution and eveu timidity on the part of those who are disposed to invest in them. A reaction may, however, take place at any moment.

Alpha declined from $1,800 to $1,500, rallied to $1,600, and closed at $1,400, at which rates 38 feet in all were sold. There is no unfavor, ahle change to note in the condition of this mine, and the financial affairs of the eompany are steadily improving.

Yellow Jacket was dealt in to the extent of 130 feet, dropping from $1,200 to $1,060, rallying to $1,115, receding to $1,050, then selling s $1,080, buyer 30, and closing at $1,080. During the week endnig Octobe 2d, 30 tons first-class and 1,266 tons second-class ore were extracte from the mine, and 46 tons first-class and 1,517 tons second-class ore were reduced, yielding an aggregate of $67,545.22. The entire in debtedness of the company, at the close of last month, amounted t $295,359.51. This includes $30,000 due in Octoher, November January, and March next, on aecount of a reeent purchase of ms chinery, and $132,000 maturing in April and July, 1866, in paymen of the Morgan Mill, so that the floating deht now is less thar $134,000. The extraordinary expenses last month exceeding $45,000 mainly for improvements in the South Shaft, and to the Morgan Mill

Savage fell from $1,100 to $990, and $1,000, hnyer 30, then sold at $1,010, and closed nt $1,015. The drift in the lower level now shows different qualities of ore a distance of 60 feet across the lode, and other portions of the mine are said to look well.

Gould & Curry declined from $1,160 to $970, and was held yesterday at $1,100. Three outside mills are now employed in addition to the company's establishment, with a reduction capaeity in all of some 135 tons of ore per day, and the receipts of bullion this month are likely to exceed those of September. Crown Point has been dull and inactive at $1,025@$900, closing at $900 hid. Belcher steadily fell from $805 to $575, then sold at $590, and closed at $590.

Hale & Norcross declined from $675 to $415, rallied to $460, dropped to $405, and was dealt in yesterday at $415@$510. Within this range some 300 feet changed hands. It is said a survey of the surfaee of this claim shows that a considerable portion of the developments made reeently in the seuth winze are within the line of the Chollar-Potosi Company.

Ophir has been actively dealt in, and some 299 feet were sold, reeeding from $515 to $417, then changing hands at $390, and closing at about $380. There is nothing new from this elaim. Chollar was dealt in to the extent of 250 feet, advancing from $460 to $500, buyer 30, dropping to $445, then selling at $400, and closiug at $435. Potosi has also been active, and 245 feet changed hands at $460@$390, closing at $412. Advices from this mine continue favorable:

Imperial, in view of the decline of all other stoeks, has been rather well sustained; declining from $226 dividend on to $185 ex-dividend, advanciug to $220, reeeding to $200, rallying to $205, and selling yesterday at $190@$197½. More than 1,000 shares were sold within this range. The company has purchased the Lindauer & Hirschman mill on the Carson for $60,000, payable in monthly installments, ruuning over a period of six months. This mill is said to he complete in all respects, with 24 stamps, and cost about the sum to be paid for it. It is now at work for its new owners, and will crush some 15 tons of orc per day, without interfering with the present water-power of the Rock Point Mill. This latter establishment reduced, last month, 1,500 tons of ore, yielding $57,019.45, or an average of $38.01 per ton, and the Gold Hill mill crushed 907 tons, which yielded $31,089.05, an average of $34.28 per ton. During the month of September, 2,815 tons were extracted from the mine, leaving on hand 2,183 tons September 30th. The crushing capacity of the three mills will probably exceed 3,000 tons this month, (some 600 tons more than last,) and the receipts of bullion are likely, therefore, to he increased.

Empire Mill nnd Mining Company fell from 237 to 200, and closed at $200. Overman dropped from $120 to $100, nnd sold yesterday at $105. Bullion fell from $142 to $90, then sold at $97, and closed at $100. Sierra Nevada was sold at $23@$17, closing at $18, and Daney closed at about $25 hid. The recorded sales of Stocks since Saturday, last inclusive, amounted in the aggregate to $1,166,909.

INING SHAREHOLDERS' DIRECTORY.

ist of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

mprising the Names of Companies, District or County f Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time f Payment of Dividends.

COMPILED FOR EVERY ISSUE.

dvertised in the Mining and Scientific Press and other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELING'T LIST.	DAY OF SALE.
ollo, Lander co., 50c		Oct 7	Oct 23*
ams, Petroleum, Contra Costa co., $7.50		Nov. 3	Nov. 15
or, Storey co., Nev., $1.50		Nov 11	Nov 27*
zona Copper, Arizona		Sale, Oct 17	
lla Vista, Lower Cal., 30c		Oct 14	Oct 28*
ck Ledge, Lander co., $2		Oct 7	Oct 21*
e Ledge, Lander co., 50c		Oct 7	Oct 23*
ion, El Dorado co., 50c		Nov 7	Nov 21
nker Hill, Eldoralo co., $1		Oct 7	Oct 19
rning Moscow, $15		Oct 6	Oct 18
key e, Lyon co., Nev., $3		Oct 7	Oct 23
inas, Marin co., 50c		Nov 4	Nov 20*
te, Humboldt co		Nov 15	Nov 27
dillera, Chihuahua, Mex., $2		Sept 26	Oct 14
wn Point, Storey co., Nev., $25		Oct 4	Oct 20
plomeria, Sonora, Mex., $5		Oct 14	Oct 28
tez, Lander co., Nev., $2		Oct 18	Oct 31
net, Petroleum, Humboldt co, 30c		Nov 18	Dec 4*
oralo M. and M. co		Annual Meeting, Nov 13*	
edonia Tunnel		Annual Meeting, Nov 13*	
s Padre, Sonora, Mex., $2		Oct 4	Oct 17
mond, Del Norte co., $2		Oct 19	Nov 7
ney, Lyon co., Nev., $1.50		Nov 6	Nov 25
s Padre		Annual Meeting Oct 16	
vard Everett, Lander co., 25c		Oct 14	Oct 28*
Taste		Annual Meeting Oct 17	
chequer, Storey co., Nev. $2		Oct 2	Oct 17
chequer		Annual Meeting Oct 16	
ca Cons., Del Norte co., 50c		Nov 4	Nov 20*
rida, Reese River, Nev. $10		Oct 18	Nov 4
rge Washington, Alpine co., $1		Oct 21	Nov 6*
d Hope, Alpine co., 50c		Oct 14	Oct 28*
den Rule, Dividend		Payable Oct 20	
dalupe, Chihuahua, Mex. $25		Oct 3	Oct 18
d Canon Cons., Storey co., Nev., 55c		Nov 6	Nov 25
hest Miner, Lander co., 50c		Oct 28	Nov 13*
scom, Copper, Del Norte co, 15c		Nov 11	Nov 27*
e & Norcross, Storey co., Nev., $25		Oct 9	Oct 23
perial		Dividend Payable Oct 10	
an Valley		Meeting Oct 17	
Lane, Lander co., 50c		Oct 7	Oct 23*
rett, Storey co., $1		Nov 11	Nov 25*
a		Annual Meeting Oct 16	
phine, Coso District, $1		Oct 25	Nov 9
ttucky, Calaveras co., $1		Oct 10	Oct 30
ox, Alpine co., 40c		Nov 11	Nov 25*
Favorita, Sonora, Mex. 50c		Sept 30	Oct 14*
blanca, Sonora, Mex., 2 50		Oct 12	Oct 25
don, Siskiyou co., 50c		Oct 20	Nov 10
y Bell, Del Norte co., 15c		Nov 2	Nov 14
Victorie, Mariposa co., $3		Nov 4	Nov 20
cha Plana, Calaveras co., $2		Levied Oct 9*	
mmoth, Alpine co., $1		Oct 21	Nov 6*
ones and Stanislaus, Calaveras co., $2 50		Nov. 7	Nov 20
th American Tin, Mexico, $1		Oct 14	Nov 1*
parell, Tuolumne co., $1		Oct 23	Nov 6
th American, Virginia, Nev., $10		Sale Oct 20	
stra Senora de Guadalupe, Jalisco, $6		Oct 16	Oct 28
stra Senora de Guadalupe, Durango, 70c		Oct 21	Nov 6
arlo, Lander co., 50c		Oct 21	Nov 6*
Colony Lander co., $6		Oct 14	Oct 28*
air, Storey co., Nev., $8.33½		Oct 3	Oct 18
rville, Butte co., $1		Nov 18	Dec 2*
rro, Lander co., 10c		Oct 21	Nov 4*
ter, Virginia, Nev. $5		Sept 30	Oct 14*
osi, Storey co., Nev., $9.50		Nov 6	Nov 20
agon, Humboldt co., 30c		Oct 4	Oct 26
vidential, Lander co., Nev		Sale Oct 27	
rocina and Dolores		Annual Meeting Nov 13	
ugio		Meeting of Trustees Oct 9, 4 P.M.	
ugio, Chihuahua, Mex., $2 50		Nov 11	Nov 24
thern Light, Lander co., 50c		Oct 28	Nov 15*
pson, Alpine co., 25c		Oct 14	Oct 28*
regated Belcher, Storey co., $2		Oct 7	Oct 23*
ra Nevada, Storey co., Nev., $7.50		Oct 7	Oct 21
shone, Lander co., Nev., $2		Oct 9	Oct 23
mbo, Tuolumne co., 75c		Nov 6	Nov 25
rra Nevada		Special Meeting Oct 14	
regated Belcher		Annual Meeting Oct 21	
Fernando, Petroleum		Adjourned Meeting, Nov 6*	
rus, Lander co., 50c		Sept 30	Oct 14*
nidad & San Jose, Copala, Mex., $10		Oct 6	Oct 20
ited States, 25c		Oct 21	Oct 28*
ilpi, Arizona, $1		Oct 14	Oct 30*
de West, Alpine co., $1		Oct 14	Oct 30*
de West, Esmoralda, Nev., $5		Nov 6	Nov 20
Semite, Humboldt co., Nev., $1.25		Oct 21	Nov 6*
nkee Blade, Lander co., 30c		Oct 7	Oct 27*
ba, Brown Valley		Annual Meeting, Oct 21	

*Those marked with an asterisk (*) are advertised in this urnal.

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co.'s, southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Bullion	Sept 8	16 00
Curtez	Sept 21	2 00
Flowery Hill	Sept 27	2 00
Globe	Sept 17	1 00
Gold Canon	Oct. 5	55
Hale & Norcross	Sept 8	25 00
Mount Morale and Lincoln	Sept 29	15
Nevada	Oct 5	7 00
Potosi	Oct 6	9 50
Peck	Sept 13	1 00
Rogers	Sept 12	5 00
Sierra Nevada	Sept 17	7 50
Segregated Belcher	Sept 9	2 00
Schiller	Aug 23	1 00
Sand Springs Salt	Oct 1	5 00
United States	Sept 15	25

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale
American Flat Nevada	Oct 14	Virginia
Branch Mint	Oct 28	Virginia
Bishop	Oct 27	Gold Hill
Burning Moscow	Oct 18	San Francisco
Central Hawkeye	Oct 13	Gold Hill
Crystal Peak Coal	Oct 11	Virginia
Combined Effort	Oct 20	Gold Hill
Crown Point	Oct 20	San Francisco
De Groot	Oct 31	Virginia
Exchequer	Oct 17	San Francisco
Globe	Oct 16	Virginia
Hamilton	Oct 18	Virginia
Kossuth	Oct 14	Virginia
Keystone	Oct 20	Gold Hill
Napoleon Consolidated	Oct 16	Virginia
Nevada	Sept 25	Virginia
North American	Oct 20	Virginia
Orleans Flat	Oct 26	Virginia
Sierra	Oct 16	Virginia

San Francisco Stock and Exchange Board.

SAN FRANCISCO, October 7th, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ —	$ 74
Gov. Legal Tender Notes	72¼	72¾
State Bonds, 7 ₱ cent	80	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	70	..
San Francisco Bonds, 1858, 6 ₱ cent	05	..
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	60	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	77½
Butte County Bonds, 10 ₱ cent	..	80
California Navigation Co	76	76
State Telegraph Stock	25	..
San Francisco Gas Co	99	..
Sacramento Gas Co	..	75
Spring Valley Water Co	50	50½
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	..	..
Central Railroad Co	..	..
North Beach and Mission	104½	..
MINING STOCKS.		
Ophir	$ 380	$ 385
Gould & Curry	1050	1100
Empire M. & M.	....	....
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	1010	1020
Chollar	430	435
Potosi	412	415
Hale & Norcross	410	415
White & Murphy	....	....
Sierra Nevada	17	18
Dancy	30	31
Burning Moscow	..	..
Lady Bryan	..	..
Sacramento & Meredith	....	....
Burnside	....	....
Iowa	....	....
El Dorado	....	....
North American	....	....
Baltimore American	....	....
Yellow Jacket	1080	1090
Overman	105	110
Cedar Hill Tunnel	....	....
Wide West	2	4
Crown Point	900	910
Antelope	....	....
Emeralda	1	5
Ætna	....	....
Real del Monte	..	15
Silver Hill	....	....
Utah	....	....
Justis	....	....
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co	....	....
Melones and Stanislaus	....	....
Sheba	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H.	100	105
Buckeye	....	....
Dick Sides	....	....
Imperial	193	200
Alpha	1400	1410
Bajazett	....	....

Lost or Stolen.

There was lost, or stolen, from our collection of minerals, etc., at the Mechanics' Fair, a sample of the late Telegraph Cable. The lost piece is three inches in length, by one and one-sixteenth in diameter; brass ferrel on each end with raised letters, viz: "Glass, Elliott & Co., Contractors, London." Any person who will return the article to this office, or give information of its whereabouts, will be suitably rewarded.

DEWEY & CO.,
Publishers Mining and Scientific Press.

To Blacksmiths.

An excellent, strong lad, from the interior, 17 years of age, desires to learn the Blacksmith's trade. His parents wish him to engage with a reputable firm, and learn his business thoroughly. Address, or inquire at the office of the MINING AND SCIENTIFIC PRESS. 12v1tf

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	80	87
do pickled ₱ lb	55	05
do Oregon		50
do New York, ₱ lb	40	50
Cheese, ₱ lb	22	35
Honey, ₱ lb	30	40
Eggs, ₱ doz		70
Lard, ₱ lb	33	
Hams and Bacon, ₱ lb	28	30
Cranberries, ₱ gal	75	1 00
Potatoes, sweet, ₱ lb	2	5
do Irish, ₱ lb	1	2½
Tomatoes, ₱ lb	5	8
Onions, ₱ lb	6	—
Apples, No. 1 ₱ lb	4	10
Pears, table ₱ lb	3	10
Plums, dried, ₱ lb	15	25
Peaches, dried, ₱ lb	15	25
Grapes, ₱ lb	5	10
Oranges, ₱ doz	75	1 00
Lemons, ₱ doz	1 50	2 00
Chickens, apiece	62	1 00

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 25	7 00
Do Superfine	6 00	6 50
Corn Meal, ₱ 100 lb		00
Wheat, ₱ 100 lb	1 90	2 00
Oats, choice, ₱ 100 lb	1 42½	1 45
Barley, ₱ 100 lb	92½	97½
Beans, ₱ 100 lb	3 20	3 35
Potatoes, ₱ 100 lb	75	1 12
Hay, ₱ ton	10 00	15 00
Live Oak Wood, ₱ cord	8 00	10 00
Beef, on foot, ₱ lb	6	8
Beef, extra, dressed, ₱ lb	12½	15
Sheep, on foot,	1 00	2 00
Hogs, on foot, ₱ lb	10	12
Hogs, dressed, ₱ lb	15	10
Groceries, Etc.		
Sugar, crushed, ₱ lb	16	17
Do China	10	12½
Coffee, Costa Rica, ₱ lb	27½	30
Do Rio	26½	27½
Tea, Japan, ₱ lb	85	95
Do Green	70	80
Hawaiian Rice, ₱ lb		10
China do	8	10
Coal Oil, ₱ gal	1 60	1 75
Candles, ₱ lb	23	25
Ranch Butter, ₱ lb	55	65
Isthmus do	35	42
Cheese, California, ₱ lb	20	26
Eggs, ₱ doz	60	65
Lard, ₱ lb	28	30
Ham and Bacon, ₱ lb	28	30
Shoulders	20	22
Soap—Pale & C. O	12½	15
Oastile	16½	17½

San Francisco Metal Market.

PRICES FOR INVOICES.

Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

SAN FRANCISCO, Oct. 7th, 1865.

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1½c ₱ lb; Sheet, polished, 3c ₱ lb, common, 1½@2½c ₱ lb; Plate 1½c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2½c ₱ lb.

Scotch and English Pig ₱ ton	35 @38
American Pig ₱ ton	35 @36
Refined Bar, bad assortment, ₱ lb	2½@—
Refined Bar, good assortment, ₱ lb	3½@—
Boiler No. 1 to 4	4 @ 4½
Plate No. 5 to 9	4½@—
Sheet No. 10 to 13	4 @—
Sheet No. 14 to 20	5 @—
Sheet No. 24 to 27	5½@—

COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb

Sheathing ₱ lb	30 @32
Sheathing, Old	25 @35
Sheathing, Yell	30 @32
Sheathing, Old Yell	12 @12
Bolts	.. @ ..
Composition Nails	30 @32

TIN PLATES.—Duty: 2½c ₱ lb.

Plates, Charcoal, IX ₱ box	10 @12
Plates, I C Charcoal	9 @10½
Rooting Plates	9 @ 10
Banca Tin Slabs, ₱ lb	41 @42½
STEEL.—English Cast Steel, ₱ lb	12½@16
QUICKSILVER.—Per lb	— @65
For export	55 @—
ZINC.—Sheets ₱ lb	9½@10
LEAD.—Pig ₱ lb	7 @ 8
Sheet	10 @12
Pipe	10 @13
Bar	9½@10

MINING AND SCIENTIFIC PRESS

PATENT AGENCY.

For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 4th, 1861, and March 3d, 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent, And if the final fee for such patent be not paid within the said six months, the patent shall be witheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $25. The caveator fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $30 to $40. If the patent is granted no further agency expenses cnaues. If the application is rejected we a cause thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our clients.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & CO., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inveutor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented at the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the date of their application in the Patent Office, as it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 years and 6 mos	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every application for a patent, for seventeen years	15
On every caveat	10
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, No. 505 Clay street, corner of Sansome, San Francisco.

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertisiug than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

POSTPONEMENTS.—We would again call the attention of Secretaries to a certain point of the miniug law, too commonly overlooked, viz: The requirement that all postponements must be added previous to the expiration of the regular publication of assessment or sale notices.

The Silver Mines of Nevada.

Mr. Bowles, of the Springfield (Mass.) *Republican*, in a recent letter describes the silver mining region of Nevada, first speaking of the vicinity of Austin, the easternmost of the mining towns in our State. He says:

OF THE REESE RIVER MINES.

All up the Austin hillsides, among the houses, and beyond them, are the big ant hills that denote mines or the hopes of such. Down in the valley are the mills for crushing and separating the ore. Back and around the corners, and over the mountains for many miles, are similar though less frequent signs. The main Austin belt, however, has been successfully traced for but five miles, and one in width. The veins of ore lie thick in the rotten granite of the hills, like the spread fingers of some mineral giant. They are small, sometimes as inches, rarely widening to more than three or four feet. But to compensate for this disadvantage, they are exceedingly rich and generally reliable. About fifty veins are now being worked, successfully, and as many more have been satisfactorily prospected, and are being put in condition for operation, or are now awaiting the coming of capital and its machinery. Water flows into all the veins freely, and much labor is required to pump it out. But few of the mines have mills connected with them; several of the older and strong companies only combine both operations, and make the two profits.

The mills are located with regard to wood and water, rather than to the ore, and the latter is carried sometimes for miles to be worked. Half a dozen mills, working some 75 stamps in all, are already put up in the Austin and neighboring cañons; but only about 50 stamps are now at work. The number will be speedily doubled by mills going up or in repair. The ore yields from $100 to $400 in silver and gold per ton; but at present prices it costs nearly or quite $100 to mine and work it, so that that which yields only $100 cannot be profitably worked. Consequently, miners who have no mills, separate their ores, and hire worked out only the most valuable, saving the rest up until competition brings down the price of milling, or they erect mills of their own. The charge for working the ores at the mill is $80 per ton, about half of which is profit. The same work can be hired done at Virginia for $40 and $50. The ore of one mine near Austin has averaged $180 per ton for many months, and yields a net profit of at least $100 a ton to its owners. Another company, owning both mill and mines finds its ores yielding $150 a ton without assorting, and the cost of getting out and working is but $50; so that working six tons a day, their steady profits are $600 daily, on an expenditure, in investments, of less than $200,000, and the employment of about 30 men.

New York companies are now coming in here and putting up fine new establishments. One hundred thousand dollars will pay for a fine large mill with 15 to 20 stamps. Promising prospected mines can be bought for from $10,000 to $100,000. It is not advisable for new enterprises to erect mills: first, because there will probably be soon enough in the region to supply present wants at a fair price; and second, because so soon as cheaper and more speedy communication can be obtained, the ores will be transferred to other places, where fuel and water are more abundant for milling. Even now, with freight 10 to 12c. a pound, from Austin to San Francisco, all the ore from one mine in Austin is sent to England to be worked. New discoveries of valuable ore are constantly being made both in the immediate neighborhood of Austin, and far south and north on the same range of mountains. In both directions veins equally rich and much larger have been found; and many parties are busy prospecting. Scattered mills are also in operation in these remote localities; and many a mining village is struggling for notoriety among the Humboldt mountains to the northwest. But Austin is the chief point of mining population and development in central Nevada, as Virginia in the Western.

THE MINES ABOUT VIRGINIA CITY.

But Virginia presents many contrasts to Austin. It is three or four years older; it puts its gambling behind an extra door; it is beginning to recognize the Sabbath, has many churches open, and closes part of its stores on that day, and has a thrifty and enterprising air, and contains a population of 10,000, besides the adjoining town or extension of Gold Hill, which has about 3,000 more. Different, too, in its mines is Virginia and Austin. Instead of numerous little veins, the wealth of Virginia lies in one grand ledge of ore, running along the mountain side, just within the upper limit of the town, for three miles; of width, from fifty to one hundred feet, and of depth incalculable. This is the famous Comstock Ledge, and no silver mines worth working have yet been found off from it, in the neighborhood of Virginia; though thousands of dollars and years of labor have been spent in the search. Nor has the working of this ledge at its various points been at all attended with uniform success. At least as many companies have failed upon it as have succeeded. Only 14 out of 30 companies formed and still at work upon the Comstock ledge have paid dividends. One company has spent over a million dollars in the vain pursuit of "pay ore;" the vein it has, the ore it finds, but not rich enough to pay for milling.

The success of other companies has been more marked even than these failures, though they be fewer in number. The Gould & Curry is the largest and most famous enterprise here. It has 1,200 feet on the surface of the ledge, has dug down 600 to 800 feet in depth, and back and forth on its line twenty or thirty times; its whole excavations are five millions of cubic feet, and affording some 200 miles of underground travel, and consuming more lumber to brace up the walls than the entire city of Virginia above the ground has used for all its buildings, with the largest and finest mill probably in the world, costing nearly a million of dollars and running 80 stamps. This mammoth enterprise has only drawn $180,000 from its stockholders, and has paid them back four millions in dividends. Altogether it has produced twelve millions of bullion, and but for extravagance in management and the necessity for many a blind and expensive experiment, its profit share would have been at least 50, instead of 33, per cent. In one year its yield was four and a half millions, and its profits one million; but with a railroad to San Francisco, it would have swollen its net to the owners to three millions!

At one time the mine sold at the rate of $6,000 a foot, but now it is down to about $1,800; for though it is making bullion at the rate of two millions a year, and pays handsome monthly dividends uninterruptedly, it has about exhausted all the valuable ore in its mine at the present depth, and is working up mainly the poorer ore that it rejected in its first progress through the mine. The Ophir company is another of the mammoth enterprises. That, too, has taken out twelve millions of bullion, but the stockholders have not got much as their share, in consequence of extravagant and fickle management, and experiments that proved expensive failures. The Savage company, owning another large and successful mine, has taken out six millions bullion.

That part of the ledge lying in Gold Hill is divided up into smaller properties, such as 100 and 200 feet, and one as low as ten feet, measuring the surface; and these have been worked generally to better advantage than the sections in Virginia. The Empire Company's claim has sold as high as $18,000 per foot, the highest price ever obtained by any mine here; but it has grown less profitable and interrupted in its dividends since, and has fallen to from $3,000 to $4,000 per foot. This company never took any money from its stockholders, and in only one month through its operations of some years has it failed to pay expenses. Another successful and popular company in Gold Hill is the Yellow Jacket, which has taken out about $2,000,000 of bullion, and paid its stockholders about $330,000, or $35,000 more than all their assessments. But among its heavy expenditures, which suggests the ruin of many of these mining companies, is an item of $270,000 for "legal services and quieting title."

The Comstock ledge ore is, with small exceptions, much more simple in its combinations than that at Austin, and requires only to be crushed and amalgamated to extract the bullion. These two processes will produce from 60 to 80 per cent. of all the precious metal. It is also less rich than the Austin ore; $50 is a good average per ton, and is about what the Gould & Curry claims for what it makes of its own ore. But the average of all the mines is even less than that. One mine reports an average yield for the year of only $30.26 per ton; and the product of the whole ledge for the first three months of the present year is given to me as about 100,000 tons, yielding nearly a $1,000,000, and averaging a fraction less than $40. To meet this lower yield per ton, however, is a greatly decreased cost of working the ore, which does not need the roasting or smelting process, and the whole expense of mining and reducing, which does not exceed $25 per ton, is reduced to $18 and $20 by the Gould & Curry company. The probability is, that even this cost may be much reduced, and that ore that does not yield $10 and $15 to the ton can soon be worked with profit. A choice selection of the Gould & Curry ore, such as promises $1,000 a ton or over—for there are streaks of such in all the mines—is sent to Swansea, Wales, for working. This amounts to say 50 tons a year. A next lower quality, which will yield $200 or $300 a ton, and amounts to some 50 or 60 tons a month, is sent over into the neighboring valley of Washoe to be treated by the Freibourg process, which includes the roasting, and is the same as is necessary for all the Reese River ores. The balance or bulk of the product is treated at their own mill, which disposes of about 100 tons a day, or, if there is an excess, as there often is, at some neighboring custom mills.

MILLS AND COMPANIES.

There are, in all, seventy-seven quartz mills working on ore from the Comstock ledge, 22 of which are connected with mines, and 55 are custom mills. They are located in four different counties, only about half being in the same county with the mines whose ores they crush. Fifty-four of them are run by steam, twelve by water and eleven by water and steam combined. They have in all 1,019 stamps, and their capacity is 1842 tons daily, which is only about two-thirds employed now. The mines have been running down in daily production from 1,640 tons last October to 1,000 tons in June, but are now increasing again, and if the present search for paying ore at lower depths in the leading mines is realized, it will speedily go up to a higher point than it ever before reached. The present product of the whole State is probably nearly twenty millions a year, of which Austin is sending forward a million and a quarter, and Virginia and Gold Hill fifteen to sixteen millions. Though the bullion, as perfected here, looks like pure silver, nearly or quite one-third of it in value is really gold; and this is extracted after it gets to market in England, or by the United States mints in the East. During the great excitement of 1862, when the Austin mines were discovered, and the Comstock ledge was doing its best, there was a wild speculation in mining properties, and many bogus or wildcat claims were bought and sold, and numerous companies organized that never did any business.

Some statistics before me give 700 as the number of companies incorporated to operate on the Comstock ledge alone; but of these but one hundred had prospected mines, and only fourteen have operated so successfully as to pay dividends. Most of the capital invested in the Nevada mines so far has been Californian. Eastern capital and Eastern men are now coming hither in force, and promise soon to start up anew the rather dormant life of the State, and give rapid and profitable development to its great mining wealth. One small circle of New York capitalists have already invested about two millions dollars in mill and mines here and in Austin, and by the help of a liberal faith and the employment of first-class agents, are doing well in all their enterprises.

CONCLUSIONS AND ADVICE.

The mines of the Reese River district (Austin, etc.) though of narrow veins, offer the most promising field for new enterprises. They are richer, and seem to be more certain to hold out than those of the Comstock ledge; though in the matter of continuance they need yet further testing.

Beginners in the business should not be in haste to buy or erect mills. There is a superabundance to-day of that sort of property on the Pacific coast. Those at Virginia and its neighborhood are not worth what they cost (six millions) by at least 25 or thirty per cent., and the engines can probably be bought cheaper on this coast than they can be bought in New York and shipped around or across the mountains.

Foremen of mills and mines, first promoted from pick and shovel, are good material for such positions, and are gaining them. The miners, as a class, are of a higher grade than Eastern laborers, and they offer many cases fit for the upper places in business. I was impressed with the wisdom of an organization which a party of Rhode Island capitalists had made in Colorado. They combined four or five different mines and mills, each distinct in its affairs, under the general management or overseership of an experienced, scientific miner from California, and sent along with him from home a common treasurer and accountant. In this way they got the benefit of the best talent and experience, and the most reliable guardianship over the expenditures, without making the cost thereof too heavy.

Do not make the capital of your mining company out of all proportion to the cost of the enterprise. Avoid putting up a property that has cost $100,000 and needs a working capital of as much more, to two millions, because you may hope sometime to pay a ten per cent. dividend on such a sum. And, then again, do not insist on having a dividend at the end of thirty days, unless you are ready to pay an assessment at the beginning thereof to meet it.

When somebody offers a mine, where ore assays $1,000 or $10,000 a ton, you need not necessarily dishelieve him, but do not necessarily conclude that all its ore, for an indefinite distance into the earth, is of equal value. The Comstock ledge was opened with a chunk that yielded $20,000 to $30,000 per ton, or at that rate; but the mines on that ledge that are paying at all, do not average $40 to their ore. Every day new discoveries are being made, south and north, in the State, of leads whose surface ore pays, according to report, any amount this side of $100,000 a ton; yet it does not follow that the mine below it will even pay for working.

And if you have neither time nor money enough nor disposition, perhaps, to go largely into these mining enterprises, and follow their management intelligently, but still would like to make some small ventures to fortune in this direction, seek out some company that are in or going into business, on these principles, and that have got a reasonably sure thing of it, and make your investment with them; and then be content with 25 per cent return from your money. If it yields more, give it away in charity.

How to Train Athletes.—The Yale boat clubs wrote to England last spring, and got from the secretary of the English University clubs the style and dimensions of the champion shells, from which a boat was constructed, but too late to allow the crew time to accustom themselves to it. An upset was feared, and one of McKay's best shells was substituted. The English boat was fifty-one feet long, twenty inches wide, and twelve inches deep. The Yale men rowed tolerably hard all this summer, and for a few weeks previous to the regatta put themselves upon rigid diet and exercise, rising at six o'clock and immediately taking a sharp walk, and a "spurt" of a run for five minutes. Being rubbed down, on return, with towels and hair gloves, they took a sponge bath, and breakfasted at eight o'clock upon chops and steaks, pilot bread, black tea, and fried potatoes. At tea o'clock they rowed four miles, and, after cooling, took a salt water bath. Dinner came at one o'clock, consisting of roast beef and roast mutton, but no vegetables save the potatoe; and this was succeeded by a second rowing essay of five miles, until five o'clock. At supper, at seven P. M., they took oatmeal porridge, soft boiled eggs, and black tea. This training is said to develop the muscular system to extraordinary hardness and size, and adds no adipose matter to the man.

Silver Discoveries continue to be made within the limits of California. The Calaveras *Chronicle* is informed by a gentleman from West Point that the "Star of Blue Mountain" company have, within the past few days, struck the lead in their tunnel at Blue Mountain, in this county. This company have been at work for two years, and now their persevering industry and energy are rewarded by one of the finest silver leads ever discovered west of the Sierra. Mining in this district was never in a more prosperous state than at present; the custom mills are all crowded. Numerous rich leads have been discovered in this district during the summer. John Johnson, an old resident of the district, discovered a lead in August last, from which he took three thousand dollars in six weeks, and afterward sold his lead to a Mr. Barnes, for one thousand dollars. Charles Goldstein discovered a lead last week, in the same locality, for which he has refused ten thousand dollars.

The Tule Lands.—Mr. Bryant, a practical civil engineer, who has devoted much time and thought to the subject of irrigation and to the reclamation of the tule lands of the State, has just returned to Stockton from a fortnight's reconnoissance of the swamp lands between that city and Monte Diablo. His opinion is that if the yearly autumnal fires which sweep away all the tule could be prevented by stringent laws, in a few years, by the accumulation of vegetable mold, from the decay of such heavy bodies of tule, the lands that are now scarcely above tide level at the lowest stage of water, would be raised several feet, rendering a system of drainage perfectly practicable, and greatly improving the quality of the soil. He arrives at this conclusion from the fact that immediately on the river and slough banks, where the water and brambles protect the tule from the annual fires, the ground is several feet higher than further back, while the quality of the soil is infinitely better.

How to Select Flour.—First, look at the color; if it is white, with a slight yellowish or straw-colored tint, buy it. If it is very white, with a bluish cast, or with white specks in it, refuse it. Second, examine its adhesiveness; wet and knead a little of it between your fingers; if it works soft and sticky it is poor. Third, throw a little lump of dry flour against a dry, smooth, perpendicular surface; if it falls like powder it is bad. Fourth, squeeze some of the flour between your hands; if it retains the shape given by the pressure, that, too, is a good sign. Flour that will stand all these tests, it is safe to buy. These modes are given by old flour dealers, and they pertain to a matter that concerns everybody—the staff of life. *Genesee Farmer.*

Twenty-four years ago the United States produced only 6,000 bales of hops. The yield of 1863 was estimated at 65,000 bales, while that of 1864 is stated at 45,000 bales.

A lead mine, which promises to be very productive, has recently been discovered in Richmond, Me.

Mining and Scientific Press.

A. B. EWER,.....SENIOR EDITOR.

C. W. A SMITH. W. B. EWER. A. T. DEWEY.

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Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the credit system.

San Francisco:
Saturday Morning, Oct. 14, 1865.

MINING INVESTMENTS.

California is not the only portion of the mining world where there has been a fearful amount of waste organizations. A gentleman well acquainted with the Lake Superior copper region and whose experience enables him to speak reliably, says:

By an examination of the records of the country, and from other sources, I find that, since the year 1845 there have been organized no less than three hundred companies, for the purpose of working Lake Superior lands. Many of these have been here, as in other mining sections, out and out swindles, started to profit nobody but the originators, and this, too, not from any mining work, but from the revenue from the sale of the property and the fictitious value given to stock by sensation reports and willful lies. Of these three hundred concerns only about 19 per cent. have ever shipped ores, and but three, or 1 per cent., have declared and paid dividends. About twenty-six are at present in operation, and many of these are upheld not by the proceeds of the ore sold, but by direct calls on the stockholders, made by the levying of assessments. Of these numerous organizations some were formed to work on explored lands, and others—and the majority, too—on grounds into which the explorer's pick had never been struck, but on suppositious value only, because geologists had pronounced them 'copper lands,' with a wonderful oblivion that 'Lake Superior copper lands,' to use the words of a friend whose knowledge of the country is extensive and thorough, 'have no more value than agricultural lands in similar situations, until after they have been shown to contain copper.' Some have been organized to work on 160 acres of such land, some on 80, some even on 50, and not a few *on paper*."

Another Eastern writer, not at all discouraged by such statements as the above and similar ones which reach the Atlantic States from California, very forcibly advocates mining, not only for the baser metals, but for the precious metals as well, as a legitimate and profitable investment for business men. He says: The question is often asked "Can money be safely and profitably invested in gold and silver mines?" He unhesitatingly answers "yes—with as much certainty of return as one dollar can be paid for another, and with more certainty of large increase than in any other business." Not, however, he proceeds to say in substance, by buying anything and everything which may be called a gold, silver or copper bearing lode; nor by merely *supposing* you have a rich mine, and upon that supposition, with little or no evidence corroboratory of the supposed fact, investing thirty or forty thousand dollars in machinery, to find in the end—nothing that will pay. Such a course ignores common sense and common prudence, opens the door for various kinds of swindling on the part of designing men, and exerts a most disastrous influence upon all legitimate mining operations. The writer proceeds to recommend the observance of nothing but the simplest rules of business, as an almost sure guarantee of success. Know, says he, what you buy either from personal knowledge or by your experienced agent in whom you have confidence. Then withhold all expenditure for machinery until the claim is developed, and its working value ascertained, either before or after purchase. In this way companies can secure, by the aid of competent, practical and experienced miners, as good claims as have been found, anywhere, such as will yield a fair percentage, say five per cent. a month on a thousand feet to the company, at one thousand dollars per foot. An experienced miner, competent to test ores, can never be mistaken as to the value of a ledge from surface indications—the almost invariable rule being, "if rich on the surface, richer below."

THE BUNKER HILL COPPER MINE.—Active work is now in progress upon this mine, located in El Dorado county, with the view of its thorough development. The center or main shaft is now about seventy-five feet deep, being driven on the incline of the vein. The lode is some three feet in thickness, and is highly impregnated with green carbonate of copper. The hoisting is now done with a horse whim, which it is thought will be sufficient until a depth of 100 feet is reached. Drifts have been run each way, a distance of about seventy-five feet from the shaft. Upwards of forty tons of No. 1 ore have been raised, which it is claimed will assay from 17 to 18 per cent. of copper; also about the same quantity of second-class ore, which will average about eight per cent. A second shaft has been sunk 150 feet north, to a depth of forty-five feet. This will be connected with the main shaft at the depth of sixty-four feet. A third shaft has been put down to the same depth, about 300 feet south, which will also be connected with the other two. All the work is done in a substantial manner, and it is well timbered. It is confidently expected that the Bunker Hill will prove a valuable and model mine. It is freely opened to visitors who may wish, through motives of curiosity or profit, to examine it. The stock is owned mainly in San Francisco, and the work is done under the immediate supervision of Mr. R. Powning, the local superintendent, from whom we gather the above information with regard to the same. By reference to advertisement in another column, it will be observed that "able-bodied miners" are wanted at this mine.

MINING ACCIDENT—ANOTHER WARNING.—An accident of a somewhat rare occurrence took place a few days since at the Ophir-Mexican shaft. It appears that a cage, upon which two men were descending, caught upon the guides and stuck till about twenty feet of slack cable had run out, when the cage came loose and fell as far as the slack cable would let it, jarring the two men upon it considerably, and spraining the ankle of one of them. It was fortunate that the cage fell no farther than it did, as a very little increase of distance must have resulted fatally. The Virginia *Enterprise*, in noticing the accident, very properly remarks that "no cages should be allowed to be used except safety cages, in any shaft in the State. They cost but little more than the old style, and what is the cost any how, compared to human life and limb. There is a new and splendid safety cage now in use in another compartment of this same shaft, and there should be one in the place of this old one." It is certainly singular that the managers of any of our extensive mining works will still persist in neglecting to take ordinary precaution to protect the lives and limbs of their employees.

UTAH MINES.—Captain Geo. F. Price, A. A. Adjutant General on Gen. Conner's Staff, informs the Union *Vedette* that a New York company, with a cash capital of $100,000, has been organized for investment in the Utah mines.

THE WOOL PRODUCT—Thus far, this year, 9,832 bales of wool have been shipped from this State.

CHEAP RAILROADS FOR THE MINES.

There is said to be a narrow guage railroad, which has been in operation for over thirty years in one of the English mining districts, and which has been attended with great success. The road is but two feet guage, and up to last accounts four engines had run fifty-seven thousand miles over it without once starting from the rail. It has been held that a railroad of less than four feet eight inches guage would be unsafe, but experience shows that on a railroad less than half this guage there has been an entire exemption from accident. On the road described, a single train takes on an average fifty tons of goods and one hundred passengers. Following the English example, the people of Norway have fifty-four miles of the narrow guage railroad in operation, and so well pleased are they with the success of the experiment, that a number of other lines are in course of construction.

We refer to the success of these experiments for the reason that the system seems well adapted to the mountainous portions of this coast. The subject is already in agitation in Oregon, with a view to the development of the Columbia river trade. The important mineral discoveries in Montana and other portions upon and near the upper waters of the Columbia river, render it a matter of the first importance that some cheap mode of transportation should be devised to connect those regions with the coast. To accomplish this, a general introduction of small steamers on the upper rivers is suggested, to be connected with tide water by portages whenever necessary. The portages in some instances will be but a mile or two, in others a greater land carriage will be required. The cost of grading a road of this description is less by one-half than that of the ordinary guage of railroad, while the cost for ballast and much other material is also proportionately decreased.

The same arguments which are employed by our friends at the North, are even more applicable to the mining regions of our own State and Nevada. Roads of this description can be built, and made to pay as an investment, in districts which would not warrant the construction of roads of the ordinary width. Would it not be well to institute more particular inquiry in this direction, with the view of initiating a railroad system such as is here alluded to, with the view of connecting our more important mining sections with the proposed and already existing main lines of railroad throughout the Pacific coast? By such a system a large value may be given to many of our copper mines, which are now scarcely worth working on account of the high cost of transportation to and from the great lines of travel connected with the principal centres of business, and additional value given to others whose locality and richness even now renders their working a matter of profit. We throw out these suggestions, hoping they may meet the eye of some one who may either turn them to profitable account, or show some good reason why the project cannot be made practicable.

"WOOD FOR ANOTHER DAY."—Under the above heading the Humboldt *Register* urges the ranchmen in that vicinity to turn their attention to the culture of trees of rapid growth, for the purpose of furnishing fuel and timbers for mining purposes, when the scanty indigenous growth of the country shall have been exhausted. The suggestion is applicable to all sections of this State, and should receive more than a passing notice from those engaged in agricultural pursuits. The *Register* says:

There is nothing in nature to prevent people living in this county from securing a home growth of firewood and small timbers, fit for use in four years from this time. Teams coming out with groceries for the winter's use, can as well bring some sacks of peach pits, and some parcels of locusts seeds. These two varieties of trees grow rapidly, and will thrive well in this soil. We hope gardeners, and ranchmen, anyhow, will give the matter their attention. We ought all to have some care for times no further than four years off. Town lots can be beautified, and the aspect of the country greatly improved.

A PATENT WELL.

A patent well is among the new inventions recently brought into practical use at the East. The process is so extremely simple, and, according to report, so effectual that it would seem as though it must soon come into general use. An iron tube is driven straight into the ground, just as one would drive a stake, and on reaching a depth at which any well would find water, a pump is attached to the end of the tube remaining above ground, and up comes the water. Of course it is applicable only to soil free from rock and boulders; as it is in such soil only that an instrument of that kind could be driven to the required depth. The principle is obvious. By working the pump in that portion of the tube above ground a vacuum is formed in the sand and gravel between the pump valve and the bottom of the tube, upon which the water flows; proving, moreover, that the atmospheric pressure is as continuous down through the pores of the earth until it reaches the water-level, as it is upon the water-surface above ground. The principle is an old one, and has been practiced in many parts of Africa and Western Asia from time immemorial. The natives of those regions, where water is found near the surface, but where the sandy character will not allow of its standing on the surface, are in the habit of digging little pits until they reach a moist point, when a number of rushes are inserted and the sand carefully packed around them until the excavation is filled to the hight of the bunch of rushes, when the mouth is applied and by vigorous suction sufficient moisture is obtained to quench thirst—thus affording another illustration of the oft-repeated and generally true saying, that there's nothing new under the sun. We understand that some experiments with the tube have been made in the vicinity of Stockton, in this State, but with what success we are not informed.

THE ORIGINAL SHAFT.—It is said that ores from which have been taken fully seven millions of treasure have been raised from one shaft in the Ophir mine. This is, moreover, the identical shaft which was commenced upon the very spot where was made the first discovery of that vast source of wealth which has since given the Comstock vein a reputation excelled by no other throughout the earth. Since its discovery a little over half a decade has passed away; yet, in that time, more extensive and more difficult labor has been expended in exploring the depths of that vein, and extracting therefrom its vast riches, than have been required in building and beautifying some of the finest cities on the globe.

NATURAL YEAST POWDERS.—There is found in a lagoon, a short distance from La Paz, on the California side of the Colorado river, a somewhat curious mineral compound, said to be a crystalized combination of salt and soda, which possesses the useful property of raising bread as well as the manufactured article employed for that purpose. It is also claimed to be still more valuable, from the fact that, when mixed with lime, it makes an excellent flux for smelting the copper and silver ores, which are very abundant in that region.

A FOOLISH PRACTICE.—The system of publishing the income returns of private persons, as obtained from the internal revenue offices, as practiced in this country, is much ridiculed and denounced among business men in Europe. The journals there cannot see how our people will submit to such an impertinent prying into persons private affairs, by newspaper reporters. The London *Spectator* says that even the absolute government of India failed to enforce such a system—the merchants declaring that they would submit to imprisonment sooner than allow it.

COPPER SHIPMENTS.—There are now five vessels in this harbor taking in California copper ore for Atlantic ports and Swansea, England. These vessels are loading almost exclusively with ore—a significant indication of the rapidly increasing importance of our copper interests.

NO LOSS OF CONFIDENCE.

The fact that our city has stood so firmly under the greatest earthquake shock of which we have any record in this locality, is a matter of just congratulation to our citizens, and will do much to establish confidence in the future. Save the single casualty to the new building on Third street, which was yet green, and not properly secured, none of the frail high buildings throughout the city have suffered fatal damage. Not one of the numerous tall steeples or solid edifices constructed within the past three or four years, have been injured. All the houses fractured are inferior structures, or built upon made land, and consequently unstable foundations. People have gained instead of lost confidence in the capacity of thorough built brick houses to endure earthquake shocks, since witnessing the manner in which those in this city have withstood the last severe test.

The chimney, which it was reported "fell down" at the Lick House, was the mere toppling off of a few bricks from the top of a temporary flue which passed up outside of the wall in the center area. This chimney, frail and temporary as it was, did not fall. We called at the House a few days since and was kindly shown through the same by Mr. Alstrom; the only damage it sustained, beyond that spoken of, was a few slight cracks in the plastering in two or three of the rooms. We would take this occasion to allude to the Lick House as a perfect model of a structure to be built in a country subject to earthquake visitations. The house is only three stories high, and is so firmly bound and anchored with iron ties, passing from wall to wall, as to be absolutely proof against any serious damage from earthquakes, except such as might open the ground and swallow up all superincumbent structures. The Lick House was designed by an old pioneer who was well acquainted with the effects of earthquakes, and who built this house with especial reference to combining every possible security against such casualties.

GOLD MINING IN AUSTRALIA.—The Koh-i-Noor gold mining company, at Ballarat, Australia, took out $132,000 for the quarter ending with the 31st of March last. The cost of mining and crushing this rock, with current repairs of mill and mining machinery, was $18,300, leaving the sum of $114,000 as the profits of the plant and mine for three months, or $456,000 a year. The total amount of wages paid is $2,855 per week, averaging $11 74 per man. The head manager receives a salary of $19.36 per week; the head engineer, $18.15; amalgamators, $10.89 each; mining captains (underground) $12.70; ordinary underground miners, $10.89 each.

ANALYSIS OF OYSTER WATER.—M. Pagen, a French chemist, has analyzed the water of oysters, which is about equal in weight with the flesh. He states that it is not simply sea water, as it contains less salt and more organic matter. Agitated with ether it deposits a substance analagous to albumin, containing 8.75 per cent. of nitrogen. The liquid, when analyzed, gave 95·888 water, 3.022 salts, 0.560 nitrogenous matters, and 0.529 non-nitrogenous matters. M. Payen considers that the water of the oyster is important in its alimentation.

MAP OF AUSTIN.—We learn from the Reese River *Revielle*, that Gen. Rosecrans, who is now sojourning at Austin, and who is largely interested in mining property there, proposes to undertake the execution of a map of that district, on which will be shown the name of every ledge or claim thereon, with their exact boundaries, and the direction and degree of inclination of the foot wall to the horizon. This map will prove of great benefit to the holders of claims in the locality, and will be found particularly interesting to those in the Atlantic States who have invested in that locality.

BULLION SHIPMENT FROM AUSTIN.—The bullion shipment from Austin, Reese River, according to the *Revielle*, was $49,549 for the month of September.

THE SALE OF THE RAWHIDE RANCH MINE.

In common with others of our cotemporaries, we have given currency to the sale, to San Francisco parties, of the Rawhide Ranch mine for the sum of $75,000. We understand that a lawsuit is likely to grow out of this transaction, the facts in connection with which have been furnished us as follows, by Messrs. M. G. Elmore & Co., of this city:

It appears that in June, 1865, parties in this city took this mine, with the extension called the Keegan, and the ranch of some 400 acres, to the Eastern market for sale; taking deeds of the whole properties in name of D. W. Barney, President of Wells, Fargo & Co., with instructions from the owners to him to transfer the title to the order of Messrs. Elmore & Co., upon receiving in order, as mentioned above, the sums of $50,000, $10,000, and $5,000, in U. S. gold coin, the deeds being properly recorded at Sonora; and on the 16th of September the parties mentioned sold the properties in New York. In the meantime, the Rawhide mine proper had much improved, and excited the cupidity of certain other parties in this city, who offered the owners of the mine $75,000 for the same. On the 30th day of September the money was telegraphed from New York to Wells, Fargo & Co., to pay for the properties—$65,000—and tendered to the owners on that day; but refused by them.

On the 3d of October the owners of the Rawhide mine made the transfer to these San Francisco parties over the deed mentioned, and put them in possession. As might be expected, the transaction involves a lawsuit for possession, and which, we understand, will be immediately instituted by the New York parties.

The mine is computed by good judges to be worth at this time half a million of dollars.

Taking the above to be a correct statement of facts, such transactions are to be greatly regretted, as they bring discredit on the State at the East, and must hinder, to a certain extent, Eastern capitalists from investing here. Every mine of this description, sold there as no. A 1 mine, is a great help to us as a State.

Since the above was in type, we have been informed that Wells, Fargo & Co. have paid for the Keegan $10,000, and for the ranch $5,000, and taken possesssion of the same, leaving the Rawhide Ranch mine for litigation.

TERRIBLE STEAMBOAT EXPLOSION.

The steamer "Yosemite," running between this city and Sacramento, burst her starboard boiler just as she was backing out from the Rio Vista wharf, a few minutes past six o'clock on Thursday evening. The saloon cabin, upper forward works, and everything forward of the smoke stack, are a complete wreck. All the wounded who could be got off when the Chrysopolis passed up, were taken to Sacramento. The number of wounded taken up was thirty. Five were known to be killed. The accident is attributed to the keeling over of the boat, by the passengers rushing to one side as she was leaving the wharf. The Yosemite was one of the finest boats on the inland waters of the Pacific. She was a low pressure boat; and presents the first instance of the bursting of a low pressure boiler on this coast. The scene of the explosion is described as having been terrible in the extreme. The Navigation Company have sent up a steam-tug to bring her down if afloat. It was thought at the time the Chrysopolis passed up that there were quite a number of persons still buried beneath the *debris* of the wreck, some of whom may yet be got out alive. We shall have more full particulars by the down boat to-night.

RAISING SUNKEN VESSELS.—Mr. Joseph De Vinney, at the N. E. Corner of Washington and Drumm streets, has been appointed agent for Austin Z. Page's new patent method of raising sunken vessels.

THE *Oregonian* says that Marion Moore & Co., of Owyhee, have a mill on the way for that Territory. It arrived in Portland on the 21st ult., per steamer Orizaba.

Mining Summary.

CALIFORNIA.

The most extraordinary success which has attended quartz mining in Nevada county and some other sections of California, is evidently having an important influence in convincing business men and capitalists throughout the State, and in this city in particular, that the quartz mines on the western slope of the Sierras, present most favorable inducements for the employment of enterprise and capital. A very large proportion of the late mining sales, it will be noticed, have been made to San Francisco capitalists, who, as a general thing, are buying for permanent investment, satisfied that with proper management gold mining in California can be made to pay. Perhaps the fact, which is furthermore being especially brought to their notice, that the mercantile and agricultural interests of the State can only be sustained by a proper development of our mines, is also exerting an important influence in the same direction. These facts are among the most noticeable and encouraging signs of the times, and betoken a more prosperous and permanent future than has yet been realized in connection with the general industrial interests of the State.

SHASTA.—Whiskytown, in this county, which was thought to be nearly defunct, is now, according to the *Courier*, beginning to show signs of renewed improvement.

The Highland mill cleaned up again on the last of September $2,709, making, with their clean-up of the 11th ult., $6,108 for the month, running from four to eight hours per day, only, on account of the lack of water. With a full head of water they expect to take out $20,000 per month. The handsome sum of $20,000, it is said, was recently offered and refused for a fifth interest in this claim.

The Spring Creek mill company are now going down on their ledge, and prospecting their rock with a hand mortar, which indicates a pay of $50 per ton. They have about 100 tons out.

The Jollie mill are experiencing considerable trouble in working their rock, on account of the difficulty of extracting the gold from the sulphurets. They expect to be obliged to subject them to chemical treatment or to a fire process.

YUBA.—The *Appeal* learns that five shares of Jefferson stock have changed hands at $180 per share; and adds: "It is gratifying to see that this claim is more and more appreciated, but we are at a loss to understand why Pennsylvania stock is still so much neglected, it now being almost a certain fact that this rich pay streak is crossing the one claim as well as the other. Three hundred shares of Pennsylvania stock have been sold this week at less than $10 per share."

PLUMAS.—The late rains have raised the streams considerably in this county; so much so, that in some localities the miners were driven out of their claims. According to the Quincy *Union*, Messrs. Truck & Waterworth have purchased the Buckeye quartz mill, and will commence crushing quartz from their ledge in a short time.

A gold bearing quartz ledge has recently been discovered in Cherokee District, [Round Valley] near the "Kettle Ledge." Some of the rock was crushed in one of the mills at Round Valley, and paid $25 to the ton—*Union*.

NEVADA.—We have nothing of especial interest, this week, from Nevada, beyond the striking of several new ledges, which have not as yet been opened to a sufficient extent to develop their value. Reports, generally favorable, continue to come in from the Summit mines. The Enterprise company have made arrangements with Goss & Lamhard, the well known Sacramento foundrymen, for the erection of a first class mill on their claim. The company furnish the ore to parties putting up the mill, on their dump, and receive a certain share of the bullion extracted. One of King's patent desulphurizers has been shipped from from San Francisco for the mine, and the other machinery will at once be forwarded from Sacramento. It is intended to have the mill running in six weeks.

TUOLUMNE.—We extract the following mining items from the Sonora *Democrat*:

A lot of quartz from the Mount Vernon mine is now being crushed at one of the mountain mills, which is expected to yield largely. Some two tons of ore from the same lead, worked simply as a test, a month or so ago, paid over two hundred dollars per ton.

A gentleman from Big Oak Flat section says the quartz mines in that part of the county are looking up finely. In the vicinity of Deer Flat and the two Garotes several promising mines are being worked, and splendid rock is coming out.

CALAVERAS.—The San Andreas *Register* says William Irvine, of that place, has reopened his quartz mine at El Dorado with a favorable prospect of "pay." The Copperopolis *Courier* also speaks in high terms of the condition of quartz mining at Angels, where abandoned ledges are paying very well under the new process of extracting the gold. It is predicted that next year Angels will be one of the most prosperous and lively quartz mining towns in California.

WASHOE.

We devote a large space in our columns, today, to a very interesting letter from Mr. Bowles, editor of the Springfield (Mass.) *Republican*, descriptive of the mines about Virginia City and Reese River. This letter will be found well worthy of a perusal, and, in the main, correct. Our summary of news from these mines this week presents nothing of especial interest. We give such items as we have been able to glean from the local papers. The mills about Virginia City and Gold Hill (all that are in running order), appear to be quite busy, and at present there is no lack of ore for crushing.

The Yellow Jacket, under the efficient management of Mr. John B. Winters, says the *Enterprise*, is turning out large amounts of bullion. The first run of their new mill resulted in thirty-nine bars, valued at $74,000.

The Imperial Silver Mining Company have purchased of Messrs. Lindauer & Hirschman, the quartz mill and water-rights on the Carson river, at Dayton. This purchase was made on very favorable terms, and will not interfere with the regular dividends of the company, while it disposes of the litigation pending between the parties.

The Apple mine, according to the *Union*, is now yielding about seventy-five tons of ore per day of excellent quality. The claim is only ten feet in length, and lies between the Imperial and Alpha claims. Twenty-five tons of this ore, which will average $40 per ton, is being hoisted daily by means of a whim. Through the Imperial shaft twenty-five tons of still richer rock is daily taken. Twenty tons or more are also being daily run out through the Empire mine, from a depth of 600 feet to the new dump of the Apple mine on Main street.

The Bullion Company have made a very interesting, and which appears also to be a very valuable gold strike, in their lower drift, and about 150 feet from the south line of the Chollar claim. The gold appears in the hardest and whitest quartz found in the mine, though dark streaks of silver sulphurets are generally to be seen in the same rock, and not far from the gold. In some specimens the gold is so thickly sprinkled that it almost hides the quartz. As the company had not thought of looking for gold in their ore, the rock was thrown upon the dump, and the gold it contained passed unnoticed until the white clay, covering most of it, was washed off by the late rain, when a large number of specimens were picked up from the dump.

The Eclipse mill is receiving a general overhauling and renovation. The engine and boiler are being cleaned, repaired, and the entire machinery put in the most complete order. All will be completed and put in operation again on Saturday next (to-day).

The balance wheel connected with the big pump of the Bonner shaft bursted a few days since; a new one was put in its place the next day, and the pump set to work again as usual.

About ninety tons of ore are taken daily, at present, from the Ophir and Mexican, jointly. They have both a large quantity of water to contend with, which impedes their operations considerably.

REESE RIVER.

We have nothing of any especial interest this week from Reese River. According to the *Reville*, however, the mines are rapidly looking up. The William Bigler ledge is reported sold to New York capitalists at an enormous private sum. The ledge is said to be the largest in the district, being fifty feet thick.

The Silver Chamber, San Jose, and Mexican claims, all located on Union Hill, have been sold to parties in New York for $60,000.

SHOT IN.—Several workmen employed in a drift in the Latrobe tannel, at Virginia City, were completely shut in from their regular exit, a few days since, by a cave. Fortunately for the miners, however, they were enabled to find their way to the surface by another route, and came up through the shaft of the Central mine. The ground about the Comstock lead is so completely honeycombed with shafts and drifts that it is almost impossible for a person to get completely shut out from exit to the surface.

CALIFORNIA COAL OIL.—Two hundred barrels of coal oil were received on Tuesday last by Capt. Harrison, of this city, from San Buenaventura. The Lexington Well Co., near San Jose, shipped last week 120 gallons to New York, to show in that market the superior character of our California oil—they also shipped another hundred this week. Machinery for boring wells is constantly being sent out from this city in all directions.

SWEET AND SOUR.—Mr. Garvit had on exhibition at the county fair, apples which were sweet on one side and sour on the other. We do not remember to have ever heard of such a thing before. Garvit is a fruit wizard, and we should not be surprised to hear that he had produced something combining the qualities of a dozen or two different species of fruit.—*Mountain Democrat.*

Take a fruit bud from a sour apple tree and another from a sweet apple tree, cut them in halves, join the half of the sour to the half of sweet, and "bud" as usual. If carefully manipulated will it not grow; and if so what would be the character of the fruit?

TO MINE OWNERS.—A gentleman who has had much experience as a mining superintendent is desirous of securing a position as such in this State or Nevada. See advertisement in another column.

MAMMOTH FURNACE.—At the Dundyvan iron works, in Wales, an eliptical blast furnace has been erected, twenty by twelve feet in diameter and sixty feet high, which is said to give extraordinary results.

SPERM oil rose from $2 to $2 50 per gallon, in Boston on receipt of intelligence of the late piratical acts of the Shenaudoah in the Arctic Sea.

HUNTER'S
PREMIUM
CONCENTRATOR, AMALGAMATOR AND SEPARATOR,
Awarded a Silver Medal at the late Mechanics' Fair.

HUNTER'S CONCENTRATOR CAN BE SEEN IN OPERation daily at the Novelty Iron Works, Fremont street. Parties wishing to purchase Concentrators will find it to their advantage to examine the above machine before purchasing elsewhere, for the following reasons:

1st. It will work the sands from a 5-stamp battery, and save from 10 to 20 per cent. more sulphurets than any machine built on the Pacific coast.

2d. The Sulphurets are washed clean, containing less than ten per cent. of sand.

3d. The waste free gold and amalgam is amalgamated on the copper plates; no trace of ground mercury and scarcely a trace of metal passes off with the sand.

4th. Its simplicity is a sufficient recommendation for its general use as a Concentrator. The variation of speed in a Quartz Mill does not effect the working of the Machine. The same was demonstrated at the late Mechanics' Fair, when with the greatest regularity of speed the best of results were given.

5th. There is no clogging or stopping to clean out the sulphurets and sand; consequently no waste from any inattention on the part of the attendant.

6th. In exhibiting the working of the machine (it is not run empty), all classes of ores and tailings, from 50 pounds and upwards, are concentrated that parties may see fit to test the machine with.

Give it a trial, and satisfaction is guaranteed. All orders and any information required, address,

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Can now be procured, at the Patentee's price, by sending your orders, by mail or otherwise, to the

Office of the Mining and Scientific Press.

This article was more fully mentioned in the PRESS of April 15th, 1865. Since that time, however, Mr. Hendy has made a further improvement by attaching a rubber hose between the mouth-piece and the pipe, enabling the blower to change his position without disturbing the direction or constant accuracy of the current on the object upon which it is turned. The main portion of the blow-pipe is made with a joint, at which a valve is placed, which is opened when the operator blows and closed immediately when he ceases. By this arrangement the little bag or bladder is readily filled at a single breath, and with very little exertion. When so filled, a continuous current of air is forced from the nozzle of the pipe by the mere contractive force of the gutta percha. This force is uniform until the air is very nearly exhausted. The current may be easily varied or entirely cut off by gently pressing the fingers upon the neck of the bladder above the nipple to which it is attached.

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Traveling Agent.

MR. ROBERT LATTIMORE is now on a canvassing tour for the PRESS through Butte, Colusi, Tehama, Shasta, and Siskiyou counties, and we recommend him to the favorable consideration of our friends.

To Mining Companies.

A GENTLEMAN OF MUCH EXPERIENCE AS A MINing Superintendent, in England, Spain, and on the Pacific coast, and one intimately acquainted with every department of mining, and with nearly every class of mineral, is desirous of securing a position as Superintendent of some mining operation in California or Nevada. The applicant was for four years Superintendent of the New Almaden Quicksilver Mine, in this State. The best of reference given on application at this office.
San Francisco, Oct. 12, 1865. 15v11tf

CHARLES BERNARD,
MANUFACTURER AND DEALER IN
Family Chartres Coffee,
AND SPICES OF ALL KINDS,
No. 707 Sansome street, cor. Gold, bet. Jackson & Pacific.

First Premium Awarded
BY THE MECHANICS' INSTITUTE,
FOR BEST COFFEE AND SPICES.

The proprietor having introduced steam power in his Manufactory, has now increased facilities to supply the trade and the public in general. All articles from his establishment are guaranteed to be pure and unadulterated. The public are respectfully invited to call and convince themselves. Country orders promptly attended to.
15v11-3m

Dissolution of Partnership.

NOTICE IS HEREBY GIVEN, THAT THE PARTNERship heretofore existing between the undersigned, under the name and style of Fisk & Barber, and doing business as Grocers, is this day dissolved by mutual consent. The business will hereafter be conducted by Fisk & Brown, at the old place, 814 Howard street. The business of the old firm will be settled by Fisk & Brown.

J. M. FISK.
CHAS. J. BARBER.
San Francisco, Sept. 30, 1865. 15v11-4t

Worth's Telegraph Reel.

MESSRS. DEWEY & CO.—Dear Sirs: I see a notice in your paper in regard to my Paper Reel, signed Henry McOann. All I have to say is, if I had invented such a Reel as his, in 1862 or 1863, and had not improved it more than he has, I would keep my name to myself, and not let the public know who I was. His notice puts me in mind of Shakspeare's play of "Much Ado About Nothing." My Reel is entirely different from his, and is considered, by operators who are judges of such things, to be the best; and as for the cord, I could rig one to my Reel that would run a week, but it is not necessary.

For the best Paper Reels, address
I. W. WORTH, Sonoma,
15v11tf Or, WM. LUNDBERG, San Francisco.

LICK HOUSE,
Corner of Montgomery and Sutter streets,
SAN FRANCISCO.
S. ALSTROM AND G. S. JOHNSON, Prop'rs.

This elegant and commodious Hotel is situated on the principal promenade street of San Francisco. The Lick House is finished and furnished with a degree of beauty and excellence unsurpassed, combining all the modern applications and arrangements of a FIRST CLASS HOTEL, thus offering superior inducements to the traveling public. The proprietors assure their patrons that the Lick House shall not be excelled in any of its appointments, or in polite attendance or attention to all the comforts of its guests.
15v11

MINING BLANKS
For Sale
AT THE
OFFICE OF THE MINING AND SCIENTIFIC PRESS,
No. 505 Clay Street, corner of Sansome.

Blanks for Mining Companies, Secretaries, Shareholders and others, always on hand, or printed to order, at our office.

Among others are those of the following forms:

Shareholder's Proxy.

Know all men by these presents, that I, ... do hereby constitute and appoint ..... my attorney and agent, for me and in my name, to vote as my proxy, at a meeting of the ..... Mining Company, to be held ..... 186 , according to the number of votes that I should be entitled to cast were I there personally present.

In witness whereof I have this day hereunto set my hand and seal. .....[Seal]
Dated 186

Assessment Notice.

..... Company
....

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the ..th day of ....., 186 , an Assessment of .....per share was levied upon the Capital Stock of said Company, payable on the ..th day of .....186 , in United States gold and silver coin to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the ..th day of ....., 186 , will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on ....., the ..th day of ....., 186 , to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees.

..... Secretary.
Office.....

NOTICE.—There are delinquent, upon the following described Stock, on account of assessment levied on the ..th day of ..... 186 , the several amounts set opposite the names of the respective shareholders as follows, to wit:

Names.	No. Certificate.	No. Shares.	Amount.
Theophilus Thistle	23	14	$140 00
Peter Pipe	2	3	30 00

And in accordance with law and an order of the Board of Trustees, made on the ..th day of ...., 186 , so many shares of each parcel of said stock as may be necessary, will be sold at the.....
....., on ....., the ..th day of....., 186 , at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

..... Secretary.
Office.....

☞ Our advertisers are furnished with blank Assessment Sale notices free of charge. Orders from the interior promptly filled, by mail or express, as may be desired.

Rates of Advertising
— IN THE —
MINING AND SCIENTIFIC PRESS.

Mining Advertisements.

Notices of Meetings, per square, one week	$1 00
Notices of Meetings, per square, four weeks	2 50
Assessment Notices, of ordinary length, four weeks	5 00
Assessment Notices, of more than usual length, for each additional square	2 50
Delinquent Sales, per square, two weeks	2 00
Delinquent Sales, per square, three weeks	2 50
Postponements, per square, one week	1 00
Slips of Advertisements, printed for meetings or assessments, per hundred	1 00
Advertising blanks and circulars	Free

Miscellaneous Advertisements.

One week, per square	$1 00
One month, per square	2 50
One quarter (3 months), per square	7 50

Advertisements of great length, or of special character, inserted by contract on the most favorable terms.

☞ *Ten lines of solid advertising type constitutes a square.* ☜

Terms of Subscription.

THE MINING AND SCIENTIFIC PRESS is published every Saturday morning (containing sixteen pages—size of *Harper's Weekly*) at the following rates:

One copy, one year, by mail, in advance	$5 00
One copy, six months, by mail, in advance	3 00
One copy, one year, by express	6 50
One copy, six months, by express	3 50
Five copies, one year, by mail, in advance	20 00
By city carriers, per month	50
Single copies	12½
Monthly Series (or parts), containing 4 Nos	50
Monthly Series, containing 5 Nos	62½

THE CIRCULATION of the PRESS, already extensive, is rapidly increasing, and substantial men who can profit by widely disseminating information of their business amongst the most intelligent, influential and industrial classes of the Pacific States and Territories will find no more effectual or economical medium for advertising

DEWEY & CO., Proprietors,
Patent Agency and Job Printing Office, 505 Clay street, San Francisco. July 1 1865

Just and True Economy
IN MINING ADVERTISING.

The Proprietors of the MINING AND SCIENTIFIC PRESS would call the especial attention of MINING SECRETARIES, TRUSTEES and SHAREHOLDERS, to a few substantial reasons for the publication of Mining Notices in their journal—the first and only important newspaper of its class published upon this coast.

1st. The PRESS enjoys a large and permanent subscription list, having a more universal circulation among shareholders and men intimately connected with mining interests than any other publication.

2d. Under the present law the publication of all mining notices on Saturday, in a weekly journal, complies as fully with the statutes as a daily publication. It is generally found to be equally as convenient for secretaries, and decidedly preferable to stockholders who have not time to examine throughout every issue of a daily.

3d. Economy in mining should always be looked upon with favor, and the cost for weekly advertising in the PRESS is less by one HALF than the rates of any other journal in this city possessing a respectable circulation.

4th. The publishers of the PRESS, making the mining interest their especial care, take particular pains to assist in the avoidance of errors in advertising. Our print is also more clear and perfect than can be expected in such papers as are hurriedly issued from cylinder presses.

5th. Our "Shareholders' Directory" forms a complete Index of all mining notices published in San Francisco, by reference to which shareholders can at once see if their company is advertised, and determine whether the same is inserted in the PRESS or some other paper.

6th. Many copies of the PRESS are bound by prominent professional men, mechanics, secretaries, brokers, shareholders and others, as an important record for future reference, thereby rendering advertising, of every class, in its columns, of peculiar and permanent value.

7th. The benefit of having all mining notices consolidated in one newspaper, for the common convenience of shareholders, secretaries, and others who have occasion to refer to the same, is obvious. With this view we have established our rates at only fair, living prices, believing that a journal like ours, untrammeled by party, creed, or prejudice, is the only medium which can reasonably ask for such a consolidation of mining patronage.

8th. Advertisements in the columns of the PRESS, after their first insertion, are arranged alphabetically. Our present list is equalled only in one instance by that of any other journal. Shareholders, as well as strangers, naturally turn their attention to a mining journal for information concerning the mines and mining matters.

LAST, BUT NOT LEAST.—Our sheet (having been recently enlarged to the size of Harpers' Weekly) is now only equalled in its dimensions by one mining paper in existence—the *London Mining Journal*. Published in this, the greatest mining field of the world, we desire that the PRESS shall have no superior. We can only realize our cherished object of building up a reliable advocate of the science and business of mining, which will be of just honor and profit to our community, by experience and liberal patronage. The bestowal of such favors only as naturally belong to us, and which it is clearly for the benefit of the mining fraternity to extend, is all that is requisite, and we are confident we shall receive it

DEWEY & CO.,
4v11 Office Mining and Scientific Press.

QUARTZ OPERATOR'S
HAND BOOK.

A Book for Every Intelligent Prospector, Shareholder, Miner and Machinist.

ZENAS WHEELER AND P. M. RANDALL,
Authors and Publishers.
BOUND IN CLOTH—144 PAGES, DUODECIMO.

THE QUARTZ OPERATOR'S HAND BOOK is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

The work also contains an original and highly interesting discussion of the crushing and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Belshaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on pa 415 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865.

Sold by booksellers generally. Price by mail, postage paid, $1.25. Address "Wheeler & Randall, at the Mining and Scientific Press Office, San Francisco." 2v11

New Volume
— OF THE —
Mining and Scientific Press

Issued every Saturday. Each number contains 16 pages and 64 columns (size of Harper's Weekly).

PUBLISHED BY
DEWEY & CO.,
Patent Agents, Publishers and Job Print
505 Clay Street, San Francisco.

THE ELEVENTH VOLUME

Of the MINING AND SCIENTIFIC PRESS commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this journal may be anticipated by its numerous and rapidly increasing readers.

We shall continue to devote a large space in our columns to the various and best methods of treating ores and saving gold and other precious metals in every form, furnishing valuable hints to millmen, prospectors, oil-workers and miners generally, not to be found in any other publication.

New machinery, latest inventions and discoveries, and all matters pertaining to the mechanical, manufacturing and industrial resources of the Pacific States, will receive careful attention.

Stock market reports will be published as received from the official records. Our carefully compiled "Mining Shareholders' Directory" will prove a faithful monitor to parties holding stock, and a desirable record for reference to brokers.

Friends pleased with our efforts in the publication of the PRESS can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and News-dealers, acting as our agents, will receive liberal commissions.

☞ BOUND VOLUMES FOR SALE. ☜

SUBSCRIPTION IN ADVANCE.

One Year, (two volumes)	$5.00
Six Months, (one volume)	3.00

FOR ADVERTISING

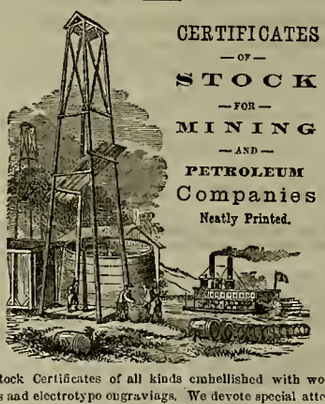
Our terms are very reasonable. MINING COMPANIES are especially favored by our rates, and careful attention is given to the legal publication of MINING NOTICES.

OFFICE.—No. 505 Clay street, corner of Sansome.

DEWEY & CO., Publishers.

C. W. M. SMITH .....W. H. EWER ....A. T. DEWEY

Mining and Scientific Press
JOB PRINTING OFFICE,
No. 505 Clay street, corner of Sansome.



CERTIFICATES
— OF —
STOCK
— FOR —
MINING
— AND —
PETROLEUM
Companies
Neatly Printed.

Stock Certificates of all kinds embellished with wood cuts and electrotype engravings. We devote special attention to the execution of all kinds of work required by Mining Companies, Machinists and Manufacturers.

W. M. HARRISON
417 CLAY ST.
PRINTER S.F. ENGRAVER &
ELECTROTYPER.
PRINTER'S WAREHOUSE

Ten Able-Bodied Copper Miners
WANTED,
At the Bunker Hill Mine,

To work for wages (three dollars per day), or on contract.
10v11-tf RICHARD POWNING, Superintendent.

OIL SMELLERS.—A correspondent visiting the oil regions has come across this class of "indescribables." He tries to picture them and does it in this strain: "Did you ever see an 'oil smeller,' and can you tell to which of the three kingdoms it belongs? And would you think, from its name, that it has a soul to be saved? An oil smeller is a fellow who goes about, like the old water finders, with a fork of witch-hazel in hand, that obligingly points to six o'clock whenever there is oil beneath it. There are, perhaps, a dozen of these greasy wizards perambulating Venango county, and locating wells after this fashion, in consid-e-rn-tion of a ten dollar bill; and what is stranger, there are plenty of people with the ten dollar bill. There is a vein of superstition running through all human nature, whether in Salem or Bedlam or out of them, and good old Dr. Mather was only a little honester than most men, and confessed it."—*Pittsburg Oil News.*

Metallurgy.

EUROPEAN METALLURGICAL WORKS,

—AND—

Practical Mining School,

Bryant Street, Between Third and Fourth,

SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. KIMBALL, J. R. MURPHY.
10v10

BOALT & STETEFELDT,

Metallurgists and Mining Engineers

AUSTIN, NEVADA.

Western Branch of ADELBERG & RAYMOND, No. 90 Broadway, New York. 11v11

NOTICE

—TO—

COPPER MINING COMPANIES.

The undersigned offer their services for the construction and working of

Furnaces of the most approved form

And on the most economical principle,

For the reduction of COPPER ORES. For further information apply at the office of the CALIFORNIA COPPER SMELTING COMPANY, No. 510 Clay street (office No. 4), San Francisco.
5v11 tf **R. EMERSON & CO.**

FIRST PREMIUM

FOR REFINING COAL OIL,

At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,
17v10 643 Third Street, bet. Brannan and Townsend.

NEW DISCOVERY

FOR DESULPHURIZING AND DECOMPOSING

METALLIFEROUS ORES,

—SUCH AS—

Auriferous Sulphurets, Arsenites or Antimonial Telluric, Gold and Silver Ores.

By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by

DANIEL ROSS,

Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me.

EDWARD ARNOLD,
Inventor and Patentee.

Monitor, Alpine county, Cal.

W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11

ASSAYERS

Desirous to commence an ASSAY OFFICE in the mines may buy, at a very low figure, in a prosperous mining county, a complete set of Assaying Apparatus, Scales, Chemicals, and everything necessary to carry on said business. Apply to Lock Box No. 782, Postoffice, San Francisco, stating name and where an interview may be had. 17v10

OIL WELL BORING.

J. SEVENOAKS,

Contractor

For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1229 San Francisco. 2v11

Professional Cards.

Our Patent Agency.

The PATENT AGENCY of the MINING AND SCIENTIFIC PRESS has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of LETTERS PATENT from the United States and foreign Governments cannot be over-rated, and the Proprietors of the PRESS, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

WM. L. DUNCAN,

Stock Broker,

Member of the San Francisco Stock and Exchange Board,

No. 605 Montgomery Street, San Francisco.

Mining Shares and Legal Tender Notes bought and sold strictly on commission. Liberal cash advances made on stocks consigned for sale. 1v11-3m

S. C. BUGBEE & SON,

ARCHITECTS.

DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.

74 and 75 Montgomery Block

SAN FRANCISCO. 25v10-3m

FREDERICK MANSELL.

Mechanical & Architectural Draughtsman,

No. 422 California street, corner of Leidsdorff.

Drawings of MODELS made for parties applying for patents at Washington or London. mar23-tf.

JAMES M. TAYLOR,

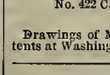
Attorney and Counsellor at Law,

COURT COMMISSIONER, appointed by the Fourth District Court, COMMISSIONER OF DEEDS for Nevada and Massachusetts,

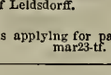
Court Block, San Francisco.

Entrances opposite City Hall, Merchant street, and 636 Clay street.
14v1tf

DR. H. AUSTIN,



DENTIST,

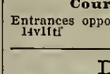


No. 634 Washington Street,

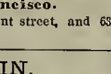
Between Montgomery and Kearny Streets

[OVER SAN FRANCISCO BATHS]

SAN FRANCISCO. 20v10-qy



TEETH



☞ **Extracting Without Pain.** ☜

Drs. Whitcomb & Dyer,

DENTISTS,

[Successors to W. H. Irwin.]

No. 205 Third Street, near Howard,

v9 SAN FRANCISCO.

N. LOMBARD INGOLS,

Accountant and General Factor,

No. 32 Montgomery Block.

Address, Box 2128, Postoffice, San Francisco. 9v10

OLNEY & CO.,

Real Estate, Stock, and General

Auction & Commission House.

No. 626 Montgomery Street, Montgomery Block.

JAMES N. OLNEY—Auctioneer.

SECRETARIES of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

AUGUST KUNAST,

Stock Broker,

Member of the

San Francisco Stock and Exchange Board,

Buys and Sells Stocks, Bonds, Etc.

Office, No. 540 Washington Street, San Francisco. 2v10

G. F. DEETKEN,

Mining Engineer and Metallurgist,

Address - - - - - San Francisco. 25v9

W. O. ANDREWS,

NOTARY PUBLIC,

—AND—

Commissioner of Deeds for the State of Nevada and the Territory of Arizona,

AND FOR THE

STATES OF MASSACHUSETTS AND MAINE.

Office, Montgomery Block, 626 Montgomery Street,
10v8-2m SAN FRANCISCO.

GEORGE H. BAKER,

Lithographer & Engraver,

No. 522 Montgomery St., San Francisco.

MINING STOCK CERTIFICATES LITHOGRAPHED IN MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

SHERMAN DAY,

Mining Engineer,

No. 56 Montgomery Block, San Francisco,

Will examine, survey and report upon mines, and consult and advise concerning investments in mining property, or the machinery management and expenditures of mines.
22q*

Trades and Manufactures.

Pacific Glass Works

Are now prepared to execute orders for the manufacture of

All Kinds of Bottles to Order.

Office, No. 621 Clay street, San Francisco. 3v11-3m

EDWARD BOSQUI & CO.,

PRINTERS,

Book-Binders, Paper-Rulers,

And Blank Book Manufacturers.

No. 517 Clay street, between Clay and Sansome streets, SAN FRANCISCO. 24v10

BUSWELL & CO.,

Book-Binders, Paper-Rulers,

And Blank-Book Manufacturers.

No. 509 Clay street and 508 Commercial street, between Montgomery and Sansome, San Francisco. 4v8-tf

JOHN DANIEL,

(SUCCESSOR TO O. GORI)

MARBLE WORKS,

No. 408 Pine st. bet. Montgomery and Kearny, San Francisco.

Mantels, Monuments, Tombs, Plumbers' Slabs, Etc., On hand and Manufactured to order.

☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

NATHANIEL GRAY,

General Furnishing Undertaker,

641 Sacramento St., corner of Webb, San Francisco.

Barstow's Metallic Burial Caskets and Cases.
1tf

THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
No. 418 Market street, San Francisco. n7-tf

Palmer's Patent

ARTIFICIAL LEG,

Manufactured in Philadelphia, Penn.

JARVIS JEWETT, AGENT.

629 Washington Street, San Francisco, Cal. 10v8-1m

JAMES MACKEN,

COPPERSMITH,

No. 226 Fremont st., bet. Howard & Folsom.

All kinds of COPPER WORK done to order in the best manner. Particular attention paid to Steamboat, Sugar House and Distillery work.

Repairing promptly and neatly attended to.
13v11

Fire, Hydraulic and Suction Hose

and Leather Belting.

M. M. COOK & SON,

801 Battery Street, San Francisco,

Are now manufacturing as above, Fire, Hydraulic and Suction Hose, and Leather Belting, of any dimension and in any quantity which may be desired. Fire Hose and Belting constantly on hand or manufactured to order. Also Saddles and Horse Collars.

The subscribers would respectfully ask purchasers to call and examine their stock—also testimonials of the efficiency of their work from such as have used their hose both for fire and mining purposes. A diploma was awarded to us last year, by the Mechanics' Institute, of this city, and a silver medal this year. 12v11-1y

NEW YORK PRICES.

WATCH REPAIRING AT NEW YORK PRICES.

C. E. COLLINS,

No. 602 Montgomery street, San Francisco.

EXCLUSIVE AGENT

—FOR THE—

AMERICAN WATCH FACTORY.

A large assortment of these

Superior Watches,

In Gold and Silver Cases,

Constantly on hand, and sold at Factory prices. Also,

ENGLISH AND SWISS WATCHES,

Imported directly from the Manufacturers.

The American Company are now making

VERY FINE WATCHES FOR LADIES.

☞ A large assortment of Gold Chains and Jewelry. 25v10-6m

NEW YORK PRICES.

WATCH REPAIRING AT NEW YORK PRICES.

I. M. WENTWORTH & CO.,

Manufacturers and Jobbers of Ladies, Misses and Children's

Channel Nailed Boots and Shoes,

Of all descriptions. All Goods warranted as represented. No. 210 Pine street, up stairs.

WANTED—15 or 20 Shoe Bottomers, on Ladies' work. Constant employment will be given to first-class workmen, and the highest wages paid. 13v11

Machinists and Foundries.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.

UNION IRON WORKS!

Corner First and Mission streets,

SAN FRANCISCO.

ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Quartz Mills, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.

Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter. Also, Scott and Eckart's Adjustable Cut-off Regulator—best in use; W. R. Eckart's Balance Valve for Stationary Engines; Woodward's Patent Steam Pump and Fire Engine.

Boilers.

Locomotive, Flue, Tubular, Upright, Cylinder and Cornish, and every variety of Boiler Work. All sizes of tubes and pipes for pumps.

Amalgamating Machinery.

Wheeler & Randall's improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Beidler's pan, Veatch's tubs, Prater's concentrators, Wahlee's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

BLAKE'S PATENT QUARTZ CRUSHERS, of all sizes.

Oil Boring Tools and Machinery,

Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.

We have the facilities for working gold and silver quartz and other ores, to test their value, by the hundred weight or ton.

Russia Iron Screens, of all degrees of fineness and of all qualities of iron.

All work done in the best manner at the lowest cash prices. 21v10 **H. J. BOOTH & CO.**

Miners' Foundry

—AND—

MACHINE WORKS,

First St., between Howard and Folsom Streets,

SAN FRANCISCO.

EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as

Steam Engines and Boilers, Flour, Saw and Quartz Mills,

Machinery, Mining Pumps, Amalgamators,

Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.

All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.

HOWLAND, ANGEL & KING.

Vulcan Iron Works Company

[ESTABLISHED 1850.]

First, Natoma and Fremont Streets.

IRON FOUNDERS,

Steam Engine and Locomotive

BUILDERS,

Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as

Mining, Steamship, and Steamboat Machinery,

Railroad Machinery, Locomotives, Car Trucks, Car Wheels, Housings and Irons; and Flouring Mills, Quartz Mills, Sugar Mills, Saw Mills,

Manufacturing Machinery of Every Kind.

Sole Manufacturers of

HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR;
BEATTY'S AMALGAMATOR;
HESSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;
BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;
FAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;
JONVAL'S IMPROVED WATER WHEEL;
LEFFEL'S AMERICAN DOUBLE TURBINE WATER WHEELS.
STEVEN'S PISTON PACKING RINGS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.

Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

JOHN P. GALLAGHER. JOSEPH WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to. Prices moderate. ☜

No. 125 First street, opposite Minna, next door to Pacific Foundry. 3tf

[Removed from Oregon street, between Front and Davis.]

SMELTING COPPER ORES.—Messrs. Peter Spence and H. Davis of England, have made a discovery in copper smelting which consists in using, as a flux, the spent shale of the alum manufacture, being the residuum of the shale of the coal measures after it has been acted upon by sulphuric acid for the production of alum. The quantity of such spent shale necessary for each charge of ore will vary with the character of the ore, and, in practice, is easily ascertained by the workman, who will discover that, when a sufficient quantity has been added, the flux or slag will part easily from the regulus or metal, and enable him to skim off and draw out the slag, without the regulus or metal clinging to it. In practice it is found that, by using spent shale for a flux, a slag more than ordinarily free from copper, or, as it is termed, a clean slag, is obtained, which is a matter of great importance in copper smelting, as when the slag is not clean there is a great loss of copper in consequence. The patentees claim the use of spent shale as a flux in copper smelting.

AN IRON MINING DISTRICT.—The Downieville *Messenger* says the eastern portion of the county has been laid off as an iron mining district, under the name of the "San Saba Iron Mining District," and at a meeting of the citizens, recently held in Sierra City, laws were adopted for the future government of the mines. One company has already organized under the same, and are in negotiation with capitalists for the prosecution of the work.

SANTA CLARA COLLEGE, S. J.,

SANTA CLARA, CAL.

Conducted by the Fathers of the Society of Jesus.

The FIFTEENTH ANNUAL SESSION of this College will commence on

Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $350

For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco.

3v11 REV. A. MASNATA, S. J., President.

CALL STABLE.

N. GISHWILLER

Would respectfully inform the public that he has opened a large and well-arranged LIVERY STABLE,

On B street, Summit City, Cal.,

(two doors below the Lake House), where good Saddle and Buggy Horses can be had at all times. Our charges will be reasonable, and we hope, by prompt attention, to merit a share of the public patronage. 10v11-3m

LEHIGH COAL.

200 Tons Large Lump Lehigh Coal

Now on Hand.

I am also in constant receipt of

LEHIGH COAL,

And will be able to supply it always

At the Lowest Market Price.

JAMES R. DOYLE,

20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

A CHANCE FOR CAPITALISTS.

The Hinckley Quartz Lead,

Located in Jackson, Amador county, California, containing four hundred feet, is FOR SALE. It has thus far proved to be the richest claim in the county. For further information, enquire on the premises.

Jackson, Sept. 4th, 1865. T. HINCKLEY.

For any further information concerning myself, I will refer (without permission) to A. Hayward, Esq.; Horace Kellum, Esq.; C. W. Rand, U. S. Marshal; Bigelow Bros., Insurance Agents; M. Abrams, Esq. 10v11-4w

LEWIS COFFEY. J. S. RISDON

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

MITCHELL'S

COMBINED

FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with GALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.

San Francisco, Aug. 22d, 1865. 10v11-3m

THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting machinery of the most approved construction. Flour, Saw and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully solicited.

GODDARD & COMPANY.

BY AUTHORITY OF THE STATE OF CALIFORNIA

Having fully complied with the law by a deposit of $525,000 bonds of the State of California and the United States

BIGELOW & BROTHER,

GENERAL INSURANCE AGENTS,

FIRE, MARINE AND LIFE INSURANCE,

Capital Represented.....$15,000,000.

California Deposit..... $525,000

Office Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.

LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets	$1,500,000
HOME INSURANCE COMPANY, of New York, Assets	3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets	2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets	1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets	600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets	600,000
CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.	

Policies issued on Freights, Cargoes, and Treasure, from and to All Parts of the World. Voyage War Risks taken on Hulls.

Fire Insurance Policies issued on all kinds of Insurable Property in the Country or City. Losses Payable in Gold Coin of the United States.

We represent the Oldest and Best Companies in the United States, and offer as favorable terms as any agency on this Coast.

Losses paid immediately on adjustment.

BIGELOW & BROTHER,

17-6m General Agents.

UNION IRON WORKS,

Sacramento.

WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Dunbar's Patent Self-Adjusting STEAM PISTON PACKING, for new and old Cylinders, manufactured to order.

Front Street, between N and O streets,

14v11 SACRAMENTO CITY.

GEORGE T. PRACY,

MACHINE WORKS,

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

SAN FRANCISCO.

STEAM ENGINE, FLOUR AND SAW MILL

And Quartz Machinery, Printing Presses,

AND

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

☞ Special attention paid to Repairing.☜ qy-3

PALMER, KNOX & CO.,

Golden State Iron Works,

Nos. 19, 21, 23 and 25 First Street,

SAN FRANCISCO.

MANUFACTURE ALL KINDS OF

MACHINERY,

STEAM ENGINES AND QUARTZ MILLS

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S

NEW GRINDER AND AMALGAMATOR,

HEPBURN & PETERSON'S

AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-1f

FULTON

Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

SAN FRANCISCO

Foundry and Machine Works,

N. E. Cor. Fremont and Mission streets,

Manufacturers of

Marine and Stationery Engines,

Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.

—ALSO—

Wine, Cider, Cotton and Tobacco Presses of the latest Improved Patterns.

Brodie's Improved Patent WIND BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Baux & Ould's Amalgamator and Separator; W. W. Tupper's Patent Sectional Grate Bar; Coal Oil Well Boring Machinery complete, on hand.

STEAM ENGINES AND BOILERS,

Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.

MACHINERY, OF ALL DESCRIPTIONS,

Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates.

6v11-1y DEVOE, DINSMORE & CO.

Novelty Iron Works,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY*. Send for a Circular.

E. T. STEEN.

39 and 41 Fremont, and 42 and 44 Beale Sts.

SAN FRANCISCO 21v9tfq

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, San Francisco. qy29-t

JOHN LOCHHEAD'S

STEAM ENGINE WORKS,

Beale Street, near Mission Street,

SAN FRANCISCO.

Steam Engines of every description built to order—Marine Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer.

OUR NEW YORK AGENCY.

Mr. Geo. M. Newton is our authorized agent in New York City, and will receive advertisements and subscriptions for the Mining and Scientific Press at regular rates. Sample copies of our weekly and monthly issues can be procured by calling upon him, at the office of the "Stockholder," **No. 72 William street.**

PHILADELPHIA AGENCY,

Parties wishing to subscribe or advertise in the Mining and Scientific Press can be accommodated by calling upon our Agent, Mr. Turner Hamilton, at the Assembly Building, 106 South Tenth street, Philadelphia, Pa., where sample copies of our publications can always be found.

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Astor Gold and Silver Mining Company, Gold Hill Mining District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of October, 1865, an assessment of one dollar and fifty cents ($1.50) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, No. 436 Jackson street, San Francisco, or to E. A. Hyne, Superintendent, Gold Hill.

Any stock upon which said assessment shall remain unpaid on Saturday, the 11th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 27th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco. oc14

Bella Vista Gold and Silver Mining Company, Cacachilas District, Lower California.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 9th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
C C Perkins	161	23	6 90
Angus Cameron 121, 122. 123, 124,	118, 119, 120 167	85	19 50
T W Mulford 89, 90, 91, 92,	93 94, 180	75	22 50
T R Horton 22, 23, 24, 25, 28,	27 28, 153, 179	100	30 00
B C Howard	130	18	5 40
A C Nichols	184	145	43 50
S E Dutton	194	24	7 20
Henry Dutton	192	40	12 00
Henry Dutton	193	30	9 00
Kate Kelly	98	18	5 40
James Sheny	hal of 155	1	30
G S Johnson	163	22	8 50
John Dunn	188	10	3 00
J R Knenzi	170	10	3 00

And in accordance with law, and an order of the Board of Trustees, made on the 9th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on the 28th day of October, 1865, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. FULLER, Secretary.

Office, 325 Clay street, San Francisco, Cal. oc14

Colorado Mill and Mining Company. The Annual Meeting of the Stockholders of the above Company, for the election of a Board of Trustees for the ensuing year, will be held on Monday, November 13th, 1865, at 7 o'clock P. M., at the office of the Company, 509 Clay street, San Francisco, California.

G. M BURNHAM, Secretary.

San Francisco, Oct. 12, 1865. oc14

Notice.—The Annual Meeting of the Stockholders of the Caledonia Tunnel and Mining Company, for the election of Trustees for the ensuing year, will be held at the office of the Secretary, on Monday, November 13th, at 3 o'clock P. M.

J. M. BUFFINGTON, Secretary.

San Francisco, Oct. 13, 1865. oc14

Comet Petroleum Company, Humboldt County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 13th day of October, 1865, an assessment of thirty (30) cents per share was levied upon the capital stock of said Company, payable on the 14th day of October, 1865, in United States gold and silver coin, to the Secretary, at the office of said Company, in San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 4th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

L. CROSBY, Secretary.

Office, No. 36 Exchange Building, N. W. corner Washington and Montgomery streets. oc14

Edward Everett Silver Mining Company, Cortez Mining District, Lander county, Nevada.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 15th day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
J A Veatch	not issued	200	40 00
B B Bee	not issued	155	31 00
J S Currie	not issued	200	40 00
M J Newmark	not issued	200	40 00
Wm. Rowland	not issued	20	4 00

And in accordance with law, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on the 28th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. H. BURTON, Secretary.

Office, Room No. 4, N. W. Corner Clay and Front streets, San Francisco, Cal. oc14

Good Hope Gold and Silver Mining Company, Alpine District, Alpine County, California.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 11th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
D A Hopkins	108	30	$15 00
H Morris	114	50	25 00
H Morris	not issued	10	5 00
E A Dowd	25	10	5 00
O F Thornton	29	10	5 00
O F Thornton	85	15	7 50
I Blum	70	10	5 00
Wangenheim & Blum	300	5	2 50
L Weil	81	25	12 50
B C Brown	343	20	10 00
S Newman	334	5	2 50
S Newman	not issued	10	5 00
Geo Lowe	122	10	5 00
J W Harvey	282	10	5 00
Peter Boyle	124	10	5 00
B F Pettis	129	10	5 00
S Maginess	130	10	5 00
J L Tibbits	131	8	4 00
W A Johnson	185	10	5 00
W A Johnson	278	5	2 50
A H Bates	138	10	5 00
J Brady	141	10	5 00
Chas Stackpole	164	10	5 00
E Ganoung	171	5	2 50
R W Green	159	50	25 00
R W Green	283	10	5 00
R W Green	not issued	45	22 50
H Severance	174	10	5 00
H Severance	272	5	2 50
E D Black	176	5	2 50
E D Black	191	5	2 50
Mary Ready	351	10	5 00
J Weis & Co	178	5	2 50
J Weis & Co	204	10	5 00
J Weis & Co	186	5	2 50
J Seely	179	25	12 50
J Seely	306	25	12 50
J Seely	328	5	2 50
J Seely	not issued	50	25 00
D C Mitchell	181	5	2 50
G W Mauk	182	5	2 50
P Felsenthal	275	15	7 50
A Kersehner & Co	185	5	2 50
J Evans	187	15	7 50
J Tournell	188	10	5 00
J B Tournell	194	5	2 50
Colin Tournell	189	5	2 50
A Tournell	195	5	2 50
A Tournell	217	5	2 50
Chas Wolfer & Co	192	15	7 50
N Frankville	196	5	2 50
Chas Beeler	197	5	2 50
M T Groenveld	198	5	2 50
L Guilaum	199	10	5 00
L Gullaum	235	5	2 50
J Q Smith	200	5	2 50
L J Simmons	207	28	14 00
A L Marsden	354	5	2 50
H J Ward	216	10	5 00
H J Ward	234	10	5 00
B F Coon	218	5	2 50
J Uncapher	219	5	2 50
Miles Tobey	220	5	2 50
F Schetter	230	100	50 00
F Schetter	241	25	12 50
F Schetter	265	25	12 50
J T Sproul	232	5	2 50
J C Bidamon	not issued	17½	8 75
M Benz	246	5	2 50
M Benz	252	5	2 50
J M Johnson	249	10	5 00
J Dewar	248	5	2 50
W C Jewell	251	5	2 50
R Alderson	254	5	2 50
R Alderson	302	5	2 50
D Collier	286	25	12 50
D Collier	257	10	5 00
D Collier	568	10	5 00
D Collier	269	10	5 00
C Coleman	273	10	5 00
J H Haynes	284	15	7 50
J H Haynes	285	10	5 00
J Tuite	280	10	5 00
J Tuite	281	9	4 50
J Tuite	282	5	2 50
W H French	291	5	2 50
Tho Alderson	303	5	2 50
C Andrews	304	5	2 50
J Conkrite	305	5	2 50
W Prusser	308	5	2 50
J R Palmer	309	5	2 50
A O'Connell	311	5	2 50
Geo Herman	314	5	2 50
C Wagley	316	10	5 00
H J Olds	330	5	2 50
James Hogle	317	10	5 00
H Weinrich	329	5	2 50
J H France	331	8	4 00
A M Crow	332	10	5 00
R M Folger	336	5	2 50
R M Folger	352	10	5 00
A Windmiller	338	3	1 50
A C Folger	334	10	5 00
A C Folger	348	5	2 50
I Christin & Co	345	10	5 00
H R Townsend	350	20	10 00

And in accordance with law and an order of the Board of Trustees, made on the 11th day of September, 1855, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Company, 526 Montgomery street, San Francisco, on the 28th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

PRESTON MORRIS, Secretary.

Office, 526 Montgomery street, San Francisco. oc14

Hanscom Copper Mining Company, Low Divide District, Del Norte county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of October, 1865, an assessment of fifteen cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, 609 Market street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 11th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 27th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

S. S. SWEET, Secretary.

Office, 609 Market street, San Francisco, Cal. oc14

A Business Compliment.

Petaluma, Oct. 4, 1865.

Messrs. Dewey & Co.—Gentlemen: Your note informing me that my patent for Crushing and Baling Machine is ordered to issue is at hand. Please accept my thanks for the prompt and business-like manner with which the case has been conducted, and inclosed find twenty dollars for balance Government fees. Respectfully, etc.

JACOB PRICE.

Jewett Gold and Silver Mining Company, Gold Hill District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 11th day of October, 1865, an assessment of one ($1) dollar per share was levied upon the assessable capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Friday, the 10th day of November, 1865, will be advertised as delinquent, and unless payment shall be made before, will be sold on the 25th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. M. BURNHAM, Secretary pro tem.

Office, 509 Clay street. oc14

Knox Gold and Silver Mining Company, Silver Mountain District, Alpine County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of October, 1865, an assessment of forty (40) cents per share was levied upon the capital stock of said Company, payable on the said 7th day of October, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, No. 2 Odd Fellows' Hall, in the City and County of San Francisco.

Any stock upon which said assessment shall remain unpaid on the 11th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

SAMUEL P. HOWES, Secretary.

Office, No. 2 Odd Fellows' Hall, San Francisco, Cal. oc14

Oroville Gold and Silver Mining Company, Oroville, Butte County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of October, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 434 California street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 13th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 2d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

oc14 ROBT. P. LEE, Secretary.

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine County, State of California.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 13th day of September, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
James Ludlow	not issued	100	25 00
Edward Mickle	not issued	100	25 00

And in accordance with law, and an order of the Board of Trustees, made on the 13th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., at their Salesrooms, No. 826 Montgomery street, San Francisco, on Saturday, the 28th day of October, 1865, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

T. B. CUNNINGHAM, Secretary.

Office, 55 Montgomery Block, San Francisco. oc14

Wide West Gold and Silver Mining Company, Silver Mountain District, Alpine County, California.

Notice.—There are delinquent, upon the following described stock, on account of assessment levied on the 12th day of September, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Anthony, A	180	5 hal	$2 50
Brown & Kent	264	5	5 00
Bost, Reuben	5, 8, 135, 137, 139, 140 141, 142, 143, 144, 146, 147, 148, 150. 151, 152,		
	153, 154 155 5-ea	95	95 00
Bost, Reuben	156, 16. 163, 165, 166 10-ea	50	50 00
Bost, Reuben	257, 259 31-ea	62	62 00
Barnes, W A	227	10 hal	5 00
Crawford, John	84, 85, 86, 87, 88, 90, 91, 92, 93 5-ea	45	45 50
Crawford, John	83, 97, 98, 99 10-ea	40	40 00
Dayley, James	185	10	10 00
Davis, J F	214	10	10 00
Davis, J F	215, 216, 217, 218, 219 220, 221, 222 5-ea	40	40 00
Edsall, S B	not issued	150	150 00
Earl, Thomas	238	15 hal	7 50
Fido. Wm	not issued	200	200 00
Grayham, T B	72	10	10 00
Johnson, H	not issued	5	5 00
Johnson, H	271	5	6 00
McGee James	not issued	5	5 00
McManes, Dr	258	31 hal	15 50
McManes, Dr	260	32 hal	16 00
McGrinsey, J A	30	10 hal	5 00
McGrinsey, J A	33	5 hal	2 50
McGrinsey, J A	34	6 hal	3 00
McGrinsey, J A	not issued	12 hal	6 00
McDonald, Donald	234	10 hal	5 00
McSpadden, J O	201	10 hal	6 00
Porterfield, H	176	10	10 00
Rickman, P H	124, 125, 128 5-ea	16	15 00
Rickman, P H	128	10	10 00
Rickman, P H	129	8	8 00
Rickman & Sewell	132, 133 10-ea	20 hal	15 00
Stephens, Andrew	186	20 hal	10 00
Stephens, Andrew	not issued	115 hal	57 50
Stilwagon, W W	267	10 hal	5 00
Vaun, T	270	10 hal	5 00
West, W C	263	5 hal	2 50

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of September, 1865, so many shares of each parcel of said stocks as may be necessary, will be sold at public auction, at the auction rooms of Messrs. Olney & Co., 625 Montgomery street, on the 30th day of October, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.

Office, 338 Montgomery street. oc14

Walipi Gold and Silver Mining Company, (Mess Lode,) San Francisco Mining District, Arizona Territory.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 12th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
F A Walton	26	50	$50 00
F A Walton	27	50	50 00
F A Walton	28	20	20 00
F A Walton	29	20	20 00
F A Walton	30	20	20 00
F A Walton	31	20	20 00
F A Walton	32	10	10 00
F A Walton	33	10	10 00
Nathan H Vosler	44	10	10 00
Nathan H Vosler	45	10	10 00
Nathan H Vosler	46	5	5 00
Nathan H Vosler	not issued	175	175 00
Jobu Harris	41	10	10 00
Imogen R Levi	43	5	5 00
C H Doriot	51	25	25 00
Davis G Vinson	not issued	200	200 00

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., at No. 526 Montgomery street, San Francisco, California, on Monday, the 30th day of October, 1865, at the hour of one o'clock, P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

H. B. CONGDON, Secretary.

Office, 620 Washington street (Room 5), San Francisco, Cal. oc14

Mining Notices--Continued.

New Mining Advertisements to be found under another heading.

Apollo Gold and Silver Mining Company, Lander County, Nevada.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Bradley, H W	24	5	$2 50
Buel, D E	8	10	5 00
Buel, D E	11	10	5 00
Buel, D E	12	10	5 00
Buel, D E	13	10	5 00
Buel, D E	14	10	5 00
Buel, D E	15	10	5 00
Buel, D E	17	10	5 00
Buel, D E	18	10	5 00
Chevers, W H	30	5	2 50
Deitrich, W R	62	5	2 50
Filton, James	73	10	5 00
Filton, James	74	10	5 00
Filton, James	75	5	2 50
Harrington, W C	102	1	50
Hildreth, H P	79	112	58 00
Jacobs, N B	40	3	1 50
Leppien, Fred	43	3	1 50
Leppien, Frod	98	12¾	8 25
Lendonberger, T E	1	1½	75
Light, C H	21	9¾	4 69
Litchfield, W D	45	1½	75
Litchfield, W D	97	1½	75
McMarcus, M	94	9¾	4 89
Smith, A N	54	25	12 50
Waterman, E R	30	3	1 50
Wilton, E W	60	20	10 00
Wightman, John	27	11	5 50
Work, Geo	32	5	2 50
Work, J W	41	3	1 50

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Jones & Bendixen, auctioneers, at the office of the Company, on the 23d day of October, 1865, at the hour of 1½ o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. oc7

Black Ledge Gold and Silver Mining Company, Lander County, Nevada.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Ayres, W O	93	27	$54 00
Bonestel, C D	172	10	20 00
Bonestel, C D	173	10	20 00
Bonestel, C D	174	10	20 00
Bonestel, C D	175	10	20 00
Bonestel, C D	176	10	20 00
Bonestel, C D	177	10	20 00
Chevers, Wm H	25	5	10 00
Deitrich, W K	28	5	10 00
Dawley, H L	99	5	10 00
Cayle, A B, trustee	169	8	16 00
Cayle, A B, trustee	185	2	4 00
Cayle, A B, trustee	186	50	100 00
Cayle, A B, trustee	189	9	18 00
Crondolfo, A R	115	12	24 00
Harker, W B C	35	2	4 00
Harrington, W C	191	70	140 00
Harmon, F H	156	10	20 00
Heath, R W	16	8	16 00
Jacobs, N B	52	2	4 00
Knox, J W	155	2	4 00
Laforgo, A B	188	25	50 00
Leppien, Fred	55	2	4 00
Litchfield, W D	57	1	2 00
Litchfield, W D	151	1	2 00
Morrison, J C Jr	49	15	30 00
McManus, M	109	6¼	12 50
Nicol, W	91	1	2 00
Owen, L C	157	5	10 00
Rosenbaum, F H	99	5	10 00
Stateler, J W	70	25	50 00
Townsend, Jas B	142	13	26 00
Waterman, E R	51	2	4 00
White, Joseph	97	15	30 00
Winans, Jno C	62	1	2 00
Work, J W	53	2	4 00
Work, Geo	27	6	10 00
Work, Gee	107	5	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Jones & Bendixen, at the office of the Company, on the 24th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. oc7

Blue Ledge Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Abrams, M	102	5	2 50
Allen, H H	112	12½	6 25
Allen, H H	123	2	1 00
Armer, Max	75	5	2 50
Ayers, W O	107	10	5 00
Blake, G M	101	2	1 00
Blake, G M	172	1	50
Backman, D	163	20	10 00
Bowman, Jno F	74	5	2 50
Bettleback, S M	10	2½	1 25
Bettleback, S M	115	5	2 50
Brinkkopel, L	133	5	2 50
Frank, J	125	10	5 00
Frank, J	173	2½	1 25
Greene, S H	4	10	5 00
Greene, S H	81	2	1 00
Harrington, W C	200	1	50
Harrington, W C	209	20	10 00
Hess, C S	109	8¾	4 37
Heath, R W	5	20	10 00
Heath, R W	86	2	1 00
Heath, R W	111	12½	0 25
Heinebuig, A	174	2½	1 25
Hermau, S	141	5	2 50
Jacobs, N B & Co	171	4	2 00
Leppien, Fred	85	2	1 00
Levy, Isaac	156	10	5 00
Levy, Isaac	157	10	5 00
Levy, Isaac	158	5	2 50
Litchfield, W D	97	1	50
Litchfield, W D	201	1	50
Marks, S	193	5	2 50
Manheim, —	181	5	2 50
Meyer, Eugene	145	3	1 50
Meyerfeld, M	139	10	5 00
Meyerfeld, M	170	10	5 00
Rosenbaum, F H	11	2½	1 25
Simonsfeld, Julius	99	5	2 50
Smshelmer, S	180	2	1 00
Sharp, H	159	3	1 50
Smith, A N	17	25	12 50
Strauss, M	98	5	2 50
Strauss, M	168	3¾	1 87
Strauss, M	175	5	2 50
Stateler, J W	134	10	5 00
Stateler, J W	135	10	5 00
Stateler, J W	136	10	5 00
Stateler, J W	137	10	5 00
Stateler, J W	138	10	5 00
Watriss, Geo E	207	34 13-16	17 40
Wutermau, E R	155	2	1 00
Wensinger, F S	7	20	10 00
Weill, Alex	02	5	2 50
Weill, Alex	103	2½	1 25
Weill, Alex	117	2½	1 25
Wightman, Jno	83	4	2 00
Wmans, John C	94	1	50
Work, J W	87	2	1 00
Woodleaf, H	126	10	5 00
Woodleaf, H	127	10	5 00
Solomon, Sylvan	119	1	50

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Jones & Bendixen, at the office of the Company, on the 23d day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front, street, San Francisco, Cal. oc7

Bolinas Petroleum Company, Bolinas Township, Marin County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 2d day of October, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said company, payable on the 3d day of October, 1865, in United States gold and silver coin, to the Secretary, 511 Clay street, Room 8, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 4th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 20th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. L. KIRBY, Secretary.

Office, 611 Clay street, San Francisco, Cal. oc7

Evoea Consolidated Copper Mining Company, Court Hill District, near Black's Ferry, Del Norte County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of October, 1865, an assessment of fifty (50) cents per share was levied upon the assessable capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 302 Montgomery street City and County of San Francisco, California.

Any stock upon which said assessment shall remain unpaid on the 4th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 20th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

CHARLES E. ABBOT, Secretary.

Office, 302 Montgomery street, Room 6, third floor, San Francisco, Cal. oc7

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Assessment No. 7.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, only, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, removed to 338 Montgomery street, San Francisco. se23

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Honest Miner Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 28th day of September, 1865, an Assessment of 50 cents per share was levied upon the Capital Stock of said Company, payable on the 30th day of September, 1865, in United States gold and silver coin, to the Secretary, 402 Front Street, San Francisco.

Any stock upon which said Assessment shall remain unpaid before Saturday, the 28th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 13th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front Street. se31

Joe Lane Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Allen, H H	31	10	$5 00
Austin, C H	130	8	4 00
Ayres, W O	94	75	37 00
Baker, Fred	105	10	5 00
Baker, Fred	106	10	5 00
Baker, Fred	107	10	5 00
Baker, Fred	108	10	5 00
Bell, S B	124	10	5 00
Buel, D E	135	1	50
Carroll, F P	119	90	45 00
Carroll, F P	131	20 13-16	10 40
Chevers, W H	12	5	2 50
Dawley, H L	132	20	10 00
Deltrich, W K	36	5	2 50
Filton, Jas	75	10	5 00
Filton, Jas	76	10	5 00
Filton, Jas	77	5	2 50
Gentry, Abner	84	25	12 50
Harrington, W C	143	20	10 00
Hall, J J	127	10	5 00
Heath, R W	6	9	4 50
Heath, R W	92	25	12 50
Jacobs, N B & Co	89	7	3 50
Knox, J W	126	10	5 00
Leppien, Fred	5	2	1 00
Litchfield, W D	120	1	50
Litchfield, W D	19	1	50
McManus, M	104	6¼	3 12
Nicol, W	93	1	50
Rosenhaum, F H	91	4	2 00
Stateler, J W	128	25	12 50
Spire, C D	123	2	1 00
Waterman, E R	78	2	1 00
Watriss, Geo E	140	25	12 50
Welton, E W	88	25	12 50
Wightman, Jno	10	9	4 50
Work, Geo	14	5	2 50
Work J W	16	2	1 00

And in accordance with law and an order of the Board of Trustees, made on the 4th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Jones & Bendixen, at the office of the Company, on the 23d day of October, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. oc7

La Favorita Mining Company, Moctezuma District, Sonora, Mexico.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 30th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
John W. Rourke,	76	30	$15 00
Henry Pforr,	30	5	2 50
Heury Pforr,	31	10	5 00
Henry Pforr,	31	20	10 00
Henry Pforr,	33	20	10 00
Henry Pforr,	34	40	20 00
Emilio Clausen, old No.	67	100	50 00
E. Schlott,	11	10	5 00
E. Schlott,	41	2	1 00
Hugo Dreschfeld,	8	5	2 50
C. Ziesenies,	17	5	2 50
C. Ziesenies,	63	10	5 00
Henry Schroeder,	57	10	5 00
Henry Schroeder,	80	2	1 00
Also, on account of assessment levied February 28th, 1865, advertised heretofore, but not bid upon :			
Emilio Clausen, old No.	67	100	200 00

And in accordance with law, and an order of the Board of Trustees, made on the 30th day of August, 1865, so many shares of each parcel of said stock as may be necessary will be sold at public auction, by Messrs. Olney & Co., at No. 626 Montgomery street, San Francisco, Cal., on the 14th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

ELKAN WASSERMANN, Secretary.

Office, 429 Sacramento street, San Francisco, Cal. se30

Mammoth Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Assessment No. 5.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, only, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary,

Office, removed to 338 Montgomery street, San Francisco. se23

Constitution and By-Laws

—OR—

Mining and Prospecting Companies

Elegantly printed, with care and dispatch, at the office of the **Mining and Scientific Press.**

☞ Orders from the interior faithfuly attended to.

Ontario Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 19th day of September, 1865, an assessment of fifty cents per share, was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, or to T. P. CARROLL, at Austin, Nevada.

Any stock upon which said Assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

A. H. BEWLEY, Secretary.

Office, 323 Montgomery street (Odd Fellows' Hall), San Francisco, Cal. se23

Porter Gold and Silver Mining Company Virginia District, Storey County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 19th day of July, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Cole, Delos	5	10	50 00
Grim, A K	109	10	50 00
Grim, A K	103	200	1000 00
Grim, A K	104	95 5-6	479 17
Marston, P F	98	10	50 00
Marston, P F	99	20	100 00
Page, R C	54	13⅓	66 66⅔
Page, R C	46	13⅓	66 66⅔
Stanchfield, L G	50	10	50 00
Stanchfield, L G	57	5	25 00
Stevens, T H	89	5	25 00
Smith, E F	92	12½	62 50

And in accordance with law, and an order of the Board of Trustees, made on the 19th day of July, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at public auction, by Maurice Dore & Co., at No. 427 Montgomery street, San Francisco, Cal., on the 14th day of October, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. W. WESTON, Secretary.

Office, 534 Clay street, San Francisco. se30

Pizarro Silver Mining Company, Cortez Mining District, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of November, 1863, an assessment of ten cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 4th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner of Clay and Front street, San Francisco, Cal. se16-4w

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of September 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the 25th day of October, 1865, in United States gold and silver coin, to the Secretary, at his office, No. 223 Front street, San Francisco, Cal., or to GEO. T. TERRY, Superintendent, Austin, Lander county, Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 28th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

E. J. DRINKHOUSE, Secretary.

Office, No. 223 Front street, San Francisco, Cal. se30

Segregated Belcher Mining Company, Gold Hill District, Storey County, Nevada.

NOTICE.—There are delinquent upon the following described Stock, on account of Assessment levied on the 7th day of September 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Burke, E R	2 3 4 5 0 7 8 9 16 100-ea	900	$1800 00
Burke, E R	11 12 13 10-ea	30	60 00
Burke, E R	14	3	6 00
Blasdell, H G	43 44 45 46 47 48 49 50 20-ea	160	320 00
Blasdell, H G	51 52 53 54 55 56 57 58 10 ea	80	160 00
Blasdell, H G	59 50 61 62 63 64 65 66 67 68 69 70 5-ea	60	120 00
Blasdell, H G	71 72 73 74 5-ea	20	40 00
Livingston, F	85 86 200-ea	400	800 00
Wheeler, C T	20 21 22 23 24 40-ea	200	400 00
Wheeler, C T	25 26 27 28 29 30 31 32 33 34 20-ea	200	400 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, at the salesroom of J. Middleton & Son, 404 Montgomery street, San Francisco, on the 23d day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

JOHN F. LOHSE, Secretary.

Office, 318 Montgomery street, up stairs. oc7

Notice.—The Stockholders of the San Fernando Petroleum and Mining Company are requested to attend a meeting at the Office of the Company, on the first Monday in October, for the purpose of electing officers for the ensuing year.

A. N. CLARKE, Secretary.

ADJOURNMENT.—The above meeting was adjourned by a minority of the Stockholders, to the first Monday in November.

A. N. CLARKE, Secretary.

Office, 121 Montgomery street, San Francisco. oc7td

Taurus Mining Company, Santa Fe Mining District, Lander county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 29th day of August, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
D E Waldron	12	200	100 00
D E Waldron	13	100	50 00
D E Waldron	14	100	50 00
D E Waldron	15	140	70 00
T C Hall	30	50	25 00
D H Hall	31	50	25 00
D H Hall	32	50	25 00
D H Hall	35	50	25 00
D H Hall	36	50	25 00
D H Hall	37	50	25 00
B Moron	91	10	5 00
B Moron	bal 40 and 93	210	105 00
G H Willard	44	52	20 00
G H Willard	45	52	26 00
G H Willard	46	53	20 50
G H Willard	47	53	20 50
J A Veatch	48 to 52 inc 10-ea	50	25 00
J A Veatch	53 to 58 inc 15-ea	90	45 00
J A Veatch	59 to 64 inc 20-ea	120	60 00
J A Veatch	65 to 68 inc 25-ea	100	50 00
J A Veatch	not issued	360	180 00
J S Currie	00 to 73 inc 10-ea	50	25 00
J S Currie	74 to 79 inc 15-ea	90	45 00
J S Currie	80 to 85 inc 20-ea	120	60 00
J S Currie	86 to 89 inc 25-ea	100	50 00
J S Currie	not issued	360	180 00
R J Moody	90	75	37 50
I C Bateman	05 90 98 5-ea	15	7 50
I C Bateman	99 100 101 10-ea	30	15 00
Quintin Ribo	102 103 104 105 100 50-ea	250	125 00
Quintin Ribo	bal 108	235	117 50
Wm M Davis	100	25	12 50
Wm M Davis	not issued	650	325 00
Cornelius Smith	110	25	12 50
H Bordas	113	20	10 00
Timothy Harris	114	25	12 50
Mary A Clark	115	25	12 50
Henry F Ackley	116	25	12 50
R O'Keefe	117	10	5 00
R O'Keefe	118	15	7 50
Henry Gribbin	119	25	12 50
John Walker	120	25	12 50
G Golero	121 to 127 inc 10-ea	70	35 00
G Golero	129 to 133 inc 10 ea	50	25 00
A H Stout	138	25	12 50
Arise Molinelli	146	10	5 00
J A Giusti	151	20	10 00

And in accordance with law, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on the 14th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. H. BURTON, Secretary.

Office, Room 4, northwest corner Clay and Front streets, San Francisco, Cal. se30

United States Mining Company, Virginia District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of September, 1865, an assessment of 25 cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold or silver coin, to the Secretary, or to JAS. V. COFFEY, at Virginia.

Any stock upon which said assessment shall remain unpaid on Monday, the 14th day of October, 1865, will be advertise on that day as delinquent, and unless paymen shall be made before, will be sold on Saturday, the 28th day of October, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

J. M. BUFFINOTON, Secretary.

Office, No. 10 Government House, corner Sansome and Washington streets, San Francisco, Cal. se15

POSTPONEMENT.—The advertisement of stock delinquent on the above assessment is hereby postponed until Saturday, the 21st day of October, 1865. By order of the Board of Trustees.

oc14 J. M. BUFFINGTON, Secretary

Yankee Blade Tunnel Company, Reese River District, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 1, levied on the 15th day of January, 1864, and assessment No. 2, levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Assessment No. 1, levied January 15, 1864—

Names.	No. Certificates.	No. Shares.	Amount.
C B Harwood	not issued	200	$100 00
T F Gould	not issued	200	100 00

Assessment No. 2, levied Sept. 4, 1865—

Names.	No. Certificate.	No. Shares.	Amount.
C B Harwood	not issued	200	$00 00
C B Harwood	8 & 9 50-ea	100	30 00
J F Durkin	not issued	100	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Secretary, 305 Montgomery street, San Francisco, by Olney & Co., auctioneers, on the 27th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, San Francisco, Cal. oc7

Yosemite Silver Mining Company, Oro Fino District, Humboldt county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 20th day of September, 1865, an assessment of one dollar and twenty-five cents ($1.25) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to D. H. CROWE, No. 402 Front street (up stairs), San Francisco, or to JAS. T. MACLEAN, Superintendent, at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

S. O. PUTNAM, Secretary.

San Francisco, Sept. 20, 1865. se23

RESTORING THE FEATURES OF DEAD BODIES. The following process of restoring the features of a dead body that has undergone putrefaction is being applied with great success. The body is placed in a water-tight shell; twenty pounds of common salt, and one pound of hydrochloric acid are added to the water and the immersion is sustained three hours. The body is then removed, the face is washed with simple water and then with chlorine water, and finally a current of chloride gas is passed freely over the face. The restoration of the features thus rendered is so perfect that the body can be positively identified.

PERHAPS the largest fee that has ever been given to any man of a rank lower than that of royalty, was lately bestowed on M. Nellaton, the famous surgeon. He received a fee of £16.000 for going to Russia to wait on a patient.

"Patent Paper Reel for Telegraph Register."

SAN FRANCISCO, Sept. 18, 1865.

EDS. MINING AND SCIENTIFIC PRESS—*Sirs*:—Having noticed the above heading in your valuable paper of the 9th inst., I beg leave to inform you that the invention is not Mr. L. W. Worth's, but one already patented by me, while a resident of Cleveland, Ohio. His form of reel is one that I first got up in 1863, and filed a caveat for, and afterwards improved by putting some gearing, or clock machinery, so as not to use so much cord. The length of cord that I use now to run all day, would not run his reel one hour. After making my improvement, I applied for a patent, which was granted to me on the 19th of January, 1864. That patent covers all of his, so-called, improvement, as will be seen by my patent (No. 41,312) which claim reads as follows:

"What I claim for my improvement, is the arrangement of the mutually exchangeable reels D and F, in combination with the gears, cord, pulleys, and weight, the several parts being constructed, arranged, and operating as and for the purpose herein set forth."

This patent was obtained for me by Messrs. Brainard & Burridge, of Cleveland, Ohio, Patent Solicitors. And I further state, that all persons wishing to use said Paper Reels, will please to come and make arrangements with me for their use. As for any advantage he has over other reels, it can only be that he has a greater length of cord to wind up. Those that I built, of his style, before I had mine patented and after I filed a caveat, had all to be exchanged for my new Reel. In putting this up it takes only six screws to do the whole business, and takes up so little room that it is quite a convenient and useful instrument.

Address, **HENRY McGANN**,
12v11 At the Union Works, First st., San Francisco.

VALUABLE
PATENT RIGHT
FOR SALE.

The patent right for the United States of a valuable invention can be secured at a bargain by applying at this office. The article is one of general application throughout civilization.

DEWEY & CO., Publishers.

QUICKSILVER
FOR SALE BY
S. F. BUTTERWORTH
Northwest cor. Battery and California sts.
v9-19 SAN FRANCISCO.

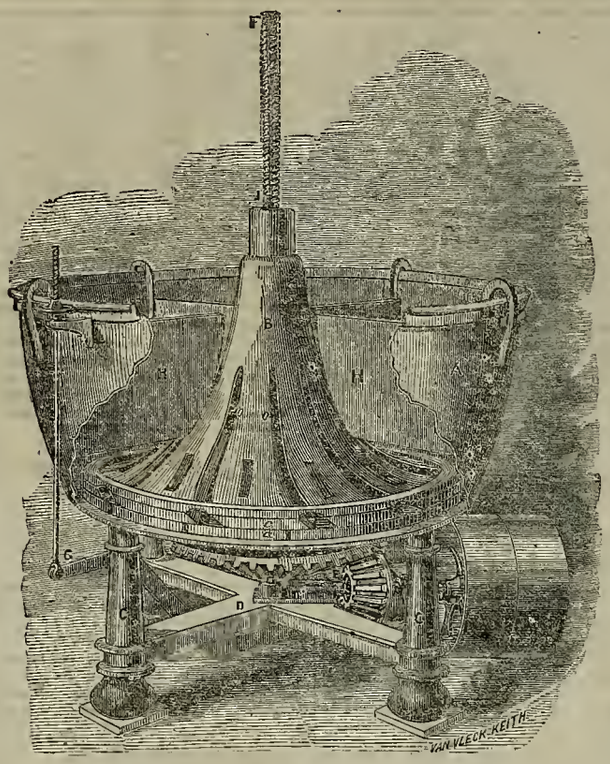
EUREKA
PATENT BLASTING POWDER.
Price $3.50 Per Keg.
Office, southeast corner Battery and Commercial streets.
Room No. 9, with San Francisco Chemical Works,
CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2v11qy

WILLIAM PENROSE,
Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,
Is prepared to buy in any quantity
COPPER, SILVER, GOLD, LEAD
AND OTHER VALUABLE ORES;
Also Lead Bars Containing Gold and Silver,
☞ Full value paid on delivery in this City.—☜
Address Lock Box No. 992, P. O., San Francisco. 25v10

Copper, Lead, Gold, Silver,
Nickel and Cobalt Ore.
The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to
THOMAS PRICE,
Agent for Townshend, Wood & Co., Swansea,
No. 416 Battery Street, San Francisco.
15v10-3m

MARTIN & CO.,
Office, Stevenson House,
Corner California and Montgomery streets (up stairs).
WILL CONTRACT FOR THE
PURCHASE OF COPPER ORES,
Assaying eight per cent. and upwards of Copper to the
We will make advances upon Ores of Copper.
San Francisco, Post Office Box 1259, 22



THE EXCELSIOR
GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

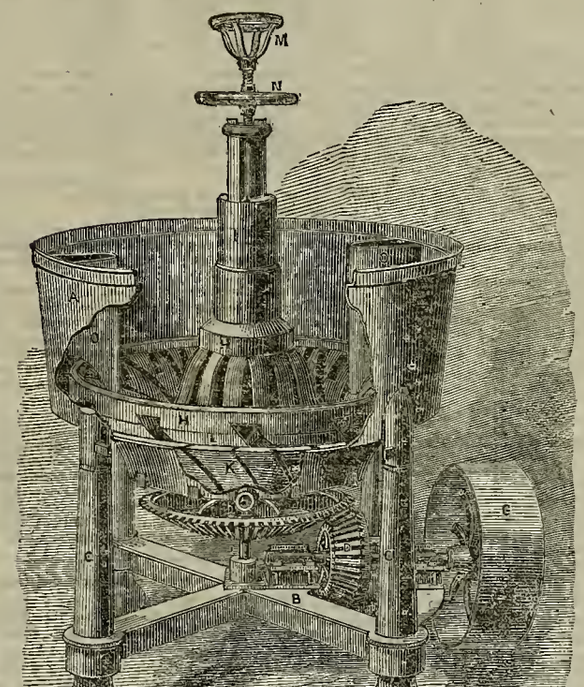
Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE
Union Iron Works and Golden State Iron Works,
WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.
SAN FRANCISCO, June 13, 1865.



THE
WHEELER & RANDALL
Grinder and Amalgamator

In the engraving herewith exhibited, A represents the Rim of the Pan; B, Cross Frame; C, Legs; D, Gear; G, Driving Pulley; H, Muller; I, Driver; K, Dies; L, Shoes; M, Hand Wheel; N, Jam Nut, and O, Wings or Guide Plates.

The attention of the Public is respectfully called to these facts:

1st. That the Mechanical work accomplished by differently formed grinding plates, having the same diameter, weight, hardness, and revolving at the same velocity, is as follows, to wit:

The Mechanical Work of plane, circular plates of the usual ring form, is ninety-eight.....98

The Mechanical work of conical plates of the most approved form, is one hundred and ten.....110

The Mechanical work of Tractory-formed plates, as introduced in the invention of Wheeler & Randall, is one hundred and seventy-seven.....177

That is, the Tractory-formed grinding plates will reduce one hundred and seventy-seven tons of ore, the conical grinding plates one hundred and ten tons, and the plane circular grinding plates ninety-eight tons, to the same degree of fineness in the same time. Those using this invention certify that they thoroughly reduce five tons of ore, as it ordinarily comes from the wet battery, per day in each pan, four feet diameter, the muller making sixty-five revolutions per minute.

2d. That as a whole, the Wheeler & Randall Grinder and Amalgamator is one of the most simple, compact, substantial, convenient and efficient pans in use.

☞ Patent applied for.

MANUFACTURED AT
GOLDEN STATE IRON WORKS.....San Francisco
UNION IRON WORKS..... "
MINERS' FOUNDRY..... "
SAN FRANCISCO FOUNDRY..... "
PRESCOTT & SCHEIDEL.....Marysville.
OREGON IRON WORKS.....Portland, Oregon.

WHEELER & RANDALL, Inventors.
SAN FRANCISCO, JUNE 13, 1865.

JOHN TAYLOR & CO.,
—IMPORTERS AND DEALERS OF—
ASSAYERS' MATERIALS,
Druggists' & Chemists' Glassware,
Photographic Stock, Etc.
512 and 514 Washington Street,
SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior
ASSAY AND BULLION BALANCES,
And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.
A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.
San Francisco, March 6, 1865. 11v10-tf

SAN FRANCISCO
CORDAGE MANUFACTORY.
CONSTANTLY ON HAND,
A Large and Complete Assortment
—OF—
MANILA CORDAGE,
FOR MINING PURPOSES.
—ALSO—
WHALE LINE, BALE ROPE, ETC.,
Manufactured from Pure Manila Hemp.
Hoisting Ropes for Deep Shafts,
—ALSO—
Lines for Ferry Boats,
Manufactured to Order.
Office at **TUBBS & CO.'S,**
Nos. 611 and 613 Front street.
Manufactory at the Potrero. 14v10

WE ARE NOW OFFERING
OUR IMMENSE STOCK
—OF—
Fine Custom Made Clothing
—AND—
Gents' Furnishing Goods
AT PRICES THAT DEFY COMPETITION.
Our Stock of Clothing Consists of
ALL THE LATEST STYLES
BOTH OF MATERIAL AND FINISH.
A Large Assortment of
Trunks, Valises, Carpet Bags, Blankets, Etc.,
AT EXTREMELY LOW PRICES.
J. R. MEAD & CO.,
8v10 Cor. of Washington and Sansome streets.

PREPARING FOR THE FUTURE.—The Government is preparing for the future. A portion of the fleet of the nation is to be housed along the Delaware, and the hundreds of thousands of serviceable muskets and rifles and sabres and sets of accoutrements are being repaired and stored in the various arsenals and forts throughout the country. It would be interesting to know the number of weapons of war of all kinds now in the hands of the Government and the amount of munitions ready for use. The small arms must number millions, the cannon tens of thousands, and the food for both can scarcely be estimated. During the struggle, there have been more than two millions of men under arms in the United States at the same time, and the weapons used were the best known to warfare. Many thousands have of course been destroyed, but the arsenals have more than compensated for the losses, and the number steadily increased, by home manufacture and importation, all through the war. Of the arms used by the rebel armies, probably one-half fell into the hands of the Government. All of these immense quantities of arms and military stores are being laid away by the Government for future use.

NITRE.—The Reese River *Reveille* says that a deposit of what is claimed to be pure nitre has been discovered near Tar Creek, about four miles from Geneva. Mr Riotte, a mining expert, was about to visit the locality to make a thorough examination of the extent and quality of the deposit.

MINING LAWS AND FORMS.

Third Edition revised and enlarged.

Compiled by H. B. CONGDON.

THIS Edition contains all the laws of the *STATE OF CALIFORNIA* and *NEVADA TERRITORY*, relative to Mining Corporations together with the Mining Ordinances of Mexico, complete; Digest of Decisions of the Supreme Court; Forms etc. 16 mo. flexible cloth, 192 pp. $2.50.

Published by H. H. BANCROFT & CO.

REMOVAL!

R. WEGENER,

Accountant and Mining Secretary

Has removed to

No. 415 Montgomery Street—west side,

Between Sacramento and California sts.,

6v10 SAN FRANCISCO.

THE STYLE

—FOR—

Fall and Winter, 1865,

Will be introduced Aug. 26, at

MEUSSDORFFER'S

HAT MANUFACTORIES,

Nos. 635 & 637 Commercial st., San Francisco,

No. 125 J st., bet. Fourth & Fifth, Sacramento.

Corner D and Second Streets, Marysville. 12v11

Machinery.

OIL WELL BORERS.

A CONTRACT WILL BE LET TO A RESPONSIBLE party to sink an Oil Well, as deep as may be required, on land belonging to the "Eel River Oil Company," situated in Humboldt county, Cal. For particulars, inquire at the office of the Company, No. 436 Jackson st., up stairs.

12v11-1m E. H. WILSON, Secretary.

SALMON'S

PROPELLOR AMALGAMATOR

—AND—

Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

9v11 **J. & W. C. SALMON.**

VARNEY'S

PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setters made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setlers for themselves, at the **PACIFIC FOUNDRY,**

1v1 San Francisco.

Hepburn & Peterson's

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th. (Illustrated in the Mining and Scientific Press, April 9th, 864.)

nov8 3m* HEPBURN & PETERSON.

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1861; his Crescoille Quartz Crusher; his Pulverizer; and his Improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast, amalgamate, assort, concentrate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. **B. FAUCHERY,** Engineer,

24v9

BLAKE'S

QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA,
WASHOE,
ENGLAND, FRANCE,

—AND—

THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,

Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.

4v10

ATTENTION, MINERS!

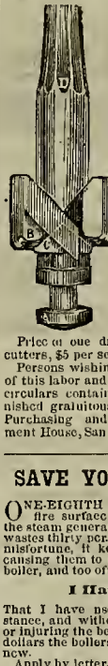
LINSCOTT'S PATENT

CHAMBER DRILL.

Great Improving in Blasting.

W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.



D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ⅝ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1⅜ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSITON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it burns the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery, or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street above First (opposite the Oriental Hotel), San Francisco

23v10

Rowe's Patent Æolian Refrigerator.

THIS NEW AND IMPORTANT INVENTION IS NOW offered to the public, with the fullest conviction that it will be found invaluable to the dairyman, and of most essential service in every household. By its use the amount of cream from milk may be increased nearly one-third in quantity, while for general refrigerating and ventilating purposes, it has no equal. Call on OSGOOD & STETSON, 219 Commercial street, San Francisco, and examine for yourselves.

14v11 **W. S. ROWE, Proprietor.**

The Mechanics' Institute

AWARDED A

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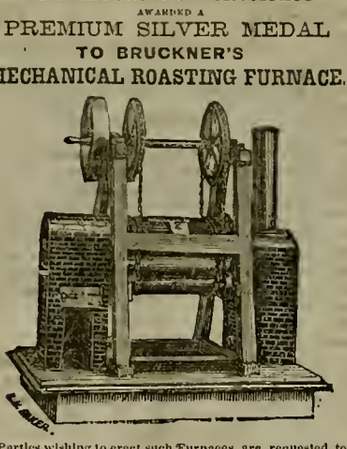

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THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

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Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

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HORSE POWER

For Sawing Wood,

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

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HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

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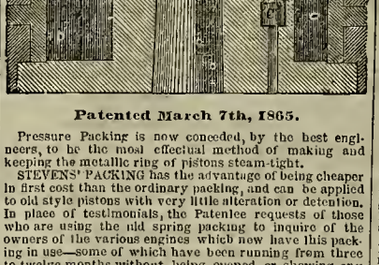

Patented March 7th, 1865.

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

STEVENS' PACKING has the advantage of being cheaper in first cost than the ordinary packing, and can be applied to old style pistons with very little alteration or detention. In place of testimonials, the Patentee requests of those who are using the old spring packing to inquire of the owners of the various engines which now have this packing in use—some of which have been running from three to twelve months without being opened, or showing any descriptive leak—and act upon their recommendation.

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AT THE STATE FAIR held in Sacramento, September, 1865, a Committee, after examining both the Linscott's and Stow's Chamber Drills, reported as follows:

We, the undersigned, Committee on Mining Tools, do award to Henry M. Stow, of San Francisco, the FIRST PREMIUM for the best Chamber Drill for blasting rock, for the following reasons:

1st. For simplicity of construction;
2d. For durability of drill;
3d. For strength of drill.

The above Drills will be sent to any part of the State for $30, with one set of Cutters or Chisels that will chamber from 15 to 150 holes. Extra Chisels furnished at $2 50 per set.

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We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jeffersonian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crull's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

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For further particulars, or to see this Pan in operation, call on or address

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Hinkle's Centrifugal Pulverizer and Amalgamator!

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This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine made entirely of Iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

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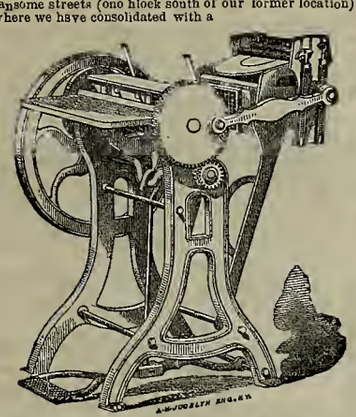

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SAN FRANCISCO, SATURDAY, OCTOBER 21, 1865.

VOLUME XI. Number 16.

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New Mining and Other Advertisements, Etc.

THE LATE EARTHQUAKE ON THE WATER.—A Sacramento gentleman informs the *Bee*, of that city, that at the time of the late severe earthquake he was enjoying a sail in a pilot boat, off the heads, and says that just as the shock occurred the pilot boat was about two miles inside the bar, crossing which was a brig from Oregon. The sea was unusually smooth and the wind light. Just as the shock came, the brig on the bar was observed to plunge violently, the waves running mountain high for a few moments. The sea-swell abated considerably when it struck the deep water where the pilot boat was, but the pilots estimated the hight of the first wave at ten feet.

The effect on the waters of the Mission Bay, which is very shallow with a soft muddy bottom, is described by eye witnesses to be such as to cause the water to surge and boil, not rolling, but apparently bursting up as though there was a violent vertical agitation of the earth beneath the water. The mud was evidently disturbed and the water rendered black by admixture therewith.

STATISTICS recently published show that the deposits in the savings institutions of San Francisco amount to nearly six million dollars, for which money the depositors receive an average interest of one per cent. per month. Out of the city there is not a single savings bank in the State. Neither is there one in Oregon, Washington, Nevada, Idaho or Utah. Generally speaking, the industrial classes of San Francisco, as well as the clerks and small tradesmen, are prudent and forehanded, as their bank accounts attest.

GOLD AT THE MINT.—The total amount of gold and silver coined at the San Francisco Mint, during the quarter ending Sept. 30th, has been $6,781,300, which is $5,531,000 more than the calculated capacity of the Mint building when erected. Compared with the corresponding quarter in two previous years, the coinage account stands as follows:

Quarter ending September 30, 1865	$6,781,300
Quarter ending September 30, 1864	5,945,300
Quarter ending September 30, 1863	6,648,000

THE following is the amount of quicksilver produced by the quicksilver mines within the Second Collection District of California, for the month of September:

	No. of Flks.	No. of lbs.
New Almaden	3,606	352,359
New Idria	293	22,714½
Guadalupe	120	9,180
Totals	5,019	384,253½

LOW WATER.—The Connecticut river at Hartford was forded by a team on Saturday, Sept. 2d, a circumstance which was never known to have taken place before. The river is still very low.

EARTHQUAKE PHENOMENA.

It is not only a pardonable, but even a most laudable desire on the part of thinking people that leads them to inquire into the causes, nature and effects of the various phenomena which are taking place around them. There is nothing in nature, from the most minute microscopic object or effect, to the most distant sphere which rolls in space or the grandest phenomena of earth which are brought within his reach of observation, that man may not consider and study with profit to himself and his fellows.

The phenomena of earthquakes have of late years engaged much attention among scientific men; but owing to the physical difficulties attendant upon careful and close observations, sufficient facts have not yet been collected to afford any very definite conclusions either as to the cause or the particular effects which these convulsions exert upon the surface and superficial crust of the earth.

The most prevalent opinion, however, is that which connects them with the great supposed central heat of the earth—the residue of that incandescent state in which it is probable the entire globe existed at an early period in its development. Under this hypothesis it is assumed that the crust of the earth is of varied thickness, and that it is extensively fissured and contains vast caverns, produced by unequal contractions in cooling. Through these fissures water at times is supposed to find its way to the heated mass within, from which explosive gases are formed similar to those generated when water is brought in contact with molten iron; or perhaps explosive steam is suddenly formed such as occasionally produces the terrible effects we witness at some of our most violent steam boiler explosions.

Some have referred the cause of these convulsions to electrical agencies; but the effects usually attendant upon them are such as to afford very little basis for any such supposition. The only other hypothesis, than the one first named, which has met with any considerable degree of countenance from geologists and scientific men generally, is that which merely qualifies the character of the interior heat—referring it to a chemical origin, rather than that of internal incandescance.

It is well known that some of the metalic bases of the alkalies and earths, such as potassium, for instance, and more remotely sodium, produce a violent explosion when immersed in water, particularly if that water be heated to something more than the boiling point. The vast amount of alkaline matter that modern geographical discoveries have shown to exist upon and near the surface of the earth, has given rise to the very reasonable supposition, that these bases may exist in large quantities within the earth, in the same form in which they are prepared for chemical and commercial purposes. Should such be the case, and should they exist where they can be reached by any considerable bodies of water, there is no need of any internal natural fire or incandescence, to explain the usual phenomena of earthquakes and volcanos. As yet our knowledge of the earth's crust is quite too limited to enable us to say more than that all the conditions of which we speak may exist there, and that those conditions *may* produce all the phenomena which are recorded of both earthquakes and volcanos.

Modern researches and observations, in this direction, have recently added a new branch to the exact sciences, which has received the appellation of *seismology* (from *seismos*, the Greek term for an earthquake). The immediate and most important applications of this science relate to the discovery of the nature of the deep interior of our planet, of its more superficial exterior, and of the reactions of the one upon the other, and of the component parts of the latter upon each other. In connection with the kindred subject of volcanic phenomena, it seemingly affords us a most ready path to a knowledge of the depth from which the shocks proceed, and *may* become a key by means of which we may approximately arrive at the probable or even possible force of any shock which can be delivered beneath any given locality. Observations thus far have demonstrated, to a great degree of certainty, that earthquake movements are produced by heat, that great source of power and motion. The manner in which heat is brought to bear in producing these effects, has already been sufficiently explained.

Admitting the source, we will now endeavor, by aid of various authorities before us, to point out how the tremendous power displayed is conveyed from point to point.

If we fill a tube of any moderate length, perhaps not to exceed a mile, with water, and close both ends, say with a piece of tin or thin iron, and give even a very light tap upon the covering of one end, the effect of that blow may be distinctly perceived at the opposite end by a slight quiver of its thin covering. This force is conveyed through the water by a *pulse* or *wave* of force, originated by the original impulse or blow. This movement of a non-compressible elastic body, like water, is readily conceived; but if we substitute in place of the tube a solid iron rod, it will require but a slightly increased impulse or blow to produce the same result. The transfer is made through both the solid and liquid on the same principle. This *elastic wave* is merely a continuous forward movement, or displacement and replacement of the particles of matter, affecting in succession the whole mass of material upon which the impulse is given. The size of such a wave—or the volume of the particles of matter in motion at once, depends upon the elastic limits of the substance acted upon, and the amount of power expended in the originating impulse. The experiment may be tried upon a line of railroad, more readily over a short section where the rails may be successively in close contact, by striking a blow with a heavy hammer at one end while the observer notices the effect at the opposite extremity. The same effect may be produced through a volume of stone—take a long slab of marble or granite.

The movement of the impulse is the same whether we are made conscious of it by sound or vibrations. Notice when a blast is fired in a quarry or mine; a wave impulse is sent off in every direction—the effect of the explosion. This may be favorably observed in underground blasting for mining purposes.

From these observations it will be readily perceived that when the originating impulse is very violent, and the mass of material acted upon very great, as in case of the supposed earthquakes producing gas explosions, the wave of impulse or force must be proportionally great, and so large in fact as to cause a perceptible undulation of the surface of the earth, and by the transit of which across the country precisely the same effect is produced as is caused by the transmission of a wave, or series of waves, across a body of water on which a ship may be riding at anchor.

From these considerations the fact is considered fully established that an earthquake, so far as it is developed on the surface, is simply *the transit of a wave or waves of elastic compression in any direction from vertical to horizontal, through the crust or surface of the earth from any centre or centres of impulse.*

There are some phenomena, attending earthquakes, which at first thought may appear inexplicable as derivable from such an impulse; among which we may mention a seemingly tortuous motion, the occurrence of which is inferred from the occasional *twisting* of heavy bodies on or from their basis, as projecting chimneys, columns, etc.; the spouting of water from earth crevices, and the occasional gyratory motion imparted to water in confined places, the latter class of phenomena being particularly referred to by a correspondent of yesterday's *Alta*, in support of the electrical theory. We propose to examine these phenomena, with others, in our next issue.

THE SEVEN OLD AND SEVEN NEW WONDERS OF THE WORLD.—The Egyptian pyramids, the Mausoleum of Mausolos, the Temple of Diana, the walls and hanging gardens of Babylon, the Colossus of Rhodes, the Statue of Jupiter, at Athens, and the Pharos or lighthouse of Ptolemy Philadelphus, 500 feet high, have long been considered as the seven great mechanical wonders of the world.

The seven modern wonders of the world are: the Steam Engine, the Printing Press, the Telescope, the Microscope, the Electric Telegraph, the Chemical Laboratory, and the Photograph. The superior utilitarian character of the moderns over the ancients, is most remarkably exemplified in the above enumeration of the chief efforts of the highest mechanical genius of the two classes separately considered.

PATRONIZING HOME MANUFACTURES.—The Pacific Railroad Company daily use two hundred kegs of blasting powder in their operations on the line of road. The whole of this is made by the California Powder Mills, which are kept fully employed in filling orders. The quality of the powder being better, and the price lower, than the imported article.

THE ACTON COPPER MINE, in Canada, owned by a Boston company, and whose shares once stood high on the list, has recently been sold at auction, in Boston, for $20,500. The capital stock was $500,000.

GEN. ROSECRANS expects to leave this city for the East on the next steamer.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

EXPLORATIONS FOR COAL AT CRYSTAL PEAK.

Ths necessities of a mining population, such as that of Nevada, depsndent ou a comparatively limited supply nf wood for ths immense quantities of fuel consumed in miniug and milling operations, as well as for domestic purposes, bave induced in the minds of many persons in our State a ready belief in tbe runors that deposits of good coal had beeu found in tbs districts surrounding Virginia City, which plaes feels ths want, probably, as keenly as any on the Pacific coast.

At intervals during the last twelve months, small samples of coal have been brought to this city from sevcral localities, prominent among which stands Crystal Peak, producing considerable excitement and resulting in ths expenditurs of considerable money; whether with prospscts of success, or otherwise, it is not my intention to examine in ths preseut paper.

Crystal Peak lies immedintely at the foot of the Sierra Nevads, on the eastern slope, at ths point where ths Truckee River turns suddenly to the eastward; the principal explorations having heeu made iu Dog Valley, which runs nearly north and south. In this district, and indeed so far as present explorations have exteuded, for many miles in every direction, there is no trace of the immense heds of the fossiliferous sandstones, limestones and shales, belonging to the older formations which accompany the cnal deposits of America and Europe, and between which they are found. The main mass of tbe Sierras consist of granite, porphyry, metamorphic slate, and basalt. The only true stratified rocks in the neighborhood of Crystal Peak, in which by any possihility deposits of coal could be found, are thin beds of coarse granitic sandstone and whitisb volcanic tufas, or ash, and it is in these that the fragmentary masses of coal occur. As far as I can learn, these heds have afforded no fossils in that immediate district, hut they can he traced for fifteen or twenty miles to the eastward, where they contain many imperfect impressions of willow leaves, grasses, etc., and in one instance the elytron of a heetle, very closely allied to, if not identical with, a specics of *buprestis*, at present found in Western Nevada, attached to the nut pine. These remains indicate for the deposits a very recent date; a view confirmed by the fact that the sandstones and tufas are found only in the valleys at the base of the chief monntain ranges. This latter circumstance goes to show that the country had attained very much its present conbguration before the valleys were again submerged. This fact, combined with the abrupt character of the mountains surrounding the valleys, and the contracted area of those valleys, necessarily limits the extent of the deposits formed within their limits. That they do not overlie, to any extent, the rocks of older date in the vicinity of Crystal Peak, is npparent from the fact that these rocks crop out at a slight elevation above the valleys; and they cannot lie beneath them because they were there before the sandstones, derived from them by the action of the clements, were formed.

There still remain in Steamboat Valley, which lies immediately east of Crystal Peak, nhundant evidences that at one time it formed a large lake, one arm of which extended to Crystal Peak; its shores being formed by the monntain range of the Sierras on the west, and that of Virginia on the east. It was dnring this period that the coal deposits of Crystal Peak were formed. As helore mentioned, the few fossil remains hitherto discovered point to a scanty vegstation, such as characterizes the district at the present day; not to tbe exuberant growth which distinguished the eras of the great coal deposits of the world, and which exceeded in splendor the luxuriant tropical forests of the Amazon and Lower India. When it is remembered that vegetation loses nearly six-sevsnths of its bulk in the process of conversion into coal, it will be seen tbat only undsr similar circnmstances could any large body be formed, and that the flora of Nevada to-day, as then, is utterly inadequate for the purpose. The structure of the wood of the Crystal Rock coal, and the circumstances under which it occurs, render it probable that it is the remains of trees which were washed down from the surrounding mountaius and buried in the narrow arm of the lake before mentioned, under conditions favorable to their transformation into coal. In this case the deposit is boundsd by the mountains immediately surrounding, and can never repay by its extent the eost of extraction.

That tbe sbovs explanation is not far from the truth, will be evident to any one acquainted with coal mining, who will carefully and impartially examine the locality; nor should I have thougbt it worth while to allude to the subject at all, were it not that much valuable time and money have been expended in Nevada, searching for eoal in localities whers a little knowledge and forethought would have convinced the prospectors there was no probahility of success. Some sanguine but misguided individual in one place sank a shaft probably one hundred feet deep, on a mass of lava or obsidian, occurring in a flow of basalt of some miles in extent. True, it resembled coal because it was black and glossy, but the fortunate (!) proprietor must have been slightly astonished when he did discover in the fullness of time that it would not burn. These remarks on misdirected prospecting are not applicable to eoal alone, but may be transferred with equal propriety to much that has been done in the rage for copper and silver, as the "wildcats" of Nevada testify.

In writing the above I have no wish to discourage legitimate enterprise; but would like to see a little of the common sense so highly prized in ordinary business matters applied to miuing as well. It is lamentable to see time, labor and money irrevocably lost, when we have none too much of either to develop resources that would result in advantage to the individuals themselves, as well as to the welfare of the State at large. S. H. R.

[Written for the Mining and Scientific Press.]

A Trip to the Mountains.

NOTES FROM THE JOURNAL OF A. S. N.

COLUMBIA.

Leaving Murphy's and crossing the valley of the Stanislaus, we arrived at Columbia. Placer mining we fiud is still carried on in this section, but not to that extent it has heen in years pnst. It, however, receives considerable attention, and undoubtedly will for many years to come. This has been a rich mining district, and if we might judge of its productiveness from the amount of wurk that has been done, we should say one of the richest in the State. For many square miles the surface of the earth has heen taken up, washed, and drifted off into the valley of the San Joaquin, leaving the rocks naked and desolate, giving the country a decidedly barren appearance.

Two miles north of Columbia, and near the Stanislaus, are the marble works. This quarry has produced some of the finest marble in the State. The color of the marble is grey or clouded, of fine-grained texture, very compact, and hard to work. There is a water-power mill adjoining the works, in which there are four saw-beds, each containing several saws. A large quantity of marble has already been sent to market, and much more yet remains at the mill, sawed into slabs and blocks, ready to be shipped. When a railroad is constructed along the valley of the Stanislaus to Stockton, or some other convenient shipping port, this marble will prove a valuable product of the State.

There are many qnartz mines and mills in this vicinity, some of which are doing little or nothing. We fiud in many cases that the amount of gold obtained from the rock falls far short of what it assays. Incompetent men and imperfect machinery often waste three-fourths of the metals. We helieve that nearly one-half of the quartz mills are idle from these causes. They have failed to save a sufficient quantity of the metal to pay expenses; the rock is pronounced worthless, the work ceases, and the stock goes down. These evils will be remedied in time. In some cases other parties have taken up the work, the machinery has been changed, and the rock is found to pay The result of thsse cbanges is giving confidsnce to our qnartz mining, consequently men more willingly venture their capital.

SONORA.

The town of Sonora, the county seat of Tuolumne county, is pleasantly situated in the centre nf an extensive mining region. It is the finest mountain town we have visited. Thers is considerable trade carried on here; many fine edifices, both public and private, have been constructed, and "her streets are paved with gold." This last assertion may be considered hyperbols; but a scientific man informed us, that by spreading a canvas in his yard, collecting the dust rising from the street, and washing it, he had obtained gold!

Meeting our friend, the Rev. Mr. Hill, we were introduced to Mr. Pitts, who is extensively engaged in mining, and Dr. Snell, one of the pioneers of California, and a man well versed in mineralogy and geology. Dr. Snell has spent his life in these studies, and having arrived to the age of four score years, we found him well stored with knowledge, such as we most desired to obtain. We spent some time in examining his extensive cabinet, and in interesting conversation after which we retired for the night, anticipating a pleasant morrow.

In the morning we started, in company with the Doctor, for Table Mountain. On the way we visited Peppermint Falls, where there are high cliffs of basalt. Walking a distance of three miles, and ascending a high eminence, brought us to the level summit of Table Mountain.

We were first introduced to what appeared to be an ancient crater. It is about one-half mile in diameter, filled with drift, and its surfaces a little lower than the surrounding level. A shaft has been sunk in the crater to the depth of nearly 100 feet, the bottom not having been reached. The character of the drift is the same the entire depth. The surrounding rock, of which the entire mountain is composed, is metamorphic.

Leaving the crater we passed on down the opposite side of the mountain, and visited several tunnels running into it. At the first we obtained some fine blocks of solidified wood. This wood was described to us as having been found in its natural upright position. When first met the trunk was cut off and the part above settled down; the trunk was again cut off, the part above again settled down, which process was repeated till the entire tree was taken out. Several trees have been taken out in this manner, they having the appearance of quietly standing there while the rock was carefully thrown up around them. The tunnels lower down the mountain seem to be following in an ancient river-bed. One of these tunnels penetrates the mountain for more than half a mile, running in under the edge of the crater, at which place it is over 300 feet below the surface. The drift taken out of this tunnel seems to be nearly of the same character as that taken from the other ancient river-beds or channels in this part of the State—gravel, clay, talc, etc. We were shown specimens of stone nicely carved and undoubtedly the work of man, which were said to have been taken out of one of these tunnels, placing the period nf this formation during the "stone age." We did not see the person who found these relics, but many here believe that they were taken from the heart of Table Mountain. We were, however, a little skeptical on that point.

After spending the day in viewing Tabls Mountain we retraced our steps and gladly sought rest, wondering, from our own fatigue, that a man eighty years of age could endure such a journey. We wished we could have spent more time in studying the strange formation ot this mountain, for it certainly is an interesting field for the geological student. On the following morning we again visited Dr. Snell's cabinet, and spent the greater part of the day there. When we left, the generous doctor loaded us down with specimens for our own cabinet, many of which were valuable and rare.

[To be Continued.]

Petroleum on the Plains.—Col. A. A. C. Williams of the first Nevada Cavalry says that at a point within five or six miles of Quaking Asp Station on the Overland route, about thirty miles from Fort Bridger, and ninety from Salt Lake, there are a number of very fine springs of petroleum. In one place about an acre of the soil is so strongly impregnated with the oil that it can he freely squeezed out with the hands, and a cane thrust down into it leaves a hole that will be filled with oil in a few moments. A trench has heen dug in this oil saturated spot from which the crude petroleum flows at the rate of from six to ten barrels per day. These springs are situated within five or six miles of the present surveyed route of the Pacific Railroad, and will at no distant day become very valuable. The existence of these springs has long heen known to the Indians, who often visit them in order to procure the oil for the purpose of bathing the chafed backs of their ponies.

Musical Rivalry.—The city of Boston has the largest organ in the United States. Boston occasionally alludes to the fact, which hurts the pride of New York. So New York is going to have a larger organ than Boston.

[Written for the Mining and Scientific Press.]

Notes of a Trip to the Mines of Lower California and Arizona.

NUMBER. II.

LOS ANGELES TO SAN BERNARDINO.

The country from Los Angelos to San Bernardino is quite level, and in many places very fertile; though not much cultivated. At Cocomongo there is a large vineyard, and much wine is made there. The San Gabriel river, one-half a mile wide, was the first of those rivers of California that in the dry season would be taken by strangers for a desert, which the writer had ever seen; but before long they became quite common; in fact we always crossed, with but two or three exceptions, rivers on dry land. On our left were ths mountains of the same name.

The first night out of Los Angeles I slept ont of doors for the first time in my life, and had it not been for the noise made by ths dogs and coyotes, should have enjoyed it. A very heavy dew fell, and I found it quite damp in the morning, hut felt no ill effects from it.

SAN BERNARDINO,

The only town of importance on the road to Arizona, *via* Camp Cady, is a place of about twelve hundred inhabitants, the business being mostly done by Jews. It is on the direct road from San Pedro to Salt Lake City, and its trade with that city is very large. Formerly it was occupied almost entirely by Mormons, but they have long since joined their lord and master, Brigham Young. Two crops a year are raised on the land in this vicinity, and the green fields seem intensified in color after crossing the dried-up plains.

LEAVING SAN BERNARDINO,

We commenced ascending the monntains, and soon were in Cajon Pass. At night camped at the Toll Gate. After supper, the first of my cooking, which consisted of quail, pigeons, fried bacon, potatoes and coffee, I laid myself down upon an India-rubber bed, filled with air; and here I would say that these beds are admirable things for camping, being easily filled when required for use. The next day we moved through the Pass, and found ourselves on the top of the Sierra Nevada. We had some fine scenery while traveling through the cañon—in many places there being only room for one team. It seemed as if natnre had made the gap for the purposes of travel. Immense rocks hung over the road, which seemed to have so little attachment to the walls that a sense of relief came over us when they were passed.

A walk in the early morning, up a rather steep grade, is very tiresome, and we were glad when we were on level ground. Continning on from here, the road lay through chapparel for some miles, and then we came out nn the first desert we had seen, and here a very singular tree—the yucca—met our eye.

THE YUCCA

Is a species of palm, growing from six to fifteen feet high, with a trunk from six to ten inches in diameter. Generally it has but two branches, yet, we saw some with four or five. The leaves, resembling the blade of a bayonet, hang down the sides of the trunk. The smaller trees, at a distance in the dark, might very easily he mistaken for Indians. This tree has a great deal of oil in it, and when dry burns easily. Travelers use it for their camp fires. Where fuel is needed for engines it will he a good generator of steam. There was also a bush or tree, about three feet high, which had no branches; the leaves, sword-shaped, and twenty inches in length, grew from the sides upwards; and as they died, turned downwards, presenting a very odd appearance. These were the only signs of vegetation, save here and there some little weed. About noon the first crossing of the Mohave river, which was here merely a little creek, was reached. The close of the afternoon gave us a most gorgeous sunset.

CAMP CADY.

After two more days of travel we reached Camp Cady, where ninety soldiers are stationed, under command of Captain West, for the pur-

pose of keeping the country free from Indians, and giving assistance to emigrants; but the commandant pays no attention to either party, as we ascertained from travelers and from our own observations. The soldiers are building adobe houses, and they will soon have quite a respectable settlement. The next day we reached

THE CAVES.

This locality obtained its name from its being a deep gorge, the earthy sides of which are pierced by innumerable caves. A ride through by moonlight affords fine scenery; it does not require a very great stretch of the imagination to see magnificent cathedrals, castles, and, in fact, architecture of every description.

Here commenced our troubles; for the weather being very warm, our thirst was greatly increased, and we could find no water to quench it, all being strongly alkaline. If we attempted to sleep we could not, for a fly, about three-quarters of an inch in length, kept up a continual buzzing around us, and when an opportunity offered, would bite unmercifully. Our stay there was not long, and we traveled all night to reach Salt Lake.

LACK OF WATER.

In the road we dug up some water which the driver had casked some weeks before. The teamsters are obliged to fill casks with good water, and hide it in the sand, for their return trip between the lake and the caves. Though that which we exhumed tasted very strong of sulphur, (having been putrid, and then becoming sweet,) we drank it with a relish. We could quench our thirst at Soda Lake, for we found a soda spring, the water of which, though not so good as we could wish for, was very palatable, and had it been cold, with a little syrup, would have tasted well. Our enemies, the flies, still troubled us here. A bath in the spring was delightful, the water being very soft.

SODA LAKE

Is about five miles in width and twenty in length—is but a valley covered with soda; to us it looked as though a light snow had fallen through the night. Had there not been heavy rains, we should have obtained some fine crystals of soda. On account of the rains we had to go around instead of across it, as it was very miry, some teams having been mired in the attempt to cross. Our next station after passing over a desert was Morrel Springs, the water of which is strongly impregnated with iron; but we contented ourselves with it, for we were told that we should find pure spring water at Rock Springs, and on tasting it pronounced it the best we had ever drank. If any one knew how to appreciate it, we did.

THE MINES.

Since reaching the summit of the Sierra Nevada, the roads have been through a heavy sand, which is very hard on loaded teams. It was at this point, Rock Springs, that we came upon the first mining locality to be met with on this route. It lies near the Providence Mountains, and is about 4,800 feet above the level of the sea. We examined the first lead—"Donna Carolina"—which was opened in this vicinity. It is quite narrow, not very rich in silver, and was soon abandoned. Had it been worked deeper, there might have been found enough of the precious metal to pay. Passing over to the Macedonian district, which lies in a spur of the same mountains, better signs of silver presented themselves. The topography was made up of high ragged mountains, almost devoid of trees, though more than in many mining regions. The trees consist of the shrub, cedar, and piñon pine—the latter large enough to be used for timbering in the mines. Upon the adjacent plains the yucca grows in great abundance, and will furnish sufficient fuel for years. Tuft-grass grows nearly all the year, and in large quantities, furnishing fodder for such animals as might be required in opening the mines. Water can be obtained by digging two or three feet, wherever a weed called water-weed is found, and by blasting it might be obtained in abundance.

I saw many fine croppings of mineral, which are said to assay from $20 to $120 in silver to the ton, and from $15 to $20 in gold. Some of the ore that is rich in silver will assay from eight to twenty per cent. of copper. The leads run in a northerly direction, dipping to the east, some of them lying between granite and marble walls. None of these have been worked to any extent, but short tunnels have been run, which give good prospects. There are other districts in the vicinity, the leads of which are well spoken of, but I did not visit them. Silver Mountain contains some very rich leads, but they have not been opened. It is thought that the cereals and vegetables can be raised on the plains.

FORT MOHAVE.

Forty-six miles of horseback travel found us at Fort Mohave, in Arizona. The road leading there is very good, with the exception of that over Piuto Hill, which is in a miserable condition. The hill is very steep, and full of immense boulders. A better road might be built around the hill at a small cost. The Colorado river, at Fort Mohave, looks like the river at Sacramento, and is crossed by a hand ferry. Fort Mohave is garrisoned by one company of ninety soldiers. They live in adobe houses, just back from the river bank. The town in which the citizens live has a dozen houses, all adobe. We found it very hot, the thermometer standing in the shade at 115°. They told us that was cold, compared with some of their weather! The Indians are the Mohaves, and are quite peaceable, doing nothing worse than stealing. They are never troublesome to the miners, either here or in the districts visited in Lower California. Our destination was the San Francisco district, which lies about twelve miles in the interior, and contains some very fine leads, of which we visited three—the Moss, Dayton, and Bella Union. Here, as in the Providences Mountains, we found nothing but rugged, barren scenery. There are no trees to be seen, the absence of which is one great disadvantage of the district. Good timber, it is said, can be obtained high up the river. Water, we were informed, is easily obtained.

THE MOSS LEAD

Has been worked more than any other, and is very rich in gold. Short tunnels have been run into it, from which they are taking good ore; a shaft some seventy feet in depth has been sunk, but at the time of our visit work was entirely suspended. Mr. Hardee, the founder of the town of Hardeeville, we understood, had a small mill, and was negotiating for some of the ore to work in his mill. Could the mine be controlled by a few persons it would pay handsomely to work it.

The "Dayton" is a silver lead, upon which a shaft, about fifty feet in depth, has been sunk. Fine specimens of ore are taken from it, and it must prove a valuable mine. No work was being done on it. The "Bella Union" has not had any shaft sunk upon it. The croppings show good indications. The ores consist mostly of sulphurets of silver. In the "Dayton" mine in Arizona, the chloride, in the form of horn silver, has been found in some quantities.

TRANSPORTATION.

Freight to Fort Mohave, by the way of Los Angeles, from San Francisco, will be about twelve cents per pound. Very soon there is to be a regular line of vessels and steaming from San Francisco, leaving there the first of every month, making the connection at the month of the river. Freight to the fort will be from $65 to $75 per ton. Navigation is not impeded at any time during the year by low water. They have barges that will carry from 120 to 140 tons to the fort, and 100 tons to the head of navigation. Some vegetables are being raised on the low lands, and much more might be raised if the people were not so lazy. With plenty of capital in the several districts which I visited, the mines must prove remunerative.

OUR RETURN

To Los Angeles was much quicker than the trip out. We hoped to be able to reach there so as to take the steamer Pacific to San Francisco; but we could not, and left on a Friday morning, at half-past three, in the Overland stage, reaching San Francisco on the following Monday, traveling all the time, but Saturday night passing on our way through Santa Barbara, San Benventura, San Luis Obispo, the Warm Springs, and San Jose. The ride along the coast was quite pleasant; but the most of the journey was very hard, the stage being crowded, having three on a seat the most of the time. We would advise persons going to or returning from Los Angeles, to take the steamer and enjoy themselves. To be sure, a great extent of country is seen by the Overland route, but it hardly pays. Though life in the mountains has its pleasures, it seemed like living to get back to the city again.

LEON T. HARVEY, M. D.

A CALCULATING HEN.—The Canton, Mo., *Press* is responsible for the following, which is certainly different from any hen performances in these parts. Our hens are ambitious to sit as extensively as possible: "A few days ago, a hen was found on a neighboring farm, incubating upon a nest of five eggs. Considering that too small an undertaking for a full-grown hen, the owner removed these and placed thirteen fresh eggs in the nest. On examination soon after, it was discovered that the old biddy had deliberately rolled out eight, thus refusing to cover more than the original number. Four times the experiment was repeated, with a similar result, and the obstinate hen was finally left to her select number, thus furnishing evidence not only of her reasoning powers, but of true feminine spunk."

RED CHALK has been discovered in Kansas. Some workmen were excavating for a building at Leavenworth, and struck a strata of this mineral.

Oil Items.

The vertical bitumen lode, at Cairo, still attracts great attention. This lode is situated on McFarland's Run, a small tributary of the South fork of Hughes River, about eight miles from Cairo Station, and twenty miles east of Parkersburg. The mineral has been traced one and a half miles in a line running south, 75 degrees east. The lode is five feet wide.

The Crowell Petroleum company, of New York, are pumping the finest lubricating oil from their new well in Frederick, Trumbull county. It sells in the neighborhood for $40 per barrel.

A BIG OIL STRIKE IN KENTUCKY.—The Louisville *Democrat* of August 13th, says that one of the greatest oil strikes in the United States, is that which occurred a few days ago in Cumberland county, Kentucky, in which the New York and Kentucky Oil company struck oil at the mouth of Crocus Creek, and that the well, on the 8th (the day oil was struck) was flowing at least 1,000 barrels per day; that some persons who saw it estimated it even as high as 3,000 barrels per day. Some idea can be formed when he says it was flowing a stream sometimes from five to six feet high, through an eight inch square, and flowing pure oil.

TITLES TO OIL LANDS.—In consequence of the loose manner in which business was transacted pertaining to the transfer of real estate in Venango county, Penn., where the lands were of little value, there has, now that the oil region has become so valuable, arisen great embarrassment as to the validity of titles. Real estate litigation is rapidly increasing, and millions of property are in dispute. This should prove a useful hint to California oil-seekers, and lead them to perfect their titles ere expending much money in the development of other claims.

It is generally considered probable that neither coal nor petroleum was produced the one from the other; but that both are the products of organic decomposition, the difference in the results being due to the different conditions under which the decomposition took place.

THE LOSS OF THE ALEXANDRIAN LIBRARY A BLESSING.—Scholars and artists have mourned for ages over the almost universal destruction of the works of ancient genius. The Alexandrian library is believed to have contained a greater treasure of intellectual riches than has ever since been hoarded in a single city. These, we know, have all vanished from the earth. It furnished fuel for years for the baths of illiterate Moslems. I used myself frequently to wonder why it pleased God to blot out of existence these products of ancient genius. But the solution of this mystery is found, I think, in the remains of Herculaneum and Pompeii. We there discover that every work of man was so penetrated by corruption, every production of genius so defiled with uncleanness, that God, in introducing a better dispensation, determined to cleanse the world from the pollution of preceding ages. As, when all flesh had corrupted His way, He purified the world by the waters of a flood, so, when genius had covered the earth with images of sins, He overwhelmed the works of ancient civilization with a deluge of barbarism, and consigned the most splendid monuments of literature and art to almost universal oblivion. It was too bad to exist, and He swept it away with the besom of destruction.—*Dr. Wayland.*

A SUBLIME TRUTH.—A late number of the New York *Methodist* contains a full report of an admirable address made by Bishop James, of the Methodist Episcopal Church, before the English Wesleyan Conference, at its recent session at Birmingham. In the course of his address, which was a brief review of the history of American Methodism, the Bishop paid this tribute to the institutions of his country:

"In the United States, both in Church and State, we have learned to trust the people, and neither in Church nor State have the people proved themselves unworthy of any great trust committed to them. Laying responsibilities on intelligent masses has the same effect as putting them upon individuals—it makes them conservative."

BARKING OF DOGS.—Dogs in a state of nature never bark; they simply whine, howl and growl; this explosive noise is only found among those which are domesticated. Soanini speaks of the shepherds' dogs in the wilds of Egypt as not having this faculty; and Columbus found the dogs which he had previously carried to America to have lost their propensity for barking. The ancients were aware of this circumstance. Isaiah compares the blind watchmen of Israel to these animals: "They are dumb—they cannot bark." But on the contrary, David compares the noise of his enemies to the "dogs round the city." Hence the barking of a dog is an acquired faculty, an effort to speak which he derives from his associating with man.

NATURE'S PROGRESS LIMITED.—It is often remarked how few of the distinguished men of earth leave heirs to their name and fame. This is true; not only of those who have become distinguished as warriors and statesmen, but is equally common, if not more so, among those who have attained purely literary fame. Every reflective reader will readily call to mind numerous instances in our own country. But, perhaps, the most noticeable facts in this connection may be found in the consideration of how few of the poets of the last two centuries have bequeathed their name through descendants. Cowley, Butler, Otway, Prior, Congreve, Gay, Phillips, Savage, Collins, Thompson, Shenstone, Akenside, Goldsmith, and Gray, died childless. Pope, Swift, Watts, and Cooper were unmarried, and Johnson was childless. The descendants of Dryden, Addison, and Parnell did not pass to the second generation; those of Shakspeare and Milton became extinct in the second and third. Hugh Miller regards this portion of literary history as an illustration of Doubleday's curious theory of population. The human mind attained in these remarkable men is full of development, as the rose or carnation under a long course of culture, at length suddenly *stocks*, and doubles and widens its gorgeous blossoms of a thousand petals; and when in its greatest perfection, transmission ceases, and there is no further production of the variety thus amplified and expanded to the full. Nature does her utmost, and then stopping short—does no more.

HINTS ABOUT HEALTH.—Intense thirst is satisfied by wading in water, or by keeping the clothing saturated with water, even if it is taken from the sea.

Water cannot satisfy the thirst which attends cholera, dysentery diarrhœa, and some other forms of disease; in fact, drinking cold water seems to increase the thirst, and induce other disagreeable sensations; but this thirst will be perfectly and pleasantly subdued by eating a comparatively small amount of ice, swallowing it in as large pieces as practicable, and as much as is wanted.

Inflammations are more safely and far more agreeably subdued by the application of warm water than of cold.

No man can possibly sink if the head is thrust entirely under water, and in this position a novice can swim as easily as walk, and get to shore readily by lifting the head at intervals for breath.

Hartshorn—the common spirits—is a good and convenient remedy for common bites. Always take it with you in traveling.—*Hall's Journal.*

INTERESTING CHEMICAL FACTS.—A platina crucible is made and maintained red hot over a large spirit lamp. Some sulphurous acid is poured into it. The acid, though at common temperature one of the most volatile of known bodies, possesses the singular property of remaining fixed in the red-hot crucible, and not a drop of it evaporates; in fact it is not in contact with the crucible, but has an atmosphere of its own interposed. A few drops of water are now added to the sulphurous acid in the red-hot crucible. The diluted acid gets into immediate contact with the heated metal, instantly flashes off, and such is the rapidity and energy of the evaporation that the water remains behind and is frozen into a lump of ice in a hot crucible from which, seizing the moment before it again melts, it may be thrown out before the eyes of the astonished observer. This is indeed "a piece of natural magic" and as much like a miracle as any operation of the forces of nature could produce. It is certainly one of the most singularly beautiful experiments imaginable. It was devised by a French savan to illustrate the repellant power of heat radiating from bodies at a high temperature, and of the rapid abstraction of heat produced by evaporation.

CALIFORNIA MINERAL YIELD.—The Virginia *Enterprise* truly says, California yields gold from Yuba, Butte, Shasta, Siskiyou, Trinity, Sierra, Plumas, Nevada, Placer, El Dorado, Amador, Calaveras, Tuolumne, Merced and Mariposa; silver abounds in Alpine and Mono; copper in Calaveras, Santa Clara, Plumas, Amador, Mariposa and Stanislaus; coal in Contra Costa; quicksilver in Santa Clara and Napa; borax in Lake; petroleum in Santa Barbara, Los Angeles, Humboldt, Colusa and Tulare. And now the long felt void is filled by the discovery of well defined ledges of iron in Sierra.

BLAST FURNACE EXPLODED.—On the 2d inst., the blast furnace at Fort Edward blew up with a terrific explosion, destroying nearly everything pertaining to the furnace except the tall brick chimney. Although workmen were present when the explosion took place, none of them were injured. The loss will reach $15,000. The furnace was owned by John A. Griswold and others, of Troy, New York.

SALES OF THE WEEK
BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, October 14.

120 shs Ophir at 400 per foot, b 30.
60 shs Ophir at 390 per foot.
48 shs Ophir at 395 per foot.
00 shs Ophir at 392½ per foot, s 3.
12 shs Ophir at 405 per share, b 30.
84 shs Ophir at 392½ per foot.
108 shs Ophir at 390 per foot, s 3.
60 shs Ophir at 400 per foot, 30 d.
3 shs Savage at 1005 per foot.
1 shs Savage at 1010 per foot, b 30.
2 shs Hale & Norcross at 425 per toot.
6 shs Hale & Norcross at 415 per foot.
28 shs Hale & Norcross at 412½ per foot.
2 shs Hale & Norcross at 425 per foot, b 30.
8 shs Hale & Norcross at 420 per foot, b 30.
2 shs Hale & Norcross at 410 per foot.
2 shs Hale & Norcross at 405 per foot.
40 shs Dancy at 26 per foot.
80 shs Daney at 25 per foot.
4 shs Oould & Curry at 1070 per foot.
4 shs Oould & Curry at 1025 per foot, s 30.
1 sh Yellow Jacket at 1075 per foot.
2 shs Yellow Jacket at 1070 per foot.
3 shs Yellow Jaoket at 1065 per foot.
1 shs Yellow Jacket at 1030 per foot, s 30.
1 sh Yellow Jacket at 1055 per foot.
2 shs Yellow Jacket at 1065 per foot, b 3.
1 sh Yellow Jacket at 1062½ per foot.
1 sh Yellow Jacket at 1060 per foot.
2 shs Yellow Jacket at 1750 per foot, b 30..
3 shs Belcher at 590 per foot.
15 shs Belcher at 600 per foot.
4 shs Chollar at 430 per foot.
20 shs Chollar at 430 per foot, b 30.
60 shs Chollar at 450 per foot, b 30.
20 shs Chollar at 451 oer foot, b 30.
108 shs Chollar at 440 per foot.
4 shs Chollar at 435 per foot, s 3.
28 shs Chollar at 442½ per foot.
20 shs Chollar at 445 per foot.
16 shs Potosi at 415 per foot.
10 shs Potosi at 420 per loot, b 10.
4 shs Potosi at 420 per foot.
40 shs Potosi at 420 per foot, b 3.
10 shs Potosi at 432¼ per foot, b 30.
20 shs Potosi at 435 per foot, b 30.
4 shs Alpha, G. H., at 1470 per foot.
4 shs Alpha, G. H., at 1470 per foot, b 30.
4 shs Alpha G, H., at 1450 per foot, b 5.
10 shs Imperial at 195 per share.
10 shs Imperial at 196 per share.
10 shs Imperial at 205 per share, b 3.
8 shs Imperial at 205 per share, r w.
10 shs Imperial at 207½ per share. b10.
10 shs Imperial at 207 per share.
20 shs Imperial at 207½ per share.
5 shs Imperial at 205 per share. s10.
40 shs Imperial at 200 per share, s 30.
5 shs Imperial at 207½ per share, b 10.
20 shs Imperial at 203 per share.
10 shs Bullion at 110 per share.
5 shs Bullion at 115 per share, b 30.
10 shs Bullion at 107 per share, s 10.
5 shs Bullion at 107½ per share.
20 shs Bullion at 110 per share, b 15.
3 shs Sierra Nevada at 18 per share.
15 shs Sierra Nevada at 19 per share.
8 shs Empire Mill & Mining Co. at 200.
30 shs Empire M. & M. Co. at 200, b 5.
5 shs Empire M & M Co. at 195 per sh, s 30.
3 shs Empire M & M Co. at 200 per sh, b 30.
10 shs Empire M & M Co. at 200, at 30 d.
5 shs Cal S Nav Co at 75 per cent, s 30.
1 shs Cal. Steam Nav. Co. at 75½ per cent.
Amount of sales.....$157,082 00

Monday, October 16.

264 shs Ophir at 390@395 per foot.
12 shs Opbir at 390 per foot, s 3.
3 shs Savago at 1010@1025 per foot.
52 shs Chollar at 435@469 per foot.
16 shs Potosi at 430@432 per foot.
10 shs Potosi at 450 per foot, b 30.
16 shs Alpha, G H, at 1500@1495 per ft, b 27.
13 shs Yellow Jacket at 1060@1050 per foot
7 shs Yellow Jaokot at 1062½@1067½, b 30.
1 sh Yellow Jacket at 1080 per foot, s10.
3 shs Crown Point at 900 per foot.
6 shs Beleber at 500 per foot, s 3.
6 shs Hale & Norcross at 360@350 per sb.
4 shs Daney at 24 per share.
40 shs Imperial at 200 per share, s 30.
113 shs Imperial at 205@201 per share.
5 shs Imperial at 207¾ per share, b 10.
5 shs Imperial at 202¾ per share, s I0.
40 shs Bullion at 105@104 per share, b 30.
40 shs Bullion at 101@98 per share.
3 shs Overman at 107 per foot.
3 shs Confidence at 77½ per share.
40 shs Caledonia Tunnel at 6@5¾ per share
1 sh Cal Steam Nav Co at 73 per ct, s 10.
11 shs Cal S Nav Co at 73@74¾ per ct, s 30.
10 shs N. S. F. Homestead at 18 per share.

AFTERNOON SESSION.

8 shs Ould & Curry at 1060@1070 per foot.
9 shs Yellow Jacket at 1050@1045 pr foot.
2 shs Yellow Jacket at 1060 per foot, b10.
1 sh Savage at 1025 per foot.
3 shs Belcher at 593 per foot.
10 shs Potosi at 440¼ per foot.
24 shs Ophir at 390 per foot, s 3.
36 shs Ophir at 395@420 per foot.
14 shs Ophir at 405 per foot, b 5.
12 shs Ophir at 405 per foot, s 30.
23 shs Hale & Norcross at 380@375 per foot.
4 shs Halo & Norcross at 365 per foot, s 3.
53 shs Imperial at 202@202 per share.
10 shs Imperial at 201 per share, s 10.
10 shs Imperial at 202¾ per share, s 3.
5 shs Imperial at 204 per share, b 3.
3 shs Overman at 110 per foot.
7 shs Empire M & M Co. at 195@190.
103¾ shs Exchequer at 17@17¾ per share.
20 shs Exchequer at 16¾ per share, s 30.
10 shs Sierra Nevada at 18 per share, s 30.
10 shs Caledonia Tunnel at 6 per share.
5 shs Cal. Steam Nav. Co. at 73¾ p ct, s 5.
1 sh Cal. Steam Nav. Co. at 73¾ p ct, s 30.
Amount of sales.....$182,663 00

Tuesday, October 17.

48 shs Ophir at 420 per foot.
12 shs Ophir at 435 per foot.
168 shs Ophir at 450 per foot.
60 shs Ophir at 440 per foot, s 10.
12 shs Ophir at 440 per foot, s 3.
24 shs Ophir at 445 per foot.
24 shs Ophir at 450 per foot, s 3.
12 shs Opbir at 450 per share, s 30.
20 shs Chollar at 400 per foot, b 30.
16 shs Chollar at 450 per foot.
10 shs Potosi at 440 per foot.
30 shs Potosi at 435 per foot.
24 shs Potosi at 430 per foot.
25 shs Potosi at 431 per foot.
20 shs Potosi at 430 per foot, s 3.
10 shs Potosi at 450 per foot, b 20.
4 shs Potosi at 432¼ per share.
10 shs Potosi at 445 per foot, b 30.
5 shs Uncle Sam at 111¾ per share.
1 sh Savage at 1050 per foot.
1 sh Savage at 1015 per foot, b 30.
1 sh Savage at 1060 per foot.
3 shs Belcher at 595 per foot.
3 shs Belcher at 590 per foot, s 3.
4 shs Alpha, G. H., at 1400 per foot, r w.
4 shs Alpha, G H, at 1475 per foot, b 30.
4 shs Alpha, O. H., at 1400 per foot, s 30.
16 shs Alpha, G. H., at 1425 per toot, b 20.
8 shs Alpha, G. H., at 1375 per foot, b 3.
8 shs Alpba, G H, at 1400 per foot, b 20.
3 shs Yellow Jacket at 1040 per foot.
5 shs Yellow Jacket at 1035 per foot.
2 shs Yellow Jacket at 1030 per foot.
1 sh Yellow Jacket at 1025 per foot, s 3.
2 shs Yellow Jacket at 1025 per foot.
1 sh Yellow Jacket at 1020 per foot.
2 shs Yellow Jacket at 1010 per foot, r w.
1 sh Yellow Jaoket at 1025 per foot, b 10.
4 shs Yellow Jacket at 1015 per foot.
1 sh Yellow Jackot at 1040 per foot, b 30.
2 shs Yellow Jacket at 1015 per foot, b 3.
2 shs Hale & Norcross at 350 per foot.
2 shs Hale & Norcross at 375 per foot.
4 shs Gould & Curry at 1060 per foot.
5 shs Sierra Nevada at 20 per share.
5 shs Imperial at 210 per share, r w.
25 shs Imperial at 208 per share.
5 shs Imperial at 206 per share, r w.
10 shs Imperial at 206 per share.
5 shs Imperial at 202½ per share, s 30.
10 shs Imperial at 209 per share, r w.
10 shs Exchequer, at 18¼ per share.
5 shs Bullion at 100 per share.
10 shs Bullion at 98 per share, r w.
10 shs Bullion at 102½ per share, b 30.
40 shs Bullion at 100 per share.
6 shs Empire M & M Co. at 190 per share.
5 shs Empire M. & M. Co. at 187¾ per sh.
20 shs Spring Valley W W at 50½ per cent.
4 shs Cal S Nav Co at 74 per cent.
2 shs Cal S Nav Co at 73¾ per cent, r w.
1 sh Cal. Steam Nav. Co. at 73 p ct., s 30.
$ 1,000 Legal Tender Notes at 71¾ per cent.

AFTERNOON SESSION.

36 shs Ophir at 435 per foot, s 3.
24 shs Ophir at 440 per foot, s 5.
8 shs Potosi at 435 per foot.
4 shs Chollar at 450 per foot.
4 shs Chollar at 455 per foot, s 3.
20 shs Chollar at 450 per foot, s 30.
2 shs Halo & Norcross at 365 per foot.
2 shs Hale & Norcross at 360 per foot.
8 shs Alpha, G. H., at 1325 per foot.
4 shs Alpha, G H, at 1300 per foot.
4 shs Alpha, G. H., at 1300 per toot, s 3.
2 shs Savage at 1090 per foot.
10 shs Exchequer at 18 per share, s 3.
10 shs Exchequer at 18 per share.
5 shs Empire M. & M. Co. at 185, b 3.
5 shs Overman at 110 per foot, s 3.
2 shs Overman at 111 per share, r w.
25 shs Imperial at 205 per share, s 30.
2 shs Imperial at 212½ per share.
15 shs Imperial at 205 per share, s 10.
20 shs Imperial at 208 per share.
10 shs Imperial at 205 per share, s 15.
5 shs Imperial at 207 per share.
2 shs Confidence at 80 per share, s 3.
10 shs Sierra Nevada at 17 per share, s 30.
1 sh Cal Steam Nav Co at 73¼ per cent.
3 shs Cal Steam Nav Co at 73c per cent.
Amount of sales.....$176,820 00

Wednesday, October 18.

36 shs Ophir at 440 per foot.
6 shs Ophir at 435 per foot.
24 shs Ophir at 445 per foot.
12 shs Ophir at 445 per foot, s 10.
12 shs Ophir at 435 per foot, s 30.
132 shs Ophir at 440 per share, s 30.
12 shs Ophir at 440 per foot, b 3.
12 shs Ophir at 440 per share, s 3.
2 shs Savage at 1090 per foot, r w.
2 shs Savage at 1090 per foot, b 3.
4 shs Chollar at 452½ per foot.
20 shs Chollar at 470 per foot, b 30.
20 shs Chollar at 455 per foot, b 30.
20 shs Chollar at 440 per foot, b 25.
12 shs Alpha, G. H., at 1360 per foot
4 shs Alpha, G. H., at 1300 per ft, b 20.
8 shs Alpha, G. H., at 1750 per foot.
4 shs Alpha, O H, at 1160 per foot.
1 sh Yellow Jacket at 1020 per foot.
1 sh Yellow Jacket at 1010 per foot.
3 shs Yellow Jacket at 1000 per foot.
1 sh Yellow Jacket at 1000 per foot, b 3.
1 sh Yellow Jacket at 1000 per foot, b 10.
2 shs Yellow Jacket at 995 per foot.
3 shs Yellow Jacket at 990 per foot, b 5.
3 shs Yellow Jacket at 990 per foot.
3 shs Yellow Jacket at 985 per foot.
5 shs Yellow Jacket at 1000 per foot, b 30.
1 sh Yellow Jacket at 950 per foot.
8 shs Overman at 106 per foot.
6 shs Overman at 105 per foot.
6 shs Hale & Norcross at 350 per foot.
2 shs Hale & Norcross at 340 per foot.
6 shs Hale & Norcross at 335 per foot.
6 shs Belcber at 570 per foot.
10 shs Potosi at 410 per foot.
5 shs Imperial at 205 per share, b 10.
10 shs Imperial at 200 per share, s 30.
5 shs Imperial at 202 per share.
5 shs Imperial at 202 per share.
5 shs Imperial at 201 per share.
83 shs Imperial at 200 per share.
10 shs Imperial at 198 per share, s 3.
5 shs Imperial at 198 per share.
5 shs Imperial at 197 per share.
55 shs Imperial at 200 per share, b 80.
5 shs Imperial at 200 per share, b 20.
11 shs N. American, Ex Sam, at 18¾ per sh
20 shs Sierra Nevada at 17 per share.
2 shs Bullion at 97 per share.
5 shs Bullion at 95 per share.
5 shs Bullion at 95 per share, b 30.
5 shs Bullion at 90 per sharo
6 shs Bullion, at 00 per share, b 30.
2 shs Cal Steam Nav Co at 72¾ der cent.
1 sh Cal Steam Nav Co at 73 per cent.
5 shs Cal Steam Nav Co at 72¾ per cent.
Amount of sales.....$136,638 00

Thursday, October 19.

120 shs Ophir at 420 per foot, s 30.
60 shs Ophir at 430 per foot.
12 shs Ophir at 415 per foot.
48 shs Ophir at 415 per foot, s 10.
36 shs Ophir at 410 per foot.
24 shs Ophir at 412½ per foot ,s 10.
10 shs Overman at 110 per foot, b 30.
3 shs Overman at 100 per foot.
5 shs Overman at 107½ per foot, b 30.
5 shs Overman at 110 per foot, b 30.
5 shs Overman at 105 per foot.
10 shs Overman at 106@100 per foot.
3 shs Belcher at 520 per foot.
3 shs Belcher at 525 per toot.
3 shs Belcher at 530 per foot
5 shs Belcher at 500 per foot, s 3.
20 shs Gould & Curry at 1050 per foot.
4 shs Gould & Curry at 1025 per foot, s 30.
1 sh Yellow Jacket at 970 per foot, b 30.
1 sh Yellow Jacket at 925 per foot.
1 sh Yellow Jacket at 930 per foot, b 30.
1 sh Yellow Jacket at 920 per foot.
1 sh Yellow Jacket at 925 per toot, b 30.
20 shs Alpha, G H, at 1100 per foot
4 shs Alpha, O H, at 1050 per foot.
12 shs Chollar at 420 per foot.
4 shs Chollar at 420 per foot.
4 shs Chollar at 410 per foot.
20 shs Chollar at 405 per foot, s 3.
20 shs Chollar at 407 per foot.
40 shs Chollar at 403 per foot.
100 shs Chollar at 420 per foot, b 30.
12 shs Chollar at 407½ per foot, s 3.
24 shs Chollar at 406 per foot,s 3.
10 shs Potosi at 395 per foot, b 5.
10 shs Potosi at 390 per foot, b 5.
4 shs Potosi at 394 per toot.
10 shs Potosi at 390 per foot, b 10.
4 shs Hale & Norcross at 320 per foot.
2 shs Hall & Norcross at 322½ per foot.
2 shs Hale & Norcross at 325 per foot.
2 shs Hale & Norcross at 327½ per ft, b 3.
4 shs Crown Point at 750 per foot.
5 shs Imperial at 192½ per share.
7 shs Imperial at 193 per share.
5 shs Imperial at 192½ per share, s 3.
16 shs Imperial at 192 per share, r w.
10 shs Imperial at 195 per share, b 30.
20 shs Imperial at 190 per share.
15 shs Imperial at 191 per sharo.
20 shs Imperial at 191 per share, r w.
17 shs Imperial at 191 per share, s 5.
7 shs Imperial at 191 per share, s 3.
10 shs Imperial at 189 per share.
5 shs Imperial at 188½ per share.
20 shs Sierra Nevada at 16½ per sbaro.
20 shs Sierra Nevada at 16 per sbaro.
5 shs Bullion at 90 per sharo.
10 shs Bullion at 90 per share, b 30.
1 shs Bullion at 87½ per share.
20 shs Bullion at 90 per share.
5 shs Empire M & M Co. at 162½ p. sh, s 3.
$10,000 Legal Tender Notes at 71¾ per cent.

AFTERNOON SESSION.

84 shs Opbir at 400 per foot, r w.
48 shs Ophir at 400 per foot.
4 shs Alpha, G. H., at 1100 per foot.
12 shs Alpha at 1115@1125 per foot.
10 shs Potosi at 385 per foot, b 10,
4 shs Potosi at 380 per foot.
14 shs Potosi at 375 per foot.
2 shs Potosi at 372½ per loot,
4 shs Potosi at 370 per foot, s 3.
36 shs Potosi at 370 per foot.
2 shs Potosi at 367½ per foot.
2 shs Potosi at 365 per foot.
2 shs Potosi at 360½ per loot.
12 shs Daney at 30 per share.
5 shs Avermsn at 105 per foot, s 3.
5 shs Overman at 105 per foot.
35 shs Overman at 110 per foot, b30.
20 shs Chollar at 395 per foot.
8 shs Chollar at 390 per foot.
12 shs Chollar at 385 per foot.
20 shs Chollar at 385 per foot, s 3.
20 shs Chollar at 385 per foot, s 10.
8 shs Chollar at 385 per foot, s 5.
2 shs Savage at 1050 per foot, b 30.
1 sh Savage at 1030 per foot.
1 sh Savage at 1040 per foot, b 30.
1sh Savage at 1000 per foot.
1 sh Yellow Jacket at 900 per foot.
4 shs Yellow Jacket at 880@870 per foot.
1 sh Yellow Jacket at 850 per foot, s 30.
1 sh Confidence at 85 per share, r w.
1 sh Confidence at 85 per share, b30.
20 shs Imperial at 187½@186 per sharo.
10 shs Imperial at 186 per share, s 3.
15 shs Imperial at 184 per sharo.
5 shs Imperial at 184 per share, b3.
5 shs Imperial at 183 per share.
4 shs Imperial at 180 per share, s 3.
15 shs Imperial at 181 per share.
10 shs Imperial at 180 per share, b 30.
20 shs Bullion at 80 per share.
5 shs Bullion at 75 per share.
30 shs Sierra Nevada at 15 per share.
80 shs Sierra Nevada at 15@14 per share, s 3
1 sh Empire M & M Co. at 162½ per sh, s 3
Amount of sales.....$182,134 00

Friday, October 20.

252 shs Ophir at 395@390 per toot.
48 shs Ophir at 352½@393 per foot.
72 shs Ophir at 390 per foot.
24 shs Chollar at 380@375 per foot.
5 shs Bullion at 70 per share.
4 shs Gould & Curry at 1040 per foot.
40 shs Sierra Nevada at 12¾ per share.
67 shs Imperial at 180@175 per sbare.
20 shs Imperial at 188 per share, b 30.
65 shs Imperial at 175@174 per sbare.
5 shs Imperial at 172½ per share, s 30.
68 shs Potosi at 360@350 per foot.
20 shs Hale & Norcross at 325@320 per foot.
5 shs Belcher at 400 per foot.
4 shs Savage at 990@950 per foot.
2 shs Savage at 990 per foot, b 30.
36 shs Alpha, G. H., at 1110@1090 per foot.
5 shs Empire M & M Co. at 175 per shara.
16 shs Yellow Jacket at 825@790 der foot.
5 shs Overman at 103 per foot.

AFTERNOON SESSION.

18 shs Imperial at 172½@175 per share.
52 shs Belcher at 390@405 per foot.
120 shs Ophir at 385@380 per foot.
14 shs Yellow Jacket at 700@720 per foot.
4 shs Gould & Curry at 1015 per foot.
18 shs Overman at 100 per foot.
36 shs Empire M & M Co. at 150@160,.
16 shs Potosi at 350@355 per foot.
10 shs Hale & Norcross at 335@320 per foot.
5 shs Chollar at 370 per foot.
220 shs Exchequer at 15 per share.
45 shs Bullion at 70 per share.
22 shs N. American, Ex Sam, at 17 per sh.
Amount of sales.....$129,820 00

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, October 21st, 1865.

The moncy market is well supplied with available capital, but rather more activity may be observed aad bankers meet with no difficulty in effecting loans upon first-class business paper and satisfactory collaterals, at 1@1¼ ₱ cent. per month. A steady requirement in mercantile circles, mainly for speculative purposes, has prevailed for some time past, and among stock dealers there is little or no abatemeut of the pressure alluded to last week.

Receipts of Treasure from domestic sources, during the week, amounted to $950,000, making an aggregate of $3,100,000 since the 1st inst. Bullion has been in fair request, and sales of gold bars were made at 855@865. Silver is quotablo at par to 1 ₱ ceut. premium—the latter for bars of high grade.

The following figures servc to show in some degree the currency movement of the past nine months :

Coin remitted to the interior	$8,725,858
Coin received from the interior	3,773,389
Added to interior circulatiou	$4,952,469

The expenditurcs and disbursements of the Government oa this coast continuc to form an important feature in fiscal matters. The amount disbursed during the past nine months eadiug September 30th, exceeded $12,500,000, and the income of the Governmeut for the same period, from all sources, amounted to $8,000,000.

The total value of the gold and silvcr bullion coined at the Branch Mint in this city, during the past uinc months, amounted to nearly *seven million dollars*.

The serious depression, incident to all stocks last week, still continues, and the market has presentcd a very cheerless vicw the past day or two, with a slight rally, however, in some shares at the close. Considerable stock has been sold this weck to caver advaaces, and in many instances those who were uuable to respond promptly, have beea sold out without much regard to the losses sustained. This hypothecated stock will now pass into the hands of stronger holders.

Alpha, owing, it is said, to the poverty of the ores reduced lately, and to unfavorable developments in the upper portion of the minc, has been in much less favor, receding from $1,900 to $1,050, theu selling at $1,110@$1,090, and closing ycsterday at $1,000 bid.

Yellow Jacket was dealt in to the extent of 120 feet, receding from $1,075 to $990, dropping to $790, and selling at the close at $700 @$720. During the week ending October 9th, 964 tons of ore wcre extracted from this mine, aad 1,090 tons were reduced, yielding an aggregate of $38,801.66, or an average of $35.62 per ton. The east stratum of ore in the lowcr level is said to average some 15 feet in width, and favorable indications have been mct with iu the northwest drift (same level) in ruuning for the west body found above.

Gould & Curry has been rather steadily maintained, and 20 fect were sold within a range of $1,025@1,070, closing at $1,015. The extraordinary expenditures of this compaay during the past quarter have exceeded $250,000, mainly for wood, timber, quicksilver, aad other winter supplies, to last uotil May next, and some disbnrsements are still required for the same purpose. Next month, however, their ardinary surplus earniags can and will probably be applied to the dividend account. Their cnurteous and very efficient superintendent estimates the different bodies of ore between the croppings and the D street tunnel, 200 feet from the surface, at 6,000 tons, which will yield an average of $75 to $80 per ton. Below this level thirty-five feet, there still remains a body of ore 400 feet in length, which, it is thought, will produce at least 8,000 tons, worth, say $35 per ton, and other small deposits known to exist in the upper and lower portioas of the mine are also likely to yield something if oven ao further developments should be made. Four new stations are to be opened below the lower tuanel, or 425-feet level, the lowest to be 825 feet from the surface. This work is progressing with great vigor, and preparations are now being made to open the second and fourth statious.

Savage rose from $1,005 to $1,090, fell to $960, and clnsed at nbont $930; some 29 feet in all changiag hands. It is stated that a permanent body of ore has beea developed in the lower levcl, at least 50 feet in width, aad the drift on the vein continues in good ore.

Crown Point fell from $900 to $750, and closed yesterday at $750 bid. The drift from the 300 feet level is making but little headway, owing to the large volume of water met with. The two inclines from the 230 feet lcvel continue in orc; the south one does not look quite as well as it did a short time since, but the other (on the east stratum) shows some improvcment.

Belcher rceded from $590 to $520, then changed hands at $390, aud sold at the close at $400. This company recently mct with a deposit of good ore, some 13 inches wide, within 200 feet of tho south liae af the Crown Point, at a depth corresponding with the 230 feot level in the latter mine. This is supposed to be a continuation of the west body of ore found in tho Crowu Point.

Ophir has been actively dealt in, and nearly 200 feet were sold, advancing from $390 to $455, then selling at $390, and closing at $380. A considerable body of water has made its appearance again in the Mexican shaft.

Chollar has been in much less favor, and some 250 feet were dealt in, advancing from $430 to $480, buyer 30, receding to $385, and selling yesterday at $380@$370. Potosi has also been active at decliaing rates, and 220 feet changed hands, rising from $415 to $450, buyer 30, steadily dropping to $360, and selling at the close at $350@ $355. These two mines are now producing an average of 150 tons of orc per day. In stoping up from the 385 feet lcvel in the central portion of the Chollar mine, it is said that a veia of pay ore, some 25 feet widc, has been met with. The Bajazet chimney in the Potosi claim is represeuted as showing a decided improvement, and it is thought that this body af ore will extend 100 feet in leagth, with an average of 25 feet in width. The prospecting shaft sunk from the lowor or 485 feet level ou the Potosi, is now down 75 feet, and continues in good ore.

Hale & Norcross receded from $425 to $350, rallied at $380, then dropped to $327½, and closed yesterday at $320@325.

Empire Mill and Mining Company fell from $195 to $162, and closes at $160. The east drift from the lower level has not yet met with ore.

Imperial was dealt in to the extent of some 1,200 shares, advancing from $195 tn $212, steadily declining to $180, buyer 30, and selliug at $172@$175. The receipts of bullion since the 10th instant, including cash surplus then oa hand, exceeded $55,000. Thero is no matcrial change to note in the condition of the mine, save that in stoping up from the sixth level a better quality nf ore has been found.

Bullinn dropped from $105 to $75, and sold yesterday at $70. Confidenco was sold at $72½@$85, closing at $65. Daney receded from $26 to $20, and closed at $15. Sierra Nevada fell from $18 to $14, and sold yesterday at $12½.

The total recorded sales nf stocks, since Saturday last, amounted to $994,947.00.

Fluctuations in Leading Mining Shares for the past Six Months.

Name of Company.	April 10th.	April 20th.	May 1st.	May 10th.	May 20th	June 1st.	June 10th.	June 20th.	July 1st.	July 10th.	July 20th.	July 30th.	August 10th.	August 20th.	Sept. 1st	Sept. 10th.	Sept. 20th	Oct. 1st.
Gould & Curry.....per ft.	2,016	1,975	1,800	1,480	1,600	1,525	1,625	1,645	1,750	1,730	1,730	1,500	1,500	1,475	1,135	1,300	1,240	1,250
Ophir.....	520	560	500	491	550	485	480	500	495	485	470	425	410	390	280	385	445	340
Savage.....	2,025	2,020	1,660	1,376	1,300	1,190	1,150	1,425	1,375	1,400	1,310	1,115	1,225	1,300	1,004	1,225	1,215	1,225
Potosi.....	915	870	750	425	337	202	312	467	332	350	395	480	465	460	440	450	410	472
Chollar.....	942	830	660	425	375	215	317	473	345	370	410	500	490	501	475	455	450	500
Hale & Norcross.....	625	600	430	400	455	440	400	650	560	555	570	525	520	510	480	520	550	750
Sheba.....	....	30	28	....	20	14	15	18	....	....	....	....	....	....	....	....	....	....
Dancy.....	15	....	20	....	22	15	15	15	14	....	14	60	70	43	40	40	40	35
Wide West.....	17	16	10	9	7	5	4	3	7	8	6	....	....	....	....	....	....	16
Burning Moscow.....	38	50	47	41	45	40	46	57	34	29	25	29	25	34	23	20	5	....
Pride of the West.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bullion.....	155	151	150	155	152	135	150	165	160	175	180	175	167	175	160	....	125	126
Real del Monte.....	14	....	....	....	....	12	10	....	....	....	....	....	....	....	....	....	....	....
El Dorado.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Overman.....	325	300	215	240	180	115	100	120	180	342	305	200	241	213	190	135	170	175
Sierra Nevada.....	26	22	16	17	14	13	12	14	15	10	14	25	20	18	19	22	21	17
Yellow Jacket.....	2,500	2,400	2,070	1,515	1,650	1,400	1,320	1,150	1,090	1,015	1,105	1,220	1,380	1,355	1,420	1,460	1,405	1,345
White & Murphy.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sides.....	....	....	....	....	....	....	....	....	....	75	60	....	....	....	....	....	....	....
Uncle Sam.....	320	285	250	245	200	115	100	155	185	345	307	190	240	215	193	185	....	....
Baltic.....	15	....	....	....	....	....	....	....	....	20	16	....	....	....	....	....	....	....
North American.....	34	....	30	....	25	30	28	25	28	35	42	35	30	29	24	16	....	....
Baltimore American.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Meloncs.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Antelope.....	23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Napoleon.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sacramento.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Utah.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lady Bryan.....	....	....	....	....	....	....	....	....	....	6	6	6	3	....	....	....	....	....
Imperial.....	213	205	285	202	205	139	175	217	238	245	218	227	220	235	223	225	221	232
Crown Point.....	1,300	1,170	1,000	1,000	885	725	780	750	765	800	940	905	990	1,250	1,120	1,115	1,150	1,130
Belcher.....	1,800	1,620	1,210	1,200	1,105	925	620	695	780	775	850	805	860	865	875	900	910	875
Alpha.....	....	....	....	....	....	....	....	....	1,450	1,400	1,470	....	1,425	1,500	1,525	1,950	2,100	2,200

Authorized Scale of Commissions Adopted by the S. F. Stock and Exchange Board.

Miscellaneous.

Funded Debt, on par	½ per cent
Insurance Stocks, on par	½ per cent
Wharf Stocks, on par	½ per cent
Gas Stocks, on par	½ per cent
Railroad Stocks, on par	½ per cent
Steamboat Co. Stocks, on par	½ per cent
Telegraph Co. Stocks, on par	½ per cent
Water Co. Stocks, on par	½ per cent
Legal Tender Notes and Bonds, on par	¼ per cent
Bills of Exchange, on net amount	½ per cent
Mint Certificates, on not amount	½ per cent
Specie, on net amount	½ per cent

Commissions on Mining Shares.

Sale at 1 dollar up to 10 dollars per foot	$0 25 per foot
Sale at 10 dollars up to 25 dollars	50 per foot
Sale at 25 dollars up to 50 dollars	1 00 per foot
Sale at 50 dollars up to 100 dollars	1 50 per foot
Sale at 100 dollars up to 200 dollars	2 00 per foot
All over $200 per foot, or share, one per cent. on the amount of purchase or sale.	

FRANKLIN LAWTON, Secretary. J. B. E. CAVALLIER, President.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Apollo, Lander co., 50c		Oct 7	Oct 23*
Adams, Petroleum, Contra Costa co., $7.50		Nov. 3	Nov. 15
Astor, Storay ca., Nev., $1.50		Nav 11	Nov 27*
Bella Vista, Lower Cal., 30c		Oct 14	Oct 23*
Black Ledge, Lander ca., $2		Oct 7	Oct 24*
Blue Ledge, Lander co., 50c		Oct 7	Oct 23*
Boston, El Dorado co., 50c		Nov 7	Nov 21
Buckeye, Lyon co., Nev., $3		Oct 7	Oct 23
Bolinas, Marin co., 50c		Nov 4	Nov 20*
Butte, Humboldt co		Nov 15	Nov 27
Chiplonena, Sonora, Mex., $5		Oct 14	Oct 23
Cortez, Lander co., Nev., $2		Oct 18	Oct 31
Comet, Petraleum, Humboldt co, 30c		Nov 18	Dec 4*
Colorado M. and M. co	Annual Meeting,	Nov 13*	
Caledonia Tunnel	Annual Meeting,	Nov 13*	
Chloride Ledge, Calaveras co., $1		Nov 18	Dec 2*
Cosala, Sinaloa, Mex., $1		Nov 17	Nov 30
Camargo, Lander ca., Nev., $5		Nov 25	Dec 9*
Diamond, Del Norte co., $2		Oct 19	Nov 7
Dancy, Lyon co., Nev., $1.50		Nov 6	Nov 25
Edward Everett, Lander co., 25c		Oct 14	Oct 23*
Evoca Cons., Del Norte co., 50c		Nov 4	Nov 20*
El Tesoro, La Paz, Lawor California, $1		Nov 16	Nov 28
Florida, Reese River, Nev. $10		Oct 18	Nov 4
Franco Americana, San Antanio, L. C., 25c		Nov 21	Dec 4
Georgo Washington, Alpine co., $1		Oct 21	Nov 6*
Good Hope, Alpine co., 50c		Oct 14	Oct 28*
Golden Rule, Dividend		Payable Oct 20	
Gold Canon Cons., Storey co., Nev., 55c		Nov 6	Nov 25
Honest Miner, Lander co., 50c		Oct 28	Nov 13*
Hanscom, Copper, Del Norte co., 15c		Nov 11	Nov 27*
Hale & Norcross, Storey co., Nev., $25		Oct 9	Oct 23
Hornet, Lander co., Nev., 50c		Oct 21	Nov 21*
Imperial	Dividend Payable Oct 10		
Joe Lane, Lander co., 50c		Oct 7	Oct 23*
Jewett, Storey co., $1		Nov 11	Nov 25*
Josephine, Coso District, $1		Oct 25	Nov 9
Kentucky, Calaveras co., $1		Oct 10	Oct 30
Knox, Alpine co., 40c		Nov 11	Nov 25*
Kohler Bros., San Antonio, L. C.	Special Meeting	Nov 1	
Keokuk, Contra Costa co., 10c		Nov 18	Dec 4*
La Blanca, Sonora, Mex., 2.50		Oct 12	Oct 25
London, Siskiyou ca., 50c		Oct 30	Nov 11
Lady Bell, Del Norte co., 15c		Nov 2	Nov 14
La Victoria, Mariposa co., $3		Nov 4	Nov 20
Lancha Plana, Calaveras co., $2	Levied Oct 1*		
Leon, Esmeralda co., Nov., 35c		Nov 17	Dec 18
Mammoth, Alpine co., $1		Oct 23	Nov 13*
Melones and Stanislaus, Calaveras co., $250		Nov. 7	Nov 20
Maria, Chihuahua, Mex., $1		Nov 18	Dec 2*
North American Tin, Mexico, $1		Oct 14	Nov 1*
Nonpareil, Tuolumne co., $1		Oct 23	Nov 6
Naestra Senora de Guadalupe, Jalisco, $6		Oct 16	Oct 28
Nuestra Senora de Guadalupe, Durango, 70c		Oct 21	Nov 6
Ontario, Lander co., 50c		Oct 28	Nov 6*
Old Colony Lander co. $6		Oct 14	Nov 1*
Ophir, Storey co., Nev., $8.33½		Oct 3	Oct 28
Oroville, Butte co., $1		Nov 18	Dec 2*
Pizarro, Lander co., 10c		Oct 21	Nov 4*
Potosi, Storey co., Nev., $9.50		Nov 6	Nov 20
Paragon, Humboldt co., 30c		Oct 4	Oct 26
Providential, Lander co., Nev		Sale Oct 27	
Patrocina and Dolores	Annual Meeting	Nov 13	
Porter, Butte co., Cal., $1		Nov 18	Nov 30
Peninsula, San Antonio District, L. Cal., $10		Nov 17	Nov 20
Refugio, Chihuahua, Mex., $2 50		Nov 11	Nov 23
Southern Light, Lander co., 50c		Oct 28	Nov 15*
Simpson, Alpine co., 25c		Oct 14	Oct 28*
Segregated Belcher, Storey co., $2		Oct 7	Oct 23*
Sierra Nevada, Storey co., Nev., $7.50		Oct 7	Oct 21
Shoshone, Lander co., Nev., $2		Oct 9	Oct 23
Salambo, Tuolumne co., 75c		Nov 6	Nov 25
Segregated Belcher	Annual Meeting	Oct 24	
San Fernando, Petroleum	Adjourned Meeting,	Nov 6*	
Sierra Valley, Plumas co., $1		Nov 13	Nov 25
Salambo, Tuolumne ca., 75c		Nov 6	Nov 25
United States, 25c		Oct 21	Oct 28*
Wide West, Esmeralda co., $5		Nov 18	Dec 4*
Walipi, Alpine co., $1		Oct 14	Oct 30*
Wide West, Alpine co., $1		Oct 14	Oct 30*
Wide West, Esmeralda, Nev., $5		Nov 6	Nov 20
Waitt Con. Colorada Dist., Arizona	Adjourned Meeting	Oct 25	
Yo Scmite, Humboldt co., Nev., $1.25		Oct 21	Nov 6*
Yankee Blade, Lander co., 30c		Oct 7	Oct 27*
Yuba, Brawn Valley	Annual Meeting,	Oct 24	

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Astor	Oct 12	1 00
Cortez	Sept 21	2 00
Flowery Hill	Sept 27	2 00
Gold Canon	Oct. 5	55
Mount Morale and Lincoln	Sept 29	15
Nevada	Oct 5	7 00
Potosi	Oct 6	9 50
Sierra Nevada	Sept 17	7 50
Schiller	Aug 23	1 00
Sand Springs Salt	Oct 1	5 00
United States	Sept 15	25
Union (Peavine)	Oct 12	25

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale
American Flat Nevada	Oct 14	Virginia
Branch Mint	Oct 28	Virginia
Bishop	Oct 27	Gold Hill
Burning Moscow	Oct 18	San Francisco
Bullion	Nov 9	Virginia
Central Hawkeye	Oct 13	Gold Hill
Crystal Peak Coal	Oct 14	Virginia
Combined Effort	Oct 29	Gold Hill
Crown Point	Oct 20	San Francisco
De Groot	Oct 31	Virginia
Exchequer	Oct 17	San Francisco
Globe	Oct 16	Virginia
Hamilton	Oct 18	Virginia
Hale & Norcross	Oct 23	San Francisco
Keystone	Oct 20	Gold Hill
Mount Blanc	Nov 3	Virginia
Napoleon Consolidated	Oct 16	Virginia
North American	Oct 20	Virginia
Orleans Flat	Oct 26	Virginia
Ophir	Oct 18	San Francisco
Sierra	Oct 16	Virginia
Sierra Nevada	Oct 21	San Francisco
Segregated Belcher	Oct 24	San Francisco

MINING AND SCIENTIFIC PRESS PATENT AGENCY.

For the Pacific Coast.

OFFICE AT THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 4th, 1861, and March 3d, 1863, now in force, introduces several important changes in our Patent System. The general practice at the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent, and if the final fee for such patent be not paid within the said six months, the patent shall be witheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely recommend his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent together with a stamp to return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will ofttimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues. If the application is rejected we a cause thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity at having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 years and 6 mos...	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every application for a patent, for seventeen years	15
On every caveat	10
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, No. 505 Clay street, corner of Sansome, San Francisco.

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Among others are those of the following forms:

Shareholder's Proxy.

Know all men by these presents, that I, ... do hereby constitute and appoint ..... my attorney and agent, for me and in my name, to vote as my proxy, at a meeting of the ..... Mining Company, to be held ..... 186, according to the number of votes that I should be entitled to cast were I there personally present.

In witness whereof I have this day hereunto set my hand and seal. .....[Seal]

Dated 186

Assessment Notice.

..... Company

....

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the ..th day of ....., 186, an Assessment of .....per share was levied upon the Capital Stock of said Company, payable on the ..th day of .....186, in United States gold and silver coin to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the ..th day of ....., 186, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on ....., the ..th day of ....., 186, to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees.

..... Secretary.

Office.....

NOTICE.—There are delinquent, upon the following described Stock, on account of assessment levied on the ..th day of ..... 186, the several amounts set opposite the names of the respective shareholders as follows, to wit:

Names.	No. Certificate.	No. Shares.	Amount.
Theophilus Thistle	23	14	$140 00
Peter Pipe	2	3	30 00

And in accordance with law and an order of the Board of Trustees, made on the ..th day of ....., 186, so many shares of each parcel of said stock as may be necessary, will be sold at the.....

....., on ....., the ..th day of ....., 186, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

..... Secretary.

Office.....

☞ Our advertisers are furnished with blank Assessment Sale notices free of charge. Orders from the interior promptly filled, by mail or express, as may be desired.

A Business Compliment.

PETALUMA, Oct. 4, 1885.

MESSRS. DEWEY & CO.—Gentlemen: Your note informing me that my patent for Crushing and Baling Machine is ordered to issue is at hand. Please accept my thanks for the prompt and business-like manner with which the case has been conducted, and inclosed find twenty dollars for balance Government fees. Respectfully, etc.

JACOB PRICE.

Mechanical.

A New Principle of Furnace Building.

An unusually large amount of attention has been directed to improvements in furnace building, during the last four or five years, both in Europe and on this continent. Among the improvements really novel, may be classed those quite recently introduced by Mr. E. B. Wilson, of London and Glasgow, Great Britain, by which he claims to effect a perfect combustion of the coal, with an entire absence of smoke, and a consequent attainment of the highest possible degree of economy in furnace working. The editor of the Glasgow *Morning Journal*, after a free and careful examination of the improvement, says that "the invention seems now to have been brought to the highest state of practical efficiency."

The principle upon which Mr. Wilson has based his improvement, is that of carrying on combustion inversely to the usual practice—that is, *by forming the fuel from the upper surface downward and inward*, instead of from the lower surface, upward and outward.

In carrying out this idea, says the *Journal*, the invention dispenses entirely with furnace bars, and instead of the ordinary feed door, introduces an aperture in the top of the furnace, through which both fuel and air are supplied, and which can be readily opened or closed as required. The coal, introduced at this opening in small pieces, falls on a sort of curved inclined plane, where it lies in a sloping bank till consumed. In front of the heap of coals is what the inventor calls a "mixing chamber," formed by raising the roof of the furnace in a slanting direction. As combustion goes on, the whole mass of fuel slides gradually downwards, leaving room for the fresh coal, which, in small quantities, and at short intervals, is supplied at the top. When the furnace is in full operation, the door above described is kept wholly or partly open, and the whole of the atmospheric air necessary to carry on combustion is admitted through the inlet thus made. On first rushing in the air passes through a cold stratum of fuel, extending a few inches downwards. Below this the coal commences to smoulder, giving off free carbon vapor and hydrogeneous gases. These gaseous products become rapidly and completely combined with oxygen, whilst at the same time a sufficient surplus of oxygen is admitted to keep in vigorous combustion the solid carbon on the onlside of the smouldering fuel. It will thus be readily understood that before the gases evolved from the coal can pass through the outlying stratum of burning carbon, the gaseous mixture, of course, catches fire, and adds to the heat obtained from the solid fael that derived from its own perfect combustion.

While this process is going on, the heating chamber of the furnace is kept continuously filled with intense white flame. The effectual burning of the gases thrown off from the fuel is, we need hardly say, a great source of economy. In the ordinary process of burning coal on fire-bars, these gases pass immediately from the hottest part of the fuel, through the cooler coal lying on the top, and thence to parts of the furnace of still lower temperature, the result being that the greater portion of them escapes into the chimney unconsumed. By Mr. Wilson's method, again, the gases pass from a cooler stratum of coal into one in a violent state of combustion, and are, in consequence, completely burnt, thus adding immensely to the heating power of the furnace.

The improved furnace has been applied both to a puddling furnace and to a furnace employed for heating bars for subsequent manipulation. It is said that the invention gives the highest satisfaction both to the employers and the employed, in the establishment where the experiment was tried. The saving of fuel was found to be fully one-third, as tested side by side with a furnace of the old construction. The refuse, after forty-eight hours' work, did not half fill an ordinary hand-barrow. The furnace is, moreover, almost self-regulating, as it requires but a small supply of coal every ten minutes, while the mass of fuel slides down automically into the interior. The refuse is removed once each twenty-four hours, through a small door in the side, which is kept hermetically sealed, except during the operation of removing the refuse, which occupies but a few minutes only. The time required for getting the furnace at work is also less than that required for those of ordinary construction.

It is said that the improvement can be added, with small expense only, to furnaces generally. The inventor has been experimenting with his furnace for several months. At first he found considerable difficulty in getting beyond a certain degree of heat; but by subsequent modifications of his improvement, he was finally enabled to obtain the utmost intensity of heat; which can also be concentrated within a limited space, or diffused over considerable area, as is desired by the operator.

If the statement as given by the Glasgow *Journal* is correct, in the main, this invention is a most important *desideratum*, and would be well worth looking after and inquiring into by the foundry men of this State. We see no reason why it should not be equally applicable to furnaces for making steam, although no mention is made of such an application by the authority before us.

A Linseed Oil Manufactory, with a capacity to work up 1,500 bushels of flaxseed weekly, is to be established on Townsend street, near the South Beach, in this city. The necessary machinery for the same is already contracted for in the East. An establishment for breaking flax and manufacturing linen, in connection with the oil factory, is also projected, thus adding two more important industrial interests to those already established in the State, and which are calculated to render California every year more and more independent of the older States of the Union and of Europe.

Manufactories in California.—The census returns for 1860 represent 3,777 manufacturing establishments in California and Oregon in that year, with an invested capital of $23,380,334, paying for the raw material consumed $28,483,626; employing 50,737 male and 67 female hands; paying for labor $29,037,543, and producing annually goods amounting in value to $71,229,989, $44,927,333 of which were the products of gold mining.

Thin Iron.—Experiments on thin rolling sheet-iron appear to be continued in England. The latest effort is said to be a sheet of iron so thin that it requires forty-eight hundred sheets to make one inch in thickness. That is working the thing down rather too fine for our credulity. The thickness designated would not exceed that of tissue paper.

Cheap Rents.—A "House Building Company" has been organized in New York, for the purpose of supplying men in moderate circumstances with decent houses, at living rents. The company builds the houses in convenient blocks, with good space for common grounds, and sells them at cost and interest.

A Monster Pig Trough has recently been constructed at Dorchester, England, for the famous Dorsetshire swinery, 500 feet long, and shaped like a horse-shoe. Two thousand pigs will be able to feed out of it at one time.

A New Combustible has been patented in Paris, said to be very pure charcoal, finely ground and made into a paste with starch. The paste is moulded into cakes or balls of different sizes, and then dried. When perfectly dry, these may be lighted with a lucifer match, and will continue to burn steadily, like German tinder, without giving flame or smoke. The combustible is intended for heating urns, chafferettes, etc.

Acknowledging their Indebtedness.—The Liverpool *Post* says that the most curious circumstances in the assemblage of English and French ships at Plymouth is, that both these nations "owe mainly to the Americans *the models* upon which they are now perfecting their vessels." That is not the only thing for which they are indebted to us. The experiment of big guns in naval warfare is another important fact which they are just beginning to be impressed with.

New Artificial Light.—Mr. Jas. Wilkinson, of Chelsea, is endeavoring to rival the magnesium light, for photographic purposes, by means of a mixture of phosphorus and nitrate of potash. He recently burnt a quarter of a pound of this mixture in his garden, at night, with a view to obtain a photograph of a wind engine which was being erected in an adjoining garden, and he states that "the length of time from when it was first lit until it was finally burnt out was nearly six minutes. The utmost cost was a fraction over fourpence. The reflection of the light might be seen for two miles around. So bright was it that the fire-engine authorities mistook it for an ordinary conflagration, and hurried their engines to the spot. Upon finding no trace of the fire they returned, rather chagrined, not, however, without first satisfying themselves by a thorough examination of the premises. All around appeared one blaze of light, the sky looked like a mass of fire." The picture taken during this startling illumination, "came out," we are told, "with great sharpness and vividness, the houses near being brought out prominently in, in fact, equaled any picture taken on a bright day."—*Mechanics' Magazine.*

Railroad Accidents in Massachusetts.—From the annual returns of the Directors of all the railroads in the State of Massachusetts, made to the Legislature, for the year ending Nov. 30, 1864, it appears that the whole number of passengers transported in the cars from Nov. 30, 1863, to Nov. 30, 1864, was eighteen million two hundred and six thousand and twenty-three, (18,206,023.) and of this vast number not a passenger in the cars was killed. Three persons in attempting to get on, and nine in passing from one car to another, or in jumping or falling off the platform while the trains were in motion, were killed or fatally injured. Thirty-one persons were killed during the year, while lying or walking on the tracks.

Auguste Larrison, a young workman, has invented a machine of extreme simplicity, intended for the fabrication of iron tubes by the application of centrifugal force. This machine is composed of a cylinder, opening and shutting at will, in which melted iron is poured. A rapid rotary movement digs through the liquid mass in the direction of the axis of the apparatus, while it forces it to adhere to the sides of the cylinder, and to assume its form. Refrigeration effects solidification, and by opening the cylinder a perfectly smooth and straight tube is withdrawn. The economy of this method is considerable, and homogenity is perfect. One is surprised that a method so simple has not been discovered and applied before.

A plan of preventing boiler incrustations, recently adopted in France, consists in lining the boiler with a metallic network at some distance from the sides. The theory is, that the lime salts will be produced upon this network, which can be easily removed, and from which the crust can be readily detached.

Improvement in the Giffard Injector by Mr. Turck.—As this instrument was originally constructed, the cylinder which receives the steam, its nozzle, and the needle which occupies its axis, slid together in the enveloping jacket when it was necessary to change the opening of the annular orifice by which the feed-water mixes with the steam. This arrangement requires two stuffing boxes. Mr. Turck removes these boxes, and renders the cylinder, nozzle and needles fixed, and avoids the contact of the cold water with the wall of the steam-nozzle, by interposing between the cylinder which receives the steam and the jacket a metallic piece surrounding the cylinder and its nozzle. This envelope alone is movable, and by its longitudinal motion closes or opens the annular space by which the feed-water enters. The Committee of the Society for the Encouragement of National Industry approve of the change, and publish the specification and drawing.

New Process for Hardening Timber.—The *Irish Farmers' Gazette*, of August 5th, contains the following:

A native of Russia has discovered a process by which timber, though newly felled, may become so hard as to resist the influences of the most trying climates for an indefinite period. The most curious part of the invention is, that it does not involve the use of chemicals of any sort, such as steeping in creosote, etc., and that the process is applied to the tree while growing. The inventor is now making arrangements for the supply of his timber to railway contractors in England, and will not require any remuneration further than the amount which should be paid for ordinary timber, until the period shall have elapsed beyond which the ordinary railway sleepers, telegraph poles, etc., require to be replaced. The railway sleepers require renewing at intervals of from four to six years; but the inventor of the new process of preparing timber asserts that he will supply an article which need not be disturbed for fifty years.

Hansbrow's Hydrostatic Engine.—The new quartz mill at Rocky Falls is completed. The motive power is one of Redding & Hansbrow's hydrostatic engines, and as many hopes and fears have been felt and expressed by the public as to the probable success of the experiment, we are happy to say the thing worked like a charm, and all that is now lacking is a little more water. Should the working of this engine prove a success, and there now appears no good reason to doubt it, it will prove an immense saving where wood is scarce and high.—*Gold Hill News.*

There are 250,000,000 lucifer matches daily consumed in England.

Sharp Financial Practice—The Romance of Insurance.

Perhaps the most singular specimen of an insurance company that ever existed was the "Plate-Glass Insurance Co." that flourished in London some twenty years ago. We doubt whether any of our California mining share operators ever played quite so sharp a game as that narrated below:

At the time alluded to, plate-glass of enormous dimensions was beginning to be brought into use for shop windows in the great thoroughfares, and these monster panes seemed especially to provoke the destructive propensities of that class of young bucks who were in the habit of "travelling" late, ringing bells, changing signs, breaking street lamps, and perpetrating all manner of mischief. To aggravate matters, it so happened, by some legal oversight, that the law making the smashing of windows a misdemeanor was so worded as to afford no protection to panes above a certain size. This furnished perfect immunity to joyhawkers in their attacks upon the largest and costliest show windows, and the shopkeepers suffered accordingly. But now a bright idea occurred to one of the most active and enterprising of the "destructives." He set to work among his companions and organized a "Plate-Glass Insurance Co." for the insurance of panes too large to be within the protection of the law. A room fronting upon a crowded street was taken, showy signs put up, and business commenced with all due formality. Meantime energetic outside measures were taken to lend an impetus to the business. The fashionable quarters of London were districted among the stockholders, and it was made the duty of each to devote himself zealously to breaking all the windows in his district not covered by the policies of the company. Under this able management, "the Plate-Glass Insurance Co." was soon floating on the top wave of prosperity, and business and money flowed so fast as almost to appall the stockholders. The losses were few and promptly paid, while the receipts were enormous and the public confidence in the company unbounded. It was in this condition of affairs that the directors sagaciously determined to avail themselves of the present smiles of fortune, and place themselves beyond the risk of her caprice. They had issued immense numbers of policies for a year; the premiums were already paid; every one likely to insure *had* insured; what then, was the use of continuing the expense of carrying on the business and risk of losses? These views met with the unanimous approval of the stockholders. A meeting was accordingly held, and the resolutions formally passed, dissolving the company and dividing the capital on hand. Thus terminated the existence of the "Plate-Glass Insurance Co.," after a brief but brilliant career of a few months. Its history is calculated to furnish a valuable moral for those who are capable of deriving a lesson from the experience of others.

Gold Mining in Wales.—About two years ago a number of companies were started with the view of working the auriferous quartz deposits discovered in several localities in North Wales, and such was the confidence entertained at the time in the success of Welsh gold mining, that capital was obtained without difficulty from the over-credulous public. The temporary success of the Vigra and Clogan mines was the great inducement to enter into these speculations, and the warning that appeared from time to time in the *Times* had little effect upon the investing classes. Among the companies formed were the Cambrian, East Cambrian, Welsh Gold Mining, Castell Carn, Dorchan, Dolfrwynog, East Clogan, St. David, and many others, and fully one-half the number are by this time either in course of winding up, or unable to proceed, owing to having spent the whole of their capital, and those that are still working show hardly any prospect of success. The Vigra and Clogan mine, which formerly gave such promising indications, has not paid any dividends for three years, which proves that gold mining in the Principality is a speculation in the widest sense of the term. Quartz containing a certain percentage of gold has been discovered at all the mines, but the cost of reduction has been far above the yield of pure metal, and hence the unprofitable character of the speculations, and until the mechanical appliances for extracting the gold from the quartz are more perfect and less costly than at present, gold mining cannot be successfully carried on in Wales.—*London Times.*

The scientific expedition to Brazil, under Agassiz, is chiefly to test his glacial theory, which is that at some past period a very large part of the earth was long covered with two vast caps of snow and ice, centered at the poles, lapping far down toward the equator, and in many parts 12,000 or 15,000 feet thick. He has already made some important discoveries substantiating his theory.

Mining Summary.

CALIFORNIA.

Nevada.—The attention of the Nevada county papers appears to be more particularly directed, at the present time, to the new Excelsior mines, in the upper portion of that county; hence, we suppose the reason that we are unable to gather our usual interesting summary of mining items from the papers of that county. We have before us a column or more of clippings, in relation to the Excelsior mines, from which we learn that considerable ore is being taken out and shipped to Grass Valley, for testing by the working processes employed there. The first shipment of rock from the Enterprise claim consisted of five tons of rock taken as it came from the ledge. The yield, as worked at the French mill in Grass Valley was $652, or $130.40 to the ton. The sulphurets, which assay $250 to the ton (after concentration, we suppose), have not been worked. The tailings are to be worked again, and it is thought they will pay about eighty dollars. This is the first mill test that rock from the new mines has been subjected to, and by this it is fully established that the mines are valuable.

The Confidence company, whose claims are located on the Pacific ledge, have sent four tons of rock, which was also worked at the French mill, and paid $53.50 per ton in gold. Another lot of ore was soon expected to arrive from the same locality. The Confidence have sunk their shaft to the depth of eight feet, where the ledge is seven feet wide. The rock appears to be of excellent quality, and looks very much like that taken from the Enterprise claim. The prospectors of Meadow Lake District seem determined to give their claims a fair test, and for this purpose the rock is taken from the ledges just as it comes and tested in the mills.

The Golden Age company, who claim the first south extension of the Enterprise lead, after much prospecting, have just found the ledge on their claim. The top rock is of the same character as that of the Enterprise, and promises to be equally as rich.

Extraordinary efforts are being made to give the mines of this district a fair test before the rains set in. The only item of interest which we have from the lower section of the county, is in relation to the well known Sneath & Clay mine, near Nevada, which has recently been purchased by an Eastern company, known as the New York and Grass Valley Quartz Mining Co. This mine is now under the management of S. P. Leeds, Esq., one of the best mining experts in the State, and under whose management we predict for it a brilliant success. The mine, we have understood, has been under bad management for some time past. The surface ore has been exhausted, without proper attention being paid to exploration for future work. The rock lately taken from the ledge, though not as rich as has been reported, contains sufficient gold to yield fair pay. At present the company is engaged in driving down the old incline, and it is the intention to sink it one hundred feet below the old works of Sneath & Clay—about four hundred feet in all—before running a level. The ledge lays quite flat, inclining at an angle of about twenty-three degrees; the lower level will only be about a hundred and thirty feet in perpendicular depth below the surface. A large Cornish pump for freeing the mine of water is run by a splendid 40 horse-power engine, the water being raised through a 10-inch pipe to the surface. The ore is raised by an engine of 20 horse-power.

Placer.—The *Stars and Stripes* says the people of Placer are beginning to awaken to the fact that it is not necessary to travel off to distant mining localities to find good paying quartz ledges. Capt. Mallet, an old and experienced quartz miner of Auburn, after prospecting extensively in Washoe and elsewhere, returned to his old home and after a little search has succeeded in striking a very promising ledge, which prospects well in both silver and gold. From the Green Emigrant and other ledges on Bald Hill, rock has been recently taken out nearly as rich and from better defined ledges, than the wonderfully rich specimens obtained last spring. San Francisco speculators have been on the hot scent in that vicinity of late, but the Green Emigrants are disposed to nurse a good thing when they find it, and are not disposed to sell for a mess of pottage. There is a rumor that the members of the Crœsus Company have allowed New York speculators to get the advantage of their want of capital and have sold their fine mine for the bagatelle of about $30,000. The same paper says there is every indication of a quartz furore in that vicinity.

WASHOE.

The depth and development of the principal mines of the Comstock lead, at the present time, is nearly as follows:

Ophir.—The lowest working level is 350 feet—Walsh shaft. Development, 600 feet.

Gould & Curry.—Lowest working level, 425 feet—Bonner shaft. Lowest development, 600 feet—D street shaft.

Savage.—Lowest working level, 365 feet hoisting shaft. Lowest development, 425 feet hoisting shaft.

Chollar and Potosi.—Lowest working level, 350 feet hoisting shaft. Lowest development, 300 feet hoisting shaft. New development shaft commenced at surface.

Yellow Jacket.—Lowest working level, 340 feet hoisting shaft. New shaft being sunk.

Belcher.—Lowest working level, 240 feet hoisting shaft. Lowest development, 440 feet hoisting shaft.

Hale & Norcross.—Lowest development, 550 feet hoisting shaft.

Crown Point—Lowest working level, 260 feet hoisting shaft.

Gold Hill Claims.—Average working level, 250@500 feet. Average development, 500@600 feet.

The California mine is alive once more. The parties who recently took this mine to work on shares have lately struck a splendid body of ore, some distance south of the old works, which, it is said, is very large. The *Enterprise* says of it: "As to the richness of the ore discovered there can be no doubt. Competent judges from other mines have pronounced it first rate. All old settlers know the tunnel through which it is brought. The ore is found within thirty feet of the surface. How far south it may extend, or how far down, is, of course, unknown. It is the body of ore for which the company has so long been looking."

The Hale & Norcross Company are engaged in sinking an air shaft to introduce fresh air to the bottom of the mine, 700 feet below the surface, where they have struck a body of excellent ore. As soon as the air shaft is down, the company will begin taking out ore.

The Savage Company, says the *Union*, have bought the Minnesota Mill, Washoe City, and will run it, hereafter, on ore from their mine. They have done well in the appointment of Captain L. Rawlings, formerly agent in this city for the California Stage Company, a gentleman of sound practical worth and good business capacity, as superintendent of the mill. He has already entered upon the discharge of his duties. The mill is an excellent one, of sixteen stamps, and will undoubtedly do good work, as it has done heretofore.

We learn from the Monitor *Gazette*, Alpine county, that the Monitor Consolidated Mining Company have a 105 horse-power water wheel, with all the machinery of a 25-ton mill now on its way over the mountains.

The Silver Mountain *Bulletin* notes that large quantities of ore are being shipped from the Morning Star mine, in the Great Mogul district, valued at $100 per ton. It is taken to smelting and reducing furnaces that are being erected at Oakland, Alameda county, because at present there are no suitable furnaces on the other side of the mountains.

HUMBOLDT.

The Virginia *Enterprise*, of the 11th inst., says that nineteen bars of bullion have reached Wells, Fargo & Co.'s office from Stevenson's mill, Trinity district, about 25 miles from Humboldt river, and adds: "We shall expect to see many such shipments from that region before next spring. Bullion always tells; talk is little heeded."

The Humboldt *Register* says that Wehber & Co. are preparing to build furnaces for smelting the argentiferous galena of Arabia. They will haul fire-bricks from Virginia, which will cost about 50 cents each at the mill. The two furnaces to be first built are intended to smelt about 10 tons of ore per day. This will make available large amounts of ore now of no value, for lack of the means to extract the silver.

The *Register* learns from Star City that work has commenced on the Whitmore tunnel. Men are also at work on the croppings, taking out minerals to be shipped to England, where the principal shareholders live. A contract has been let out on the American claim, on the Sheba belt. This company joins the American claim on the Sheba belt. The contracting parties have commenced work. The De Soto, Almira, American Basin, Yankee, and other claims, all at work.

The El Dorado mining district, located on the West side of the Humboldt mountains, proper, is beginning to receive some attention. It is described as being a very promising mineral region, well timbered, and abounding with water, affording most excellent mill sites. The oldest and principal location in the district is the Bonner ledge, which has been opened to the depth of seventy feet, exhibiting a fine 7 foot ledge of argentiferous galena, assaying from $60 to $200 to the ton. The same company has also opened another and very similar parallel ledge by a tunnel. Operations are now suspended for lack of capital.

The Armstrong Series is also situated in this district, and consists of ledges One, Two, Three and Four, lying well down the mountain side, some distance north of El Dorado Cañon. The company owns 3,000 feet on each ledge. The croppings are abundant, and show well in mineral.

REESE RIVER.

The *Reveille* apprehends that but few even of the citizens of Austin are aware of the extent and character of the work that has been undertaken and carried on in the Reese River region, under the direction of eastern capital. Whole districts have been surveyed and mapped; hundred of ledges in each have been examined and traced, and their character determined. Large numbers of descriptive specimens have been collected and properly classified to exhibit the character of the veins of silver, copper, tin and lead, which abound there, the value of which the *Reveille* thinks will eventually be incalculable.

The Union and Pioneer mills which have long been idle, are being put in a condition to resume work under the most favorable auspices.

A powerful steam engine for the hoisting works on the Stephen A. Douglas, on Lander Hill, arrived in Austin on the 9th instant and will soon be put in operation.

Several wagons containing the machinery and boilers for Hunt's mill at San Antonio, recently passed through Austin. The mill will be of the capacity of ten stamps, and will be erected at Indian Springs, seven miles from the location of the principal mines, where there is a plentiful supply of wood and water.

A new upright engine, with boiler and pump, have recently arrived at Amador, and are now in course of erection on the grounds of the Coral mine, at the mouth of Coral Cañon. A mill will shortly arrive for the same claim.

The Tessoro hoisting works are completed, and have been started up. The works comprise a building fifty feet in length by twenty-five wide, inclosing the boiler, engine, reel, and the mouth of the shaft. The boiler is a horizontal tubular, set in a brick arch. The engine is a very fine one of thirty-horse power, connected with the reel by friction gearing of the most approved style.

The *Reveille* has seen two bars of bullion which showed extraordinary work. These bars were from Phelps' mill at Big Creek, under the superintendence of C. S. Coover. The ore from which this bullion was obtained was taken from the Ethan Allen, which is full of base metal, and of course requires roasting; and although the amalgamation was in iron pans, the bars are 962 and 970 fine. The bullion from this process does not ordinarily exceed 700 fine.

Columbus district lies twenty-five miles north of Austin. It was discovered the past summer, and up to this date about thirty ledges have been recorded. The Mount Maria Company has located four ledges, named the Hale Great Eastern, Real del Monte, and New York; also a mill site and timber land. The ledges in the district are generally large, varying from three feet to ten feet in thickness, and several of them that have been worked exhibit good chloride ore on the surface. The water from Boone Cañon is sufficient for several mills. Timber is very plentiful in the neighborhood, and excellent and nutritious pasturage is abundant. The Mount Maria Company has had a fine map executed, showing the position of their locations.

Terrible Foundery Accident.—A terrible accident occurred at the foundery of Essler & Co., South Brooklyn, N. Y., on the 19th ult., by which two men met with a most horrible death. They were engaged in carrying a large iron crucible containing two hundred pounds of molten iron, which was intended for a heavy casting, and before reaching the bed-plate which directs the metal into the mould, the handle of the crucible broke and the contents scattered in all directions, covering the limbs of the unfortunate men up to the knees, absolutely roasting the flesh completely from the bones. The sufferers were removed to their residences in a state of suffering beyond the power of human nature to endure, and died in a few hours afterwards.

The California Stage Company appear to be contracting their field of operations to some extent. According to the Nevada *Transcript*, the company, within the past few months, have sold several of their most valuable routes, and negotiations are now pending for the sale of others. The only routes now owned by the company are those which terminate in Marysville. The California Stage Company is one of the oldest transportation companies in the State, and at one time controlled almost the entire travel of Northern California. Its affairs were managed by men of energy and enterprise, and whenever business would warrant, its lines were extended. The traveling public always found gentlemanly agents and accommodating drivers along its lines. Whatever may be the future of the company, it will long be remembered as one of the institutions of the State.

Sugar from Sorghum.—The question of obtaining sugar from sorghum has been fully solved by Mr. Jonas Hoover, of Mahaska county, Iowa. The sugar is said to be light, with a lively grain, and dry, equal in every particular to a good article of New Orleans. Mr. Hoover has taken out a patent for his process.

Later from Australia.—By the arrival of the Lubra, 72 days from Newcastle, New South Wales, files of Sydney papers to August 9th have been received. They contain little news of general interest. The colony appears to be in a thriving condition. The receipts from the gold mines are large, and several new strikes of auriferous ledges are reported.

Crosby & Thompson are hurrying up their new machinery in Colorado, says the Colorado papers, so as to get it running this Fall. At the Manhattan Mill, their desulpharizing machinery is also being erected. Before Spring it will have been thoroughly tested on the various ores of that region.

Thrilling Scene—A Train of Cars Running Through Burning Woods.—On Sunday, while the fire in the woods at Cedar Swamp was at its hight, an extra train of sixteen cars, bringing the Fourteenth Maine regiment, on their way home to Augusta, came over the Eastern Railroad. On either side of the track the flames rose forty feet high, the noise drowning the sound of the train. It was a fearful sight to behold. The oil on the wheels took fire, and along the train were seen revolving wheels of fire, while the seven hundred officers and men of the gallant Fourteenth were nearly smothered in the dense smoke. Fortunately the long train drawn by the "Cape Ann" went through the terrible ordeal without accident, and as the cars emerged beyond the burning district, the smoke rushed from the car windows into the air, giving an appearance of a train on fire.—[*Portsmouth (N. H.) Chronicle, Sept.* 10.

The Bureau of Rebel Archives, under the charge of Dr. Francis Dieber, is now at work upon the examination and classification of the five hundred boxes of archives of the late rebel Government. These documents relate to every department and period of the rebellion, and cover the larger part of its civil and military history. The title of the bureau has been changed to the Archive Office of the War Department, and the office will be permanently established in Ford's theatre building, as soon as the necessary alterations can be made, which will be done by the first of January.

The Webster Family.—The only person left to perpetuate the family name of Daniel Webster is his grandson, Ashburton Webster, a son of Fletcher Webster, who is a very promising young man now in the American navy. Fletcher Webster left two sons and a daughter, the last still living. Edward Webster, Major, who died in Mexico, left no children. There are four other grandchildren by his much beloved Julia, bearing the name of Appleton. This is all of the family of Daniel Webster.

Del Monte Again.—E. P. Atkins, of San Francisco, sues Alex. Gamble for $13,000, on some matter growing out of the Real Del Monte affair. It will be recollected that Gamble was President of the company and Atkins superintendent of the mine, at the time of its collapse.

Singular if True.—Six years ago a lady in Norwich planted three peach stones in a box. Only one of them came up, but now from the three branches of the tree she is gathering three different varieties of peaches.

The iron interests of the country were never more prosperous than at the present time.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides and the evidence of any error which may appear will be received in friendship and treated with respect.

American and Foreign Patents.—Letters Patent for Inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the credit system.

San Francisco:

Saturday Morning, Oct. 21, 1865.

OIL PROSPECTS IN HUMBOLDT COUNTY.

Although no large amount of oil has yet been struck in Humboldt county, enough has been reached, in at least one locality, to make that a paying property. There are now fully twenty-five wells in progress, of which some seven or eight have more or less oil, which can be obtained by pumping. No well, we believe, has yet been sunk to the depth of 225 feet, at which depth neither a flowing or good pumping well is looked for with any degree of confidence in the Eastern oil regions. The lack of suitable transportation will for a long time yet continue to operate very unfavorably for the Humboldt region. In addition to the lack of roads to reach the seaboard, the steamer Del Norte now refuses to receive oil freight for the reason that such cargo vitiates her insurance policy. These difficulties cannot be overcome until a large aggregate of yield has been reached, and other means than those at present at command are devised for getting the oil to market. When that time arrives (and the indications of its near approach are even now abundant and constantly accumulating), the oil districts of Humboldt county will develop an amount of wealth in the petroleum interest which will bear a favorable comparison with the richest oil regions of Pennsylvania or Virginia.

The oil from Humboldt county is worth nearly double, in its crude state, that which reaches this city from the lower coast. As an evidence that there is even now money in the business, we will cite the following facts which we have upon reliable authority. The Union Mattole Company recently made a shipment of of oil to this city, with the following result:

	Cost per gall.
Cost of pumping	1 cent.
Cost of barreling	8 "
Freight to Centerville	4 "
Freight thence to San Francisco	4 "
Incidentals	3 "
Cost of oil in this city	20 cents.

Stanford & Bro. offered $1 per gallon for that oil on the wharf in this city—giving a net profit of eighty cents per gallon, or about $25 per barrel, for the crude oil. Neither the Gould & Curry or Ophir, in their palmiest days, ever paid anything like such a profit on the labor invested in extracting the precious metals. It should be remarked, that the above results have been obtained at a time when the price of oil is at an unusually high figure; yet, leaving a fair margin for all drawbacks, the evidence is accumulative of the fact that, even under existing circumstances, a pumping well, producing not more than eight or ten barrels per day, is a paying investment.

Letters from the Mattole Petroleum company's well, located between the Noble and the Union Mattole, received in this city the past week, express the greatest confidence in the success of that well. They are now down 173 feet, and have obtained a very fair flow of oil. They are still going down, counting confidently on a heavier flow by the time they reach 200 feet. The Noble well, as is already well known, has oil in paying quantities.

At last accounts, the Union had forty barrels of oil at Eureka, awaiting shipment by sailing vessels, as the Del Norte refused to receive it, for reasons already stated. Other shipments will follow as fast as circumstances will permit. There is every reason to believe that the amount of oil offering will soon be sufficient to warrant the investment of the necessary capital to secure regular, cheap and prompt transportation.

PICTURED ROCKS.—A gentleman just in from Excelsior, states that about half a mile south of Summit City are an immense number of large granite rocks completely covered with hieroglyphics. These are deeply cut into the solid rock, as though done with a chisel. There are pictures of men and animals, birds and beasts, and of various warlike weapons, with many lines and signs difficult to be understood. These pictured rocks extend for a distance of two or three miles in a line running east and west. Our friend made drawings of many of the most striking pictures he saw, but they were unfortunately left behind in Summit City. The hieroglyphics must have been cut by a race of people much superior to the Indian tribes at present found in California.—*Virginia Enterprise.*

We have seen several specimens which have been carefully cut out from those "pictured rocks," also a number of drawings from the "pictures," reduced in size from the originals, made upon the spot by a competent artist. These sculptures are very similar in character to the rude drawings made to this day by almost all the Indian tribes which inhabit the the country between the Pacific Ocean and the Mississippi River, being simply rude pictures of Indians—male and female—with the more common animals, such as bears, deer and rabbits; also birds and warlike weapons. A gentleman who is well acquainted in that region, and who has paid considerable attention to to these pictures, informs us that they are evidently of various ages, from so far back that they are almost obliterated by the action of the elements, down to those showing fresh marks of sculpture—such as *must have been made within the past year!* In fact, his opinion is that they have been made by the present Indians inhabiting and visiting these regions, and their immediate ancestors. It is possible that they may constitute a record of their history, or perhaps a memento of their annual visits there; for it is not a place of their continued abode, being too near the perpetual snow line for such a purpose. Possibly the inscriptions may be made simply as a means of passing away the time, or perhaps from the same motive of notoriety which prompts thousands of white men to carve or inscribe their names in various places much frequented by travelers in many parts of the world. This desire for cheap notoriety appears to be common to white men everywhere, and we see no reason why it may not be also common to the red man. Probably if the inquiry was made of any member of a tribe which is in the habit of visiting the locality of these newly-found "pictured rocks," some reliable information might be obtained which would take away from them the charm of antiquity with which, in the minds of some, they are now invested.

THREE STEAMERS.—The Pacific Mail Steamship Company will soon begin running three steamers per month as of old. This would indicate that travel is increasing between New York and San Francisco. The steamers will leave San Francisco in the following order: One on the 10th, 20th, and 30th of every month. The Golden City, which left on Wednesday last, carried away 998 passengers and $1,661,565 in treasure. The opposition steamer, which sailed on Thursday of last week, also left crowded with passengers to its utmost capacity.

Some dogs recently encountered and killed a porcupine near Placerville. It is a rare animal in California. The lips and mouths of the dogs were stuck full of its quills.

The Great Earthquake of New Madrid.

The greatest recorded earthquake, within the limits of the United States, occurred in New Madrid, then a small village upon the Mississippi, since in the State of Missouri. The agitations of this terrible convulsion commenced at 2 o'clock on the morning of the 16th of December, 1811. The inhabitants were aroused from their slumbers by a deep rumbling noise, like heavy thunder in the distance, accompanied with a violent vibratory movement of the earth from the southwest to the northeast, so violent at times that the people were unable to stand upon their feet without holding on to something for support.

It was dangerous to stay in their dwellings, for fear they might fall and bury them in their ruins; it was dangerous to be out in the open air, for large trees would be breaking off their tops by the violence of the shocks, and continually falling to the earth, or the earth itself opening in dark, yawning chasms, or fissures, and belching forth muddy water, large lumps of blue clay, coal, and sand, and when the violence of the shocks were over, moaned and slept, again gathering power for a more violent commotion.

On this day twenty-eight distinct shocks were counted, all coming from the southwest and passing to the northeast, while the fissures would run in opposite direction, or from the northwest to the southeast.

On a small river called the Pemiseo at that time, stood a mill owned by a Mr. Riddle This river blew up [such is the expression used by the narrator] for a distance of nearly fifty miles, the bed being entirely destroyed, and the mill swallowed up in the ruins, and an orchard of ten acres of bearing apple trees, also belonging to Mr. Riddle, nearly ruined. The earth, in these explosions, would open in fissures from forty to eighty rods in length, and from three to five feet in width; their depth none knew, as no one had strength of nerve sufficient to fathom them, and the sand and earth would slide in, and water run in, and soon partially fill them up.

After the earthquake had subsided there was not a perfect row of trees left in this orchard—one-half destroyed, some leaning in one direction, others directly contrary; some covered to the limbs in these chasms as they filled up, and others with their roots turned entirely out of the earth.

Large forest trees which stood in the track of these chasms would be split from root to branch, the courses of streams changed, the bottoms of lakes pushed up from beneath and form dry land, dry land blow up, settle down, and form lakes of dark, muddy water.

Where the traveled, beaten road ran one day, on the next might be found some large fissure crossing it, half filled with muddy, torpid water. It was dangerous to travel after dark, for no one knew the changes which an hour might effect in the face of the country, and yet so general was the terror that men, women, and children fled to the highlands to avoid being engulphed in one common grave. One family, in their efforts to reach the highlands by a road they all were acquainted with, unexpectedly came to the borders of an extensive lake; the land had sunk, the water had flowed over it or gushed up out of the earth and formed a new lake. The opposite shore they felt confident could not be far distant, and they traveled on in tepid water, from twelve to forty inches in depth, of a temperature of 100 degrees, or over blood heat, at times of a warmth to be uncomfortable, for the distance of four or five miles, and reached the highlands in safety.

On the 8th of February, 1812, the day on which the severest shocks took place, the shocks seemed to go in waves, like the waves of the sea, throwing down brick chimneys level with the ground, and two brick dwellings in New Madrid, and yet, with all its desolating effects, but one person was thought to have been lost in these commotions.

The morning after the first shock, as some men were crossing the Mississippi, they saw a black substance floating on the river, in strips four or five rods in breadth by twelve or fourteen rods in length, resembling soot from some immense chimney, or the cinders from some gigantic stove-pipe. It was so thick that the water could not be seen under it.

In the Mississippi river, about five miles above what was then called the first Chickasaw Bluffs, but in later times Plum Point, was an island about three miles long, covered with a heavy growth of timber, which sank in one of these shocks to the tops of the trees, which made the navigation extremely dangerous in a low stage of the river.

About four miles above Paducah, on the Ohio river, a large circular basin was formed, more than one hundred feet in diameter, by the sinking of the earth, how deep no one can tell, as the tall stately oak sunk below the tops of the tallest trees. The sink filled with water, and continues so to this time.

For one whole hour the mighty current of the Mississippi was turned backward towards its source, until its dammed-up waters were able to break through the barrier; boats were dashed to pieces and drifted about like feathers, or thrown out on the banks, while amid the awful commotion loud rumblings were heard, and the electric fires flashed up and down and every way through the air. A few years ago it was said that forests and cane-brakes were still visible at the bottom of lakes then formed. The devastation extended over a tract of country three hundred miles long, from the mouth of the Ohio to the St. Francis river. In some places mud and water were thrown over the tallest trees, and great fissures broke in the ground, running uniformly from the northeast to the southwest. The people observing this, cut down trees at right angles with the direction of the fissures, and climbing thereon, escaped being engulfed. Hundreds of these chasms were discovered seven or eight years after the calamity; and as late as 1846, they still appeared like artificial trenches dug by some great army. They were generally parallel, and ranged from ten to forty-five degrees west of north. The region is still called "The Sunk Country," and its extent along the White Water is some eighty miles north and south, and thirty miles east and west. Humboldt remarked that as one of the most wonderful convulsions known to history, since the vibrations continued through several months, and finally culminated in the destruction of Caracas.

AYER'S DESULPHURIZING PROCESS.

EDITORS MINING AND SCIENTIFIC PRESS—*Gentlemen:* In your issue of 22d July, I find some statements, under "Revolution in Mining," which are erroneous in fact and prejudicial to me. Knowing that you can have no motive or wish to mistate, injuriously to me, I beg to submit the following facts:

I have discovered the means of disintegrating rock, cheaply rendering it friable like chalk. I have verified it upon laboratory quantities of almost every variety of stone, until the results are indisputable. The process and its results have been examined by the eminent chemists you name, Drs. Hayes, Silliman and Torrey, and what they state, in writing, is published verbatim. Further and larger experiments more than sustain all they say.

The use of my discovery to mining interests is obvious; but its reduction to use, and its practical administration, being more than I could undertake, I transferred my interest to a company of gentlemen who would develop and carry it into practical use. They have able engineers engaged upon the furnaces and appliances required, with reasonable expectations of having them soon perfected for the reduction of ores. We shall not "revolutionize mining" in a month, and only too sanguine men have expected it; but that we shall supply greater facilities for the extraction of metal from their ores, and important advantages to mining interests, I firmly believe. As to deceiving anybody, we have no motive for that, even if we were base enough. The company ask nothing of miners but a portion of the increased yield which their process affords. I receive not a dollar from the company, except some portion of its income, which it can only have when it has rendered valuable aid to mining interests. That the reporter of an Eastern paper, who knows nothing of mining, should fail to state with technical accuracy a mining problem, you can well enough believe; but that either the *Tribune's* article or the company's publications willingly misstate anything, I beg you to disbelieve. I know my associates, as well as myself, would feel sincere regret if any overstatement of what we can do should obtain publicity through us.

Early in summer the company believed themselves ready for operations and advertised accordingly, but their plans of furnaces were soon found impracticable for tropical climates, because the heated ore must be moved by hand. They are now building, for experiment, furnaces of an automatic character, in which no handling will be required, and which I do not doubt will accomplish our purpose easily and cheaply. Be that as it may, you may rest assured of one thing, and that is my process does disintegrate rock, certainly, effectually, cheaply, and will continue to do so, until the laws of matter change.

As soon as the company can perfect the required appliances, it will offer them, with its rights and royalties, through the proper channel of mining information. To those who feel

restive under the seeming delay, permit me to say, that the company is using all the means in its power, and will hasten to reduce my discovery to practical use at the earliest possible moment, and present it for the adoption of miners everywhere, as soon as possible.

J. C. AYER.

Lowell, Mass., Aug. 28, 1865.

The above letter fully explains itself. What we said in the article referred to, in relation to Professor Torrey, we stated on the authority of a mutual friend, who assured us that he had it from the professor himself. Both gentlemen are now at the East, and we give all parties concerned the benefit of Dr. Ayer's communication.

So far as the certificates of "Drs. Hayes, Silliman and Torrey" go, they refer merely to a laboratory process—the treatment of small quantities of ore; and prove nothing with regard to the value of the discovery as a mill process. Dr. Ayer, however, assures us in the above communication, that "further and larger experiments more than sustain all they say." But the further fact which the Doctor states in his letter, that the company "have able engineers engaged upon the furnaces and appliances required, with *reasonable expectations of having them soon perfected*," would seem to imply that the process has not yet reached a success. It appears, however, that experiments are still in progress; and we sincerely hope that the most sanguine expectations of the company will be more than realized. The Doctor rightly judges that we can have no motive to misstate him, or place any hindrance in the way of experiment or progress in this direction. We can assure him, and all other parties concerned, that we shall be especially happy to announce any satisfactory result, coming from any source, which shall tend to simplify or cheapen any of the processes of mining. Our only object was to place miners on their guard against what we yet consider extravagant figures and calculations with regard to the supposed results of this process. Don't publish your figures, gentlemen, until they have been verified by practical results. The people of California have already suffered quite too much by misplaced confidence in assumed results. Facts are what we want, and not figures.

San Francisco Stock and Exchange Board.

SAN FRANCISCO, October 21st, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ —	$ 74
Gov. Legal Tender Notes	71¼	71¾
State Bonds, 7 ₱ cent	86	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	70	..
San Francisco Bonds, 1858, 8 ₱ cent	65	..
Sacramento City Bonds, 0 ₱ cent	..	..
Sacramento County Bonds, 8 ₱ cent	60	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	77½
Butte County Bonds, 10 ₱ cent	..	80
California Navigation Co	78	78
State Telegraph Stock	25	..
San Francisco Gas Co	99	..
Sacramento Gas Co	..	75
Spring Valley Water Co	50	50½
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	..	..
Central Railroad Co	..	..
North Beach and Mission	104½	..
MINING STOCKS.		
Ophir	$ 300	$ 395
Gould & Curry	1040	1050
Empire M. & M. Co	....	....
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	950	960
Chuliar	370	375
Potosi	345	350
Hale & Norcross	320	325
White & Murphy	....	....
Sierra Nevada	14	15
Crown Point	18	20
Burning Moscow	..	..
Lady Bryan	..	..
Sacramento & Meredith	....	....
Burnside	....	....
Iowa	....	....
El Dorado	....	....
North American	....	....
Baltimore American	....	....
Yellow Jacket	780	800
Overman	105	110
Cedar Hill Tunnel	....	....
Wide West	2	4
Crown Point	750	800
Antelope	....	....
Emeralda	1	6
Ætna	....	....
Real del Monte	....	15
Silver Hill	....	....
Utah	....	....
Justis	..	..
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co	....	....
Molenes and Stanislaus	....	....
Shasta	....	....
Da Soto	....	....
Pride of the West	....	....
Bullion, G. H.	70	75
Buckeye	....	....
Dick Sides	....	....
Imperial	172½	173
Alpha	1090	1100
Bejazett	....	....

THE corn crop of California, for the present year, has been unprecedently large. The same is true of the country at large, according to the report of the Commissioner of Agriculture.

LEAD MINING IN MISSOURI.—The owners of the celebrated lead mines in southern Missouri are building new furnaces, and preparing to employ about 1,500 miners in taking out lead.

Traveling Agent.

MR. ROBERT LATTIMORE is now on a canvassing tour for the PRESS through Butte, Colusi, Tehama, Shasta, and Siskiyou counties, and we recommend him to the favorable consideration of our friends.

OUR NEW YORK AGENCY.

MR. GEO. M. NEWTON is our authorized agent in New York City, and will receive advertisements and subscriptions for the MINING AND SCIENTIFIC PRESS at regular rates. Sample copies of our weekly and monthly issues can be procured by calling upon him, at the office of the "STOCKHOLDER," **No. 72 William street.**

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	80@	87
do pickled ₱ lb	65@	75
do Oregon	50@	80
do New York, ₱ lb	40@	50
Cheese, ₱ lb	25@	35
Honey, ₱ lb	30@	45
Eggs, ₱ doz	@	70
Lard, ₱ lb	33@	
Hams and Bacon, ₱ lb	28@	30
Cranberries, ₱ gal	75@	1 00
Potatoes, sweet, ₱ lb	2@	5
do Irish, ₱ lb	1@	2½
Tomatoes, ₱ lb	5@	8
Onions, ₱ lb	6@	—
Apples, No. 1, ₱ lb	4@	10
Pears, table ₱ lb	3@	10
Plums, dried, ₱ lb	15@	25
Peaches, dried, ₱ lb	15@	25
Grapes, ₱ lb	5@	15
Oranges, ₱ doz	75@	1 00
Lemons, ₱ doz	1 50@	2 00
Chickens, apiece	62@	1 00

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 50 @	7 00
Do Superfine	8 00 @	6 50
Corn Meal, ₱ 100 lb	@	4 00
Wheat, ₱ 100 lb	1 90 @	2 00
Oats, choice, ₱ 100 lb	1 42½@	1 45
Barley, ₱ 100 lb	95@	1 05
Beans, ₱ 100 lb	3 25@	3 35
Potatoes, ₱ 100 lb	75@	1 12
Hay, ₱ ton	10 00 @	15 00
Live Oak Wood, ₱ cord	8 00 @	10 00
Beef, on foot, ₱ lb	@	8
Beef, extra, dressed, ₱ lb	12½@	15
Sheep, on foot,	1 00 @	2 00
Hogs, on foot, ₱ lb	10 @	12
Hogs, dressed, ₱ lb	15 @	18
Groceries, Etc.		
Sugar, crushed, ₱ lb	18½@	17
Do China	10 @	12½
Coffee, Costa Rica, ₱ lb	27½ @	30
Do Rio	27½ @	
Tea, Japan, ₱ lb	85 @	95
Do Green	70 @	90
Hawaiian Rice, ₱ lb	10 @	12
China do.	8 @	10
Coal Oil, ₱ gal	1 70 @	1 75
Candles, ₱ lb	25 @	27
Ranch Butter, ₱ lb	55 @	85
Isthmus do	40 @	42
Cheese, California, ₱ lb	20 @	26
Eggs, ₱ doz	60 @	85
Lard, ₱ lb	28 @	30
Ham and Bacon, ₱ lb	28 @	30
Shoulders	20 @	22
Soap—Pale & C. O	15 @	
Oastile	16½@	17½

San Francisco Metal Market.

PRICES FOR INVOICES.

Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

SAN FRANCISCO, Oct. 7th, 1865.

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Sheet 1@1½c ₱ lb; Sheet, polished, 3c ₱ lb, common, 1½@2½c ₱ lb; Plate 1½c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2½c ₱ lb.

Scotch and English Pig ₱ ton	35	@38
American Pig ₱ ton	35	@36
Refined Bar, bad assortment, ₱ lb	2½@	—
Refined Bar, good assortment, ₱ lb	3½@	—
Boiler No. 1 to 4	4	@ 4½
Plate No. 5 to 9	4½@	—
Sheet No. 10 to 13	4	@—
Sheet No. 14 to 20	5	@—
Sheet No. 24 to 27	5½@	—

COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb

Sheathing ₱ lb	30	@32
Sheathing, Old	25	@35
Sheathing, Yell	30	@32
Sheathing, Old Yell	12	@12
Bolts	—	@—
Composition Nails	30	@32

TIN PLATES.—Duty: 2½c ₱ lb.

Plates, Charcoal, IX ₱ box	10	@12
Plates, I C Charcoal	9	@10½
Roofing Plates	9	@ 10
Banca Tin Slabs, ₱ lb	41	@42½
STEEL.—English Cast Steel, ₱ lb	12½	@18
QUICKSILVER.—Per lb	—	@65
For export	55	@—
ZINC.—Sheets ₱ lb	9½	@10
LEAD.—Pig ₱ lb	7	@ 8
Sheet	10	@12
Pipe	10	@12
Bar	9½	@10

Rates of Advertising

IN THE

MINING AND SCIENTIFIC PRESS.

Mining Advertisements.

Notices of Meetings, per square, one week	$1 00
Notices of Meetings, per square, four weeks	2 50
Assessment Notices, of ordinary length, four weeks	5 00
Assessment Notices, of more than usual length, for each additional square	2 50
Delinquent Sales, per square, two weeks	2 00
Delinquent Sales, per square, three weeks	2 50
Postponements, per square, one week	1 00
Slips of Advertisements, printed for meetings or assessments, per hundred	1 00
Advertising blanks and circulars	Free

Miscellaneous Advertisements.

One week, per square	$1 00
One month, per square	2 50
One quarter (3 months), per square	7 50

Advertisements of great length, or of special character, inserted by contract on the most favorable terms.

☞ *Ten lines of solid advertising type constitutes a square.* ☜

Terms of Subscription.

THE MINING AND SCIENTIFIC PRESS is published every Saturday morning (containing sixteen pages—size of *Harper's Weekly*) at the following rates:

One copy, one year, by mail, in advance	$5 00
One copy, six months, by mail, in advance	3 00
One copy, one year, by express	6 50
One copy, six months, by express	3 50
Five copies, one year, by mail, in advance	20 00
By city carriers, per month	50
Single copies	12½
Monthly Series (or parts), containing 4 Nos	50
Monthly Series, containing 5 Nos	62½

THE CIRCULATION of the PRESS, already extensive, is rapidly increasing, and substantial men who can profit by widely disseminating information of their business amongst the most intelligent, influential and industrial classes of the Pacific States and Territories will find no more effectual or economical medium for advertising

DEWEY & CO., Proprietors.

Patent Agency and Job Printing Office, 505 Clay street, San Francisco. July 1 1865

Just and True Economy

IN MINING ADVERTISING.

The Proprietors of the MINING AND SCIENTIFIC PRESS would call the especial attention of MINING SECRETARIES, TRUSTEES and SHAREHOLDERS, to a few substantial reasons for the publication of Mining Notices in their journal—the first and only important newspaper of its class published upon this coast.

1st. The PRESS enjoys a large and permanent subscription list, having a more universal circulation among shareholders and men intimately connected with mining interests than any other publication.

2d. Under the present law the publication of all mining notices on Saturday, in a weekly journal, complies as fully with the statutes as a daily publication. It is generally found to be equally as convenient for secretaries, and decidedly preferable to stockholders who have not time to examine throughout every issue of a daily.

3d. Economy in mining should always be looked upon with favor, and the cost for weekly advertising in the PRESS is less by ONE HALF than the rates of any other journal in this city possessing a respectable circulation.

4th. The publishers of the PRESS, making the mining interest their especial care, take particular pains to assist in the avoidance of errors in advertising. Our print is also more clear and perfect than can be expected in such papers as are hurriedly issued from cylinder presses.

5th. Our "Shareholders' Directory" forms a complete index of all mining notices published in San Francisco, by reference to which shareholders can at once see if their company is advertised, and determine whether the same is inserted in the PRESS or some other paper.

6th. Many copies of the PRESS are bound by prominent professional men, mechanics, secretaries, brokers, shareholders and others, as an important record for future reference, thereby rendering advertising, of every class, in its columns, of peculiar and permanent value.

7th. The benefit of having all mining notices consolidated in one newspaper, for the common convenience of shareholders, secretaries, and others who have occasion to refer to the same, is obvious. With this view we have established our rates at only fair, living prices, believing that a journal like ours, untrammeled by party, creed, or prejudice, is the only medium which can reasonably ask for such a consolidation of mining patronage.

8th. Advertisements in the columns of the PRESS, after their first insertion, are arranged alphabetically. Our present list is equalled only in one instance by that of any other journal. Shareholders, as well as strangers, naturally turn their attention to a mining journal for information concerns ing the mines and mining matters.

LAST, BUT NOT LEAST.—Our sheet (having been recently enlarged to the size of Harpers' Weekly) is now only equalled in its dimensions by one mining paper in existence—the *London Mining Journal*. Published in this, the greatest mining field of the world, we desire that the PRESS shall have no superior. We can only realize our cherished object of building up a reliable advocate of the science and business of mining, which will be of just honor and profit to our community, by experience and liberal patronage. The bestowal of such favors only as naturally belong to us, and which it is clearly for the benefit of the mining fraternity to extend, is all that is requisite, and we are confident we shall receive it

DEWEY & CO.,

4v11 Office Mining and Scientific Press.

QUARTZ OPERATOR'S HAND BOOK.

A Book for Every Intelligent Prospector, Shareholder, Miner and Machinist.

ZENAS WHEELER AND P. M. RANDALL,

Authors and Publishers.

BOUND IN CLOTH—144 PAGES, DUODECIMO.

THE QUARTZ OPERATOR'S HAND BOOK is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

The work also contains an original and highly interesting discussion of the tractory and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs W. R. Eckart, Jr., Engineer, (late of U. S. N.) and W. M. Belshaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on page 415 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865.

Sold by booksellers generally. Price by mail, postage paid, $1.25. Address "Wheeler & Randall, at the Mining and Scientific Press Office, San Francisco." 2v11

New Volume

OF THE

Mining and Scientific Press

Issued every Saturday. Each number contains 16 pages and 64 columns (size of Harper's Weekly).

PUBLISHED BY

DEWEY & CO.,

Patent Agents, Publishers and Job Prin

505 Clay Street, San Francisco.

THE ELEVENTH VOLUME

Of the MINING AND SCIENTIFIC PRESS commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this journal may be anticipated by its numerous and rapidly increasing readers.

We shall continue to devote a large space in our columns to the various and best methods of treating ores and saving gold and other precious metals in every form, furnishing valuable hints to millmen, prospectors, oil-workers and miners generally, not to be found in any other publication.

New machinery, latest inventions and discoveries, and all matters pertaining to the mechanical, manufacturing and industrial resources of the Pacific States, will receive careful attention.

Stock market reports will be published as received from the official records. Our carefully compiled "Mining Shareholders' Directory" will prove a faithful monitor to parties holding stock, and a desirable record for reference to brokers.

Friends pleased with our efforts in the publication of the PRESS can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and News-dealers, acting as our agents, will receive liberal commissions.

☞ BOUND VOLUMES FOR SALE. ☜

SUBSCRIPTION IN ADVANCE.

One Year, (two volumes)	$6.00
Six Months, (one volume)	3.00

FOR ADVERTISING

Our terms are very reasonable. MINING COMPANIES are especially favored by our rates, and careful attention is given to the legal publication of MINING NOTICES.

OFFICE—No. 505 Clay street, corner of Sansome.

DEWEY & CO., Publishers.

O. W. M. SMITH .....W. B. EWER ....A. T. DEWEY

Franco-American Commercial Co.

SALESROOM,

Bush Street, between the Occidental and Cosmopolitan Hotels.

AGENTS:

NEW YORK—H. B. JONES, No. 659 Broadway.

PHILADELPHIA—BIOREN & CO., Bankers, No. 6 S. Third Street, and J. A. GETZE.

PARIS—P. B. LAFAN,

DUSSELDORFF—E. A. OBER.

THIS COMPANY OPENED THEIR SALESROOM ON Monday, 16th inst., with a large and carefully selected stock of rich goods, consisting of fine gold and diamond-set Watches and Jewelry; Silverware and Silver-plated ware; Pianos; superior Bronze and Ormolu Clocks; Statuettes; valuable Oil Paintings; Bronzes; high cost porcelain Dinner and Tea Sets; Venetian, Bohemian, French and American Cut Glass, in full sets; richly decorated Vases and Mantel Ornaments; Fans, Opera Glasses, Albums, and elegant Fancy Goods in every variety.

The public are respectfully invited to examine this collection of valuable merchandise and works of art. Retail prices have been placed at wholesale rates, and every style of goods will be sold at a small per centage on cost of importation.

16v11-1t **F. A. GETZE, Secretary.**

Lost or Stolen.

There was lost, or stolen, from our collection of minerals, etc., at the Mechanics' Fair, a sample of the late Telegraph Cable. The lost piece is three inches in length, by one and one-sixteenth in diameter; brass ferrel on each end with raised letters, viz: "Glass, Elliott & Co., Contractors, London." Any person who will return the article to this office, or give information of its whereabouts, will be suitably rewarded.

DEWEY & CO.,

Publishers Mining and Scientific Press.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

To Blacksmiths.

An excellent, strong lad, from the interior, 17 years of age, desires to learn the Blacksmith's trade. His parents wish him to engage with a reputable firm, and learn his business thoroughly. Address, or inquire at the office of the MINING AND SCIENTIFIC PRESS. 12v11tf

INTERESTING FOSSIL REMAINS.—The tusk of a fossil elephant was found recently, near Brattleboro, Vermont. It is forty-four inches long and eighteen inches circumference at the larger end, and is in good preservation. This tusk belongs to a species supposed to have been extinct in the earlier periods. The creature is known to naturalists as the *Elephas Primogenius Blumenbach*, formerly inhabiting the northern part of this continent, having wandered across the Siberian plains to the Arctic Ocean and Behring Straits, and thence south to about the fortieth parallel. The animal was about twice the weight and one-third taller than the modern species. The remains of one of these gigantic creatures were found on the summit of Green Mountain, at Mount Holly, in 1818.

The foregoing is especially interesting here, because remains of a similar character are in possession of the Historical Society at Sonora, Tuolumne county. That region has been wonderfully productive of fossil remains, though most of the tusks and bones discovered there have belonged to a smaller species. We think, however, that the venerable Dr. Snell, the President of that Society, informed us that he was also in possession of remains of the fossil elephant, and the object of this paragraph is to obtain the satisfactory and valuable information which he is capable of giving to the public.

IRON BARRELS.—A correspondent at Detroit says that a citizen of that place has obtained a patent for an iron barrel which will be just the thing for petroleum. It weighs sixty pounds and with proper machinery a man can turn out ten or twelve per day.

Metallurgy.

EUROPEAN
METALLURGICAL WORKS,
—AND—
Practical Mining School,
Bryant Street, Between Third and Fourth,
SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. KIMBALL, J. R. MURPHY.
10v10

BOALT & STETEFELDT,
Metallurgists and Mining Engineers
AUSTIN, NEVADA.
Western Branch of ADELBERG & RAYMOND, No. 90 Broadway, New York. 11v11

NOTICE
—TO—
COPPER MINING COMPANIES.

The undersigned offer their services for the construction and working of
Furnaces of the most approved form
And on the most economical principle,
For the reduction of COPPER ORES. For further information apply at the office of the CALIFORNIA COPPER SMELTING COMPANY, No. 540 Clay street (office No. 4), San Francisco.
5v11-tf **R. EMERSON & CO.**

FIRST PREMIUM
FOR REFINING COAL OIL,
At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.
E. BENOIST, Engineer and Chemist,
17v10 643 Third Street, bet. Brannan and Townsend.

NEW DISCOVERY
FOR DESULPHURIZING AND DECOMPOSING
METALLIFEROUS ORES,
—SUCH AS—
Auriferous Sulphurets, Arsenites or Antimonial Telluric, Gold and Silver Ores.

By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by
DANIEL ROSS,
Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me.
EDWARD ARNOLD.
Inventor and Patentee.
Monitor, Alpine county, Cal.
W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11

Professional Cards.

Our Patent Agency.

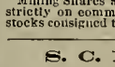
The PATENT AGENCY of the MINING AND SCIENTIFIC PRESS has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of LETTERS PATENT from the United States and foreign Governments cannot be over-rated, and the Proprietors of the Press, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

WM. L. DUNCAN,
Stock Broker,
Member of the San Francisco Stock and Exchange Board,
No. 605 Montgomery Street, San Francisco
Mining Shares and Legal Tender Notes bought and sold strictly on commission. Liberal cash advances made on stocks consigned for sale. 1v11-3m

S. C. BUGBEE & SON,
ARCHITECTS.
DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.
74 and 75 Montgomery Block
SAN FRANCISCO. 25v10-3m

FREDERICK MANSELL.
Mechanical & Architectural Draughtsman,
No. 422 California street, corner of Leidsdorff.
Drawings of MODELS made for parties applying for patents at Washington or London. mar23-tf.

JAMES M. TAYLOR,
Attorney and Counsellor at Law,
COURT COMMISSIONER, appointed by the Fourth District Court, COMMISSIONER OF DEEDS for Nevada and Massachusetts,
Court Block, San Francisco.
Entrances opposite City Hall, Merchant street, and 636 Clay street. 14v11tf

DR. H. AUSTIN,

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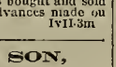
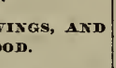

No. 634 Washington Street,
Between Montgomery and Kearny Streets
[OVER SAN FRANCISCO BATHS]
SAN FRANCISCO. 20v10-qy

TEETH

☞ Extracting Without Pain. ☜
Drs. Whitcomb & Dyer,
DENTISTS,
[Successors to W. H. Irwin.]
No. 205 Third Street, near Howard,
v9 SAN FRANCISCO.

N. LOMBARD INGOLS,
Accountant and General Factor,
No. 32 Montgomery Block.
Address, Box 2123, Postoffice, San Francisco. 9v10

OLNEY & CO.,
Real Estate, Stock, and General
Auction & Commission House.
No. 626 Montgomery Street, Montgomery Block.
JAMES N. OLNEY—Auctioneer.
SECRETARIES of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

AUGUST KUNAST,
Stock Broker,
Member of the
San Francisco Stock and Exchange Board,
Buys and Sells Stocks, Bonds, Etc.
Office, No. 540 Washington Street, San Francisco. 2v10

G. F. DEETKEN,
Mining Engineer and Metallurgist,
Address - - - - - San Francisco. 25v9

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for the State of Nevada and the Territory of Arizona,
AND FOR THE
STATES OF MASSACHUSETTS AND MAINE.
Office, Montgomery Block, 626 Montgomery Street, 10v8-2m SAN FRANCISCO.

GEORGE H. BAKER,
Lithographer & Engraver,
No. 522 Montgomery St., San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

SHERMAN DAY,
Mining Engineer,
No. 56 Montgomery Block, San Francisco,
Will examine, survey and report upon mines, and consult and advise concerning investments in mining property, or the machinery management and expenditures of mines. 22q*

Trades and Manufactures.

Pacific Glass Works
Are now prepared to execute orders for the manufacture of
All Kinds of Bottles to Order.
Office, No. 621 Clay street, San Francisco. 3v11-3m

EDWARD BOSQUI & CO.,
PRINTERS,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
No. 517 Clay street, between Clay and Sansome streets, SAN FRANCISCO. 24v10

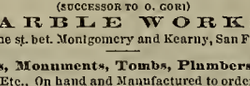
BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery and Sansome, San Francisco. 4v8-tf

JOHN DANIEL,
(SUCCESSOR TO O. GORI)
MARBLE WORKS,
No. 408 Pine st. bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs,
Etc., On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco.
Barstow's Metallic Burial Caskets and Cases.
1tf

THEODORE KALLENBERG,
Maker of Models for Inventors.
MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
No. 418 Market street, San Francisco. n7-tf

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Penn.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco, Cal. 10v8-1m


JAMES MACKEN,
COPPERSMITH,
No. 226 Fremont st., bet. Howard & Folsom.
All kinds of COPPER WORK done to order in the best manner. Particular attention paid to Steamboat, Sugar House and Distillery work.
Repairing promptly and neatly attended to.
13v11

Fire, Hydraulic and Suction Hose
And Leather Belting.
M. M. COOK & SON,
861 Battery Street, San Francisco,
Are now manufacturing as above, Fire, Hydraulic and Suction Hose, and Leather Belting, of any dimension and in any quantity which may be desired. Fire Hose and Belting constantly on hand or manufactured to order. Also Saddles and Horse Collars.
The subscribers would respectfully ask purchasers to call and examine their stock—also testimonials of the efficiency of their work from such as have used their hose both for fire and mining purposes. A diploma was awarded to us last year, by the Mechanics' Institute, of this city, and a silver medal this year. 12v11-1y

NEW YORK PRICES.
WATCH REPAIRING AT NEW YORK PRICES.
C. E. COLLINS,
No. 602 Montgomery street, San Francisco.
EXCLUSIVE AGENT
—FOR THE—
AMERICAN
WATCH FACTORY.
A large assortment of these
Superior Watches,
In Gold and Silver Cases,
Constantly on hand, and sold at Factory prices. Also.
ENGLISH AND SWISS WATCHES,
Imported directly from the Manufacturers.
The American Company are now making
VERY FINE WATCHES FOR LADIES.
☞ A large assortment of Gold Chains and Jewelry. 25v10-6m
WATCH REPAIRING AT NEW YORK PRICES.
NEW YORK PRICES.

I. M. WENTWORTH & CO.,
Manufacturers and Jobbers of Ladies, Misses and Children's
Channel Nailed Boots and Shoes,
Of all descriptions. All Goods warranted as represented. No. 210 Pine street, up stairs.
WANTED—15 or 20 Shoe Bottomers, on Ladies' work. Constant employment will be given to first-class workmen, and the highest wages paid. 13v11

Machinists and Foundries.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.
UNION IRON WORKS!
Corner First and Mission streets,
SAN FRANCISCO.
ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Quartz Mills, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.
Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter. Also, Scott and Eckart's Adjustable Cut-off Regulator—best in use; W. R. Eckart's Balance Valve for Stationary Engines; Woodward's Patent Steam Pump and Fire Engine.

Boilers.
Locomotive, Flue, Tubular, Upright, Cylinder and Cornish, and every variety of Boiler Work. All sizes of tubes and pipes for pumps.

Amalgamating Machinery.
Wheeler & Randall's Improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Beldin's pan, Veatch's tubs, Prater's concentrators, Wahlee's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

BLAKE'S PATENT QUARTZ CRUSHERS, of all sizes.

Oil Boring Tools and Machinery,
Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.
We have the facilities for working gold and silver quartz and other ores, to test their value, by the hundred weight or ton.
Russia Iron Screens, of all degrees of fineness and of all qualities of iron.
All work done in the best manner at the lowest cash prices.
2tv10 **H. J. BOOTH & CO.**

Miners' Foundry
—AND—
MACHINE WORKS,
First St., between Howard and Folsom Streets,
SAN FRANCISCO.

EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as
Steam Engines and Boilers, Flour, Saw and Quartz Mills,
Machinery, Mining Pumps, Amalgamators,
Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.
*** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.
All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.
HOWLAND, ANGEL & KING.

Vulcan Iron Works Company
[ESTABLISHED 1850.]
First, Natoma and Fremont Streets.
IRON FOUNDERS,
Steam Engine and Locomotive
BUILDERS,
Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.
The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as
Mining, Steamship, and Steamboat Machinery,
Railroad Machinery, Flouring Mills,
Locomotives, Quartz Mills,
Car Trucks, Sugar Mills,
Car Wheels, Saw Mills,
Housings and Irons; and
Manufacturing Machinery of Every Kind.

Sole Manufacturers of
HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR.
BEATH'S AMALGAMATOR;
HESSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;
BAUX & CUIOD'S AMALGAMATOR AND SEPARATOR;
FAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;
JONVAL'S IMPROVED WATER WHEEL;
LEFFEL'S AMERICAN DOUBLE TURBINE WATER WHEELS.
STEVEN'S PISTON PACKING RINGS.
They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Crate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.
Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

JOHN P. GALLAGHER. JOSEPH WEED.
GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.
ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Slip Work in general.
☞ All Jobs promptly attended to. Prices moderate. ☜
No. 125 First street, opposite Minna next door to Pacific Foundry. 12tf
[Removed from Oregon street, between Front and Davis.]

FACTS.—It is now well ascertained that most of us eat twice as much as we need, and that ninety out of a hundred diseases are our own making. The gentlemen who whirl about all day in their carriages as if they were rushing to put out a fire, passing from house to house to minister to people afflicted with colds, bilious attacks, headaches, nervous complaints, gout, rheumatism, and the majority of physical ills that afflict humanity, owe their occupation and its profits to the wrongs of the stomach. People treat that vital member, which prepares in its wonderful labratory the streams of life that nourish the whole system, as if it was merely a convenient arrangement for the gratification of the palate and the appetite. As a rule, they don't even take the pains to lighten its labor by making their teeth do the rough part of the work, but bolt their feed, gobbling away as long as a cubic barley-corn of the stomach is left uncrammed. They convert it into an organ of sensual enjoyment, forgetting that its office is to prepare supplies to repair the hourly waste of the body, and that, as these supplies are healthy or unhealthly, so will the body be.

THE vintage is said to have totally failed this year in Hungary.

SANTA CLARA COLLEGE, S. J.,

SANTA CLARA, CAL.

Conducted by the Fathers of the Society of Jesus.

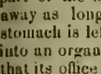
The FIFTEENTH ANNUAL SESSION of this College will commence on

Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months.....$350

For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco.

3v11 REV. A. MASNATA, S. J., President.



CALL STABLE.

N. GISHWILLER

Would respectfully inform the public that he has opened a large and well-arranged LIVERY STABLE,

On B street, Summit City, Cal.,

(two doors below the Lake House), where good Saddle and Buggy Horses can be had at all times. Our charges will be reasonable, and we hope, by prompt attention, to merit a share of the public patronage. 10v11-3m

Dissolution of Partnership.

NOTICE IS HEREBY GIVEN, THAT THE PARTNERship heretofore existing between the undersigned, under the name and style of Fisk & Barber, and doing business as Grocers, is this day dissolved by mutual consent. The business will hereafter be conducted by Fisk & Brown, at the old place, 814 Howard street. The business of the old firm will be settled by Fisk & Brown.

J. M. FISK.
CHAS. J. BARBER.

San Francisco, Sept. 30, 1865. 15v11-4t

LICK HOUSE,

Corner of Montgomery and Sutter streets,

SAN FRANCISCO.

S. ALSTROM AND G. S. JOHNSON, Prop'rs.

This elegant and commodious Hotel is situated on the principal promenade street of San Francisco. The Lick House is finished and furnished with a degree of beauty and excellence unsurpassed, combining all the modern applications and arrangements of a FIRST CLASS HOTEL, thus offering superior inducements to the traveling public. The proprietors assure their patrons that the Lick House shall not be excelled in any of its appointments, or in polite attendance or attention to all the comforts of its guests. 15v11

A CHANCE FOR CAPITALISTS.

The Hinckley Quartz Lead,

Located in Jackson, Amador county, California, containing four hundred feet, is FOR SALE. It has thus far proved to be the richest claim in the county. For further information, enquire on the premises.

Jackson, Sept. 4th, 1865. T. HINCKLEY.

For any further information concerning myself, I will refer (without permission) to A. Hayward, Esq.; Horace Kellum, Esq.; C. W. Rand, U. S. Marshal; Bigelow Bros., Insurance Agents; M. Abrams, Esq. 10v11-4w

LEWIS COFFEY. J. S. RISDON

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

MITCHELL'S

COMBINED

FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with GALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.

San Francisco, Aug. 22d, 1865. 10v11-3m

THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting Machinery of the most approved construction. Flour, Saw and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully solicited.

GODDARD & COMPANY.

BY AUTHORITY OF THE STATE OF CALIFORNIA

Having fully complied with the law by a deposit of **$525,000** bonds of the State of California and the United States

BIGELOW & BROTHER,

GENERAL INSURANCE AGENTS,

FIRE, MARINE AND LIFE INSURANCE,

Capital Represented.....$15,000,000.

California Deposit..... $525,000

Office Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.

LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets	$1,500,000
HOME INSURANCE COMPANY, of New York, Assets	3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets	2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets	1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets	600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets	600,000

CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.

Policies issued on Freights, Cargoes, and Treasure, from and to All Parts of the World. Voyage War Risks taken on Hulls.

Fire Insurance Policies issued on all kinds of Insurable Property in the Country or City. Losses Payable in Gold Coin of the United States.

We represent the Oldest and Best Companies in the United States, and offer as favorable terms as any agency on this Coast.

Losses paid immediately on adjustment.

BIGELOW & BROTHER,

17-6m **General Agents.**

UNION IRON WORKS,

Sacramento.

WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Dunbar's Patent Self-Adjusting Steam Piston PACKING, for new and old Cylinders, manufactured to order.

Front Street, between N and O streets,

14v11 SACRAMENTO CITY.

GEORGE T. PRACY,

MACHINE WORKS,

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

SAN FRANCISCO.

STEAM ENGINE, FLOUR AND SAW MILL And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

☞ Special attention paid to Repairing. ☜ qy-3

PALMER, KNOX & CO.,

Golden State Iron Works,

Nos. 19, 21, 23 and 25 First Street,

SAN FRANCISCO.

MANUFACTURE ALL KINDS OF

MACHINERY,

STEAM ENGINES AND QUARTZ MILLS

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight, without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S

NEW GRINDER AND AMALGAMATOR,

HEPBURN & PETERSON'S

AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

FULTON

Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

SAN FRANCISCO

Foundry and Machine Works,

N. E. Cor. Fremont and Mission streets,

Manufacturers of

Marine and Stationery Engines,

Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.

—ALSO—

Wine, Cider, Cotton and Tobacco Presses of the latest Improved Patterns.

Brodie's Improved Patent WIND BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Baux & Guiol's Amalgamator and Separator; W. W. Tupper's Patent Sectional Grate Bar; Coal Oil Well Boring Machinery complete, on hand.

STEAM ENGINES AND BOILERS,

Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white Iron.

MACHINERY, OF ALL DESCRIPTIONS,

Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates.

6v11-1y **DEVOE, DINSMORE & CO.**

Novelty Iron Works,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY*. Send for a Circular.

E. T. STEEN.

105, 107 and 109 Fremont st., cor of Mission.

SAN FRANCISCO 21v9tfq

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, San Francisco. qy29-t

JOHN LOCHHEAD'S

STEAM ENGINE WORKS,

Beale Street, near Mission Street,

SAN FRANCISCO.

Steam Engines of every description built to order—Marine Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer.

PHILADELPHIA AGENCY,

Parties wishing to subscribe or advertise in the MINING AND SCIENTIFIC PRESS can be accommodated by calling upon our Agent, Mr. TUANKA HAMILTON, at the Assembly Building, 106 South Tenth street, Philadelphia, Pa., where sample copies of our publications can always be found.

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Camargo Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of October, 1865, an assessment of five dollars ($5) per share was levied upon the capital stock of said company, payable immediately, in United States currency, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board af Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. oc21

Chloride Ledge Gold and Silver Mining Company. Location of mine, Blue Mountain District, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 16th day of October, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 606 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order af the Board of Trustees.

R. H. SMITH, Secretary.

Office, No. 506 Montgomery street, San Francisco. ac21

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 18th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Adams, Mrs. Anna	not issued	5	5 00
Ament, H E	159	5	5 00
Brown, Thomas	149	5½	6 00
Brown, Thomas	not issued	4	4 00
Brown, Mrs L C	142	5	5 00
Bluman, F	378	5	5 00
Bowland, Wm	364	5	5 00
Coon, M R	47	50	50 00
Coan, M R	51	8	8 00
Coen. M R	351	5	5 00
Coon, M R	352	4	4 00
Curley, James	384	5	5 00
Coruwell, J F	40, 41, 42, 43 10-ea	40	40 00
Castle, Levi	191	5	5 00
Demming, Wm	73	10	10 00
Dutton, D	38	9	9 00
Dutton, D	369	15	15 00
De Groff, Wm	70, 71, and 405 10 ea	30	30 00
De Groff, Wm	404	15	15 00
Farmer, L	not issued	1	1 00
Grigsby, T L	93	10	10 00
Grigsby, A D	95	10	10 00
Grigsby, R F	94	10	10 00
Grigsby, A F	not issued	4	4 00
Griffith, Wm P	228	10	10 00
Griffith, Wm P	227 and 228 5-ea	10	10 00
Gardner, C A	278	2	2 00
Hendriksen, H	123	5	5 00
Hollingsworth, H	161	5	5 00
Hastie, Robert	341	10	10 00
Hastie, Robert	353	5	5 00
Joy, M	not issued	13½	14 00
Jones, Wm	224, 225, 273 and 274 5-ea	20	20 00
Jones, Wm	223 and 285 10-ea	20	20 00
Justice, J D	308	5	5 00
Klepsig, J C E	91	4	4 00
Kerchoval, S A	313	10	10 00
Mead, Johanna	5	5	5 00
Mudgett, John	121 and 321 6-ea	10	10 00
Morrison, James	144	5	5 00
Mercer, Mrs Susan	382	10	10 00
McGovern, P H	300 and 305 5-ea	10	10 00
Miller, John	254	5	5 00
McCuen, J H	304	10	10 00
Marks, M	286	5	5 00
McCord, James H	401	1	1 00
Pearson, I N	114, 115, 163, 375 and 376 5-ea	25	25 00
Pearson, I N	370	20	20 00
Pearson, I N	372, 373 and 374 10-ea	30	30 00
Pearson, I N	371	1	1 00
Palache, E	97 and 213 5-ea	10	10 00
Palache, E	284	10	10 00
Senter, Riley	293	20	20 00
Stall, John	not issued	1	1 00
Townsend, T B	210	10	10 00
Vaan, Matthew	not issued	5	5 00
Wlues, Charles B	120	5	5 00
Winnie, J P	188	10	10 00
Winnie, J P	189	8	8 00
Winnie, J P	190	2	2 00
Winnie, Mrs E G	185 and 187 5-ea	10	10 00
Wyckoff, J L	18	10	10 00
Whitton, Green	125 and 127 5-ea	10	10 00
Whitten, C J	76	10	10 00
Whitton, R J	409	10	10 00
Whitton, R J	410, 411 and 412 5-ea	15	15 00
Whitton, R J	84	3¾	4 00
Whitton, Wm H	78	12	12 00
Whitton, Wm H	330 and 331 10-ea	20	20 00
Whitton, Wm H	332	7	7 00
Whitton, Wm H	333	5	5 00
Whitton, Wm H	339	40	40 00

And in accordance with law, and an order of the Board of Trustees, made on the 18th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of Messrs. Olney & Co., No. 628 Montgomery street, San Francisco, Cal., on the 6th day of November, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.

Office, 338 Montgomery street, San Francisco. oc21

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three months' delay requisite in transacting business through Eastern agencies.

Hornet Gold and Silver Mining Company. Location of works, Lander County, Nevada.

Notice is hereby given, that in accordance with an order made this day by the Board of Trustees of the Hornet Gold and Silver Mining Company, there will be sold at public auction, at the office of the Company, 402 Front street, by Jones & Bendixen, auctioneers, on Tuesday, the 21st day of November, 1865, at 1 P. M. of that day, to the highest bidder, for cash, in United States coin, so many shares of the capital stock of said company standing in the names of the following shareholders as will be necessary for the payment of an assessment of fifty cents per share, duly levied thereon by the Board of Trustees, on the 15th day of February, 1854, together with expenses of advertising and sale, to wit:

Names.	No. Certificates.	No. Shares.	Amount.
Argyras, B	88	5	$2 50
Addleberger, C F	8, 9, 10 each	10	15 00
Addleberger, C F	14	5	2 50
Baker, Fred	28, 29, 30, 32 each	10	20 00
Baker, Fred	35, 36, 37 each	5	7 50
Brown, W J	85	20	10 00
Casen, J D	76	10	5 00
Casen, J D	77	12½	6 25
Coddington, Geo W	66	20	10 00
Kerley, J C	38, 39 each	20	20 00
Kerley, J C	40, 41, 42 each	10	15 00
Kerley, J C	43	5	2 50
Kerley, J C	44	6	3 00
Massey, J M	53, 55 each	22½	22 50
Massey, J M	56	12½	6 25
Massey, J M	57	20	10 00
Massey, J M	60	10	5 00
Massey, J M	62	5	2 50
Rumsey, L W	72, 73, 74 75 each	10	20 00
Roman, Herman	87	19	9 50
Simpers, Geo W	81	20	10 00
Simpers, Geo W	82, 83, 84 each	10	15 00
Todd, Jos	1, 2, 3, 4, 5 each	10	25 00
Todd, Jos	6	12½	6 25
Todd, Jos	7	5	2 50
Tureman, C W	78	20	10 00
Tureman, C W	78, 80 each	10	10 00
Weltou, E W	48, 49, 50, 51, 52 each	10	25 00
Wade, J P	63, 64 each	5	5 00
Wade, J P	65, 66, 67 each	10	15 00
Campbell, M	89, 90 each	5	5 00

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco.

San Francisco, Oct. 19, 1865. oc21

Keoknk Gold, Silver and Copper Mining Company, Clayton Mining District, Contra Costa County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of October, 1865, an assessment of ten (10) cents per share was levied upon the capital stock of said Company, payable on the 21st day of October, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, 308 and 310 Front street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 4th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

A. B. WINEGAR, Secretary.

Office, 308 and 310 Front street, San Francisco, Cal. oc21

Maria Silver Mining Company, Chihuahua, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of October, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, in this city.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

AUGUST KUNAST, Secretary.

Office, 540 Washington street, San Francisco, Cal. oc21

Ontario Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 19th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
T A Waterman	94	4	$2 00
T A Waterman	105	10	5 00
Wm Bell	166	1	50
R S Eells	67	5	2 50
R S Eells	68	5	2 50
R S Eells	69	5	2 50
R S Eells	70	5	2 50
R S Eells	71	5	2 50
R S Eells	72	5	2 50
D Rose	220	5	2 50
D Rose	222	5	2 50
G A Pitney	290	10	5 00
G A Pitney	291	10	5 00
J W Dunham	310	10	5 00
E S Webber	313	5	2 50
G W Mason	314	10	5 00
E Stable	315	10	5 00
J H Tuber	319	3	1 50
J D Chace	193	5	2 50
J D Chace	198	5	2 50
J D Chace	237	10	5 00
J D Chace	238	10	6 00
J D Chace	239	10	5 00
J D Chace	241	5	2 50
J D Chace	242	5	2 50
J D Chace	244	5	2 60
J D Chace	246	5	2 50
J D Chace	309	2	1 00

And in accordance with law, and an order of the Board of Trustees, made on the 19th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on the 6th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

A. H. BEWLEY, Secretary.

Office, 323 Montgomery street. oc21

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible.

Old Colony Gold and Silver Mining Company—Location af works, Austin, Reese River, Nevada

NOTICE.—There are delinquent upon the following described stock, on account of an assessment levied on the 12th day of September, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
F J Thibault	41	40	$240 00
H F Cutter	35	50	300 00
H F Cutter	39	25	150 00

And in accordance with law and an order of the Board of Trustees, made on the 12th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at 523 Montgomery street, San Francisco, on the 25th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

H. O. HOWARD, Secretary

Office, No. 523 Montgomery street, San Francisco.

POSTPONEMENT.—The above sale is hereby postponed until Wednesday, November 1st, 1865, at the same hour and place. By order of the Board of Trustees.

oc21 H. O. HOWARD, Secretary.

Wide West Mining Company, Esmeralda District, Esmeralda County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of October, 1865, an assessment of five ($5) dollars per share was levied upon the capital stock of said Company, payable immediately, in gold coin of the United States of America, to the Secretary, at the office of the Company, No. 103 California street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 4th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale.

J. P. DAVIS, Secretary.

Office, 103 California street, San Francisco. oc21

Yosemite Mining Company, Oro Fino District, Humboldt county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 20th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Chandler, Theo S	121	10	$12 50
Folsom, A	70	25	31 25
Folsom, A	71	25	31 25
Folsom, Mrs R A	87	25	31 25
Huntington, U	67	25	31 25
Huntington, H S	85	100	125 00
Hedges, W H	49	5	6 25
Hedges, W H	50	15	18 75
Hedges, N M	61	35	43 75
Harmon, E F	91	25	31 25
Haliburton, A	93	25	31 25
Merchant, Joel	50	5	6 25
Merchant, Joel	51	5	6 25
Merchant, Joel	79	20	25 00
Merchant, Joel	140	4	5 00
Whitter, J M	130	10	12 50
Wheaton, Thos	56	25	31 25
Wheaton, Thos	57	25	31 25
Wheaton, Thos	58	25	31 25
Wheaton, Thos	59	25	31 25
Wade, W N	142	220	275 00
Woodman, W W	77		
Woodman, W W	125	10	12 50
Woodman, W W	126	5	6 25
Woodman, W W	139	5	6 25

And in accordance with law, and an order of the Board of Trustees, made on the 20th day of September, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Company, by Jones & Bendixen, auctioneers, on Monday, the 6th day of November, 1865, at the hour of 12½ o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

S. O. PUTNAM, Secretary.

Office, 402 Front street, San Francisco. ac21

Mining Notices--Continued.

New Mining Advertisements to be found under another heading.

Apollo Gold and Silver Mining Company. Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	Na. Shares.	Amount.
Bradley, H W	24	5	$2 50
Buel, D E	8	10	5 00
Buel, D E	11	10	5 00
Buel, D E	12	10	5 00
Buel, D E	13	10	5 00
Buel, D E	14	10	5 00
Buel, D E	15	10	5 00
Buel, D E	17	10	5 00
Buel, D E	18	10	5 00
Chevers, W H	30	5	2 50
Doitrich, W R	62	5	2 50
Filton, James	73	10	5 00
Filton, James	74	10	6 00
Filton, James	75	5	2 50
Harrington, W C	102	1	50
Hildreth, H P	79	112	56 00
Jacobs, N B	40	3	1 50
Loppieu, Fred	43	3	1 50
Loppien, Fred	96	12½	6 25
Lendenberger, T E	1	1½	75
Light, C H	21	9¾	4 69
Litchfield, W D	45	1½	75
Litchfeld, W D	97	1½	75
McMarcus, M	94	9¾	4 69
Smith, A N	54	25	12 50
Waterman, E R	30	3	1 50
Wilton, E W	60	20	10 00
Wightman, John	27	11	5 50
Work, Geo	32	5	2 50
Work, J W	41	3	1 50

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Joues & Bendixen, auctioneers, at the office of the Company, on the 23d day of October, 1865, at the hour of 1¾ o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSEIT, Secretary.

Office, 402 Front street, San Francisco. oc7

Ator Gold and Silver Mining Company, Gold Hill Mining District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of October, 1865, an assessment of one dollar and fifty cents ($1.50) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, No. 435 Jackson street, San Francisco, or to E. A. HYDE, Superintendent, Gold Hill.

Any stock upon which said assessment shall remain unpaid on Saturday, the 11th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 27th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order af the Board of Trustees.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco. ac14

Blue Ledge Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount
Abrams, M	192	5	$2 50
Allen, H H	112	12½	6 25
Allen, H H	123	2	1 00
Armer, Max	75	5	2 50
Ayers, W O	107	10	5 00
Blake, G M	101	2	1 00
Blake, G M	172	1	50
Backman, D	163	20	10 00
Bowman, Jao F	74	5	2 50
Dettleback, S M	10	2½	1 25
Dettleback, S M	115	5	2 50
Drinkiespiel, L	133	5	2 50
Frank, J	125	10	5 00
Frank, J	173	2½	1 25
Greene, S H	4	10	5 00
Greene, S H	81	2	1 00
Harrington, W C	200	1	50
Harrington, W C	209	20	10 00
Haas, C S	159	8¾	4 37
Heath, R W	5	20	10 00
Heath, R W	86	2	1 00
Heath, R W	111	12½	5 25
Heineburg, A	174	2½	1 25
Herman, S	141	5	2 50
Jacobs, N B & Co	171	4	2 00
Lepplen, Fred	85	2	1 00
Levy, Isaac	156	10	5 00
Levy, Isaac	157	10	5 00
Levy, Isaac	158	5	2 50
Litchfield, W D	97	1	50
Litchfield, W D	201	1	50
Marks, S	103	5	2 50
Manheim. —	161	5	2 50
Meyer, Eugene	145	3	1 50
Meyerfeld, M	139	10	5 00
Meyerfeld, M	179	10	5 00
Roseubaum, F H	11	2½	1 25
Simonsfeld, Julius	99	5	2 50
Sinsheimer, S	180	2	1 00
Sharp, H	139	3	1 50
Smith, A N	17	25	12 50
Strauss, M	98	5	2 50
Strauss, M	168	3¾	1 87
Strauss, M	175	5	2 50
Stateler, J W	134	10	5 00
Stateler, J W	135	10	5 00
Stateler, J W	136	10	5 00
Stateler, J W	137	10	5 00
Stateler, J W	138	10	5 00
Watriss, Geo E	207	34 13-16	17 40
Waterman, E R	155	2	1 00
Wensinger, F S	7	20	10 00
Weill, Alex	62	5	2 50
Weill, Alex	103	2½	1 25
Weill, Alex	117	2½	1 25
Wightman, Jeo	83	4	2 00
Winans, John C	94	1	50
Work, J W	87	2	1 00
Woodleaf, H	126	10	6 00
Woodleaf, H	127	10	5 00
Solomon, Sylvan	119	1	50

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Jones & Bendixen, at the office of the Company, on the 24th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. oc7

Black Ledge Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upan the following described stock, on account of assessment levied an the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount
Ayres, W O	93	27	$54 00
Bonestel, C D	172	10	20 00
Bonestel, C D	173	10	20 00
Bonestel, C D	174	10	20 00
Bonestel, C D	175	10	20 00
Bonestel, C D	176	10	20 00
Bonestel, C D	177	10	20 00
Chevers, Wm H	25	5	10 00
Deitrich, W K	28	5	10 00
Pawley, H L	99	5	10 00
Gayle, A B, trustee	169	8	16 00
Gayle, A B, trustee	185	2	4 00
Gayle, A B, trustee	186	50	100 00
Gayle, A B, trustee	189	9	18 00
Grendolfo, A R	115	12	24 00
Harker, W B C	35	2	4 00
Harrington, W C	101	70	140 00
Harmon, F H	150	10	20 00
Heath, R W	16	8	16 00
Jacobs, N B	52	2	4 00
Knox, J W	155	2	4 00
Laforge, A B	188	25	50 00
Leppien, Fred	55	2	4 00
Litchfield, W D	57	1	2 00
Litchfield, W D	151	1	2 00
Morrisou, J C Jr	49	15	30 00
McManus, M	109	6¼	12 50
Nicol, W	91	1	2 00
Owen, L C	157	6	10 00
Rosenbaum, F H	90	6	10 00
Stateler, J W	70	25	50 00
Townsend, Jas B	142	13	25 00
Waterman, E R	51	2	4 00
Whito, Joseph	97	15	30 00
Winans, Jno C	62	1	2 00
Work, J W	53	2	4 00
Work, Geo	27	5	10 00
Work, Geo	107	5	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Jones & Bendixen, at the office of the Company, on the 24th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. oc7

Bolinas Petroleum Company, Bolinas Township, Marin County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 2d day of October, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said company, payable on the 4th day of October, 1865, in United States gold and silver coin, to the Secretary, 611 Clay street, Room 8, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 4th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 20th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. L. KIRBY, Secretary.

Office, 611 Clay street, San Francisco, Cal. oc7

Bella Vista Gold and Silver Mining Company, Cacachilla District, Lower California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
C Perkins	161	23	0 90
Augus Cameron	118, 110, 120 121, 122, 123, 124,	65	19 50
W Mulford	89, 90, 01, 92, 93 94, 180	75	22 50
R Hortou	22, 23, 24, 25, 26, 27 28, 153, 179	100	30 00
J C Howard	130	18	5 40
E Dutton	191	21	7 20
Henry Dutton	192	40	12 00
Henry Dutton	193	30	9 00
Kate Kelly	98	18	5 40
James Sheny	hal of 156	1	30
S Johnson	162	22	6 00
R Kuenzi	170	10	3 00

And in accordance with law, and an order of the Board of Trustees, made on the 9th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on the 8th day of October, 1865, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. FULLER, Secretary.

Office, 328 Clay street, San Francisco, Cal. oc14

Colorado Mill and Mining Company.

The Annual Meeting of the Stockholders of the above Company, for the election of a Board of Trustees for the ensuing year, will be held on Monday, November 13th, 1865, at 7 o'clock P. M., at the office of the Company, 509 Clay street, San Francisco, California.

G. M. BURNHAM, Secretary.

San Francisco, Oct. 12, 1865. oc14

Notice.—The Annual Meeting of the Stockholders of the Caledonia Tunnel and Mining Company, for the election of Trustees for the ensuing year, will be held at the office of the Secretary, on Monday, November 13th, at 3 o'clock P. M.

J. M. BUFFINGTON, Secretary.

San Francisco, Oct. 13, 1865. oc14

Comet Petroleum Company, Humboldt County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 13th day of October, 1865, an assessment of thirty (30) cents per share was levied upon the capital stock of said Company, payable on the 4th day of October, 1865, in United States gold and silver coin, to the Secretary, at the office of said Company, in San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 4th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

L. CROSBY, Secretary.

Office, No. 36 Exchange Building, N. W. corner Washington and Montgomery streets. oc14

Evoca Consolidated Copper Mining Company, Court Hill District, near Black's Ferry, Del Norte County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of October, 1865, an assessment of fifty (50) cents per share was levied upon the assessable capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 302 Montgomery street City and County of San Francisco, California.

Any stock upon which said assessment shall remain unpaid on the 4th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 20th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

CHARLES E. ABBOT, Secretary.

Office, 302 Montgomery street, Room 6, third floor, San Francisco, Cal. oc7

Edward Everett Silver Mining Company, Cortez Mining District, Lander county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 15th day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
A Veatch	not issued	200	40 00
B Bee	not issued	155	31 00
S Currie	not issued	200	40 00
J Newmark	not issued	200	40 00
Wm. Rowland	not issued	20	4 00

And in accordance with law, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on the 28th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. H. BURTON, Secretary.

Office, Room No. 4, N. W. Corner Clay and Front streets San Francisco, Cal. oc14

Good Hope Gold and Silver Mining Company, Alpine District, Alpine County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 11th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
D A Hopkins	108	30	$15 00
I Blum	70	10	5 00
Wangenheim & Blum	300	5	2 50
L Weil	81	25	12 50
G F Brown	343	20	10 00
Geo Lowo	122	10	5 00
J W Harvey	202	10	5 00
Peter Boyle	124	10	5 00
B F Perils	129	10	5 00
S Magincss	130	10	5 00
W A Johnson	165	10	5 00
W A Johnson	238	5	2 50
A H Bates	138	10	5 00
J Brady	141	10	5 00
Chas Slackpole	164	10	5 00
E Ganoung	171	5	2 50
Mary Rendy	351	10	5 00
D C Mitchell	181	5	2 50
J Evans	187	15	7 50
A Tournell	195	5	2 50
A Tournell	217	5	2 50
Chas Wolfer & Co	192	15	7 50
L J Simmons	207	28	14 00
A L Marsden	354	5	2 50
J T Sprout	232	5	2 50
J M Johnson	249	10	5 00
W C Jewell	251	5	2 50
D Collier	266	25	12 50
D Collier	068	10	5 00
D Collier	269	10	5 00
J H Haynes	284	15	7 50
J H Haynes	285	10	5 00
J Tuite	280	10	5 00
J Tuite	281	9	4 50
J Tuite	282	5	2 50
W H French	201	5	2 50
W Prusser	308	5	2 50
J R Palmer	309	5	2 50
Geo Herman	314	5	2 50
C Wrigley	316	10	5 00
H J Olds	330	5	2 50
H R Townsend	350	20	10 00

And in accordance with law and an order of the Board of Trustees, made on the 11th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Company, 526 Montgomery street, San Francisco, on the 28th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

PRESTON MORRIS, Secretary.

Office, 526 Montgomery street, San Francisco. oc14

Honest Miner Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 28th day of September, 1865, an Assessment of 50 cents per share was levied upon the Capital Stock of said Company, payable on the 30th day of September, 1865, in United States gold and silver coin, to the Secretary, 402 Front Street, San Francisco.

Any stock upon which said Assessment shall remain unpaid before Saturday, the 28th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 13th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front Street. se21

Hanacom Copper Mining Company, Low Divide District, Del Norte county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of October, 1865, an assessment of fifteen cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, 609 Market street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 11th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 27th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

S. S. SWEET, Secretary.

Office, 609 Market street, San Francisco, Cal. oc14

Joe Lane Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Allen, H H	31	10	$5 00
Austin, C H	130	8	4 00
Ayres, W O	04	75	37 00
Baker, Fred	105	10	5 00
Baker, Fred	106	10	5 00
Baker, Fred	107	10	5 00
Baker, Fred	108	10	5 00
Bell, S B	124	10	5 00
Buel, D E	135	1	50
Carroll, F P	119	90	45 00
Carroll, F P	131	20 13-18	10 40
Cheyers, W H	12	5	2 50
Dawley, H L	132	20	10 00
Deltrich, W K	36	5	2 50
Filton, Jas	75	10	5 00
Filton, Jas	76	10	5 00
Filton, Jas	77	5	2 50
Gentry, Ahasr	84	25	12 50
Harrington, W C	143	20	10 00
Hall, J J	127	10	5 00
Heath, R W	6	9	4 50
Heath, R W	92	25	12 50
Jacobs, N B & Co	89	7	3 50
Knox, J W	128	10	5 00
Leppien, Fred	5	2	1 00
Litchfield, W D	120	1	50
Litchfield, W D	19	1	50
McManus, M	104	6¼	3 12
Nicol, W	93	1	50
Rosenbaum, F H	91	4	2 00
Stateler, J W	128	25	12 50
Spire, C D	123	2	1 00
Waterman, E R	78	2	1 00
Watriss, Geo E	140	25	12 50
Weltoa, E W	88	25	12 50
Wigbtman, Jno	10	9	4 50
Work, Geo	14	5	2 50
Work J W	18	2	1 00

And in accordance with law and an order of the Board of Trustees, made on the 4th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Jones & Beadixeu, at the office of the Company, on the 23d day of October, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. oc7

Jewett Gold and Silver Mining Company, Gold Hill District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 11th day of October, 1865, an assessment of one ($1) dollar per share was levied upon the assessable capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Friday, the 10th day of November, 1865, will be advertised as delinquent, and unless payment shall be made before, will be sold on the 25th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

O. M. BURNHAM, Secretary pro tem.

Office, 509 Clay street. oc14

Knox Gold and Silver Mining Company, Silver Mountain District, Alpine County, California:

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of October, 1865, an assessment of forty (40) cents per share was levied upon the capital stock of said Company, payable on the said 7th day of October, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, No. 2 Odd Fellows' Hall, in the City and County of San Francisco.

Any stock upon which said assessment shall remain unpaid on the 11th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

SAMUEL P. HOWES, Secretary.

Office, No. 2 Odd Fellows' Hall, San Francisco, Cal. oc14

Mammoth Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Assessment No. 5.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of September, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, only, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 21st day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 6th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary,

Office, removed to 338 Montgomery street, San Francisco. se23

POSTPONEMENT.—The advertisement of stock delinquent on the above assessment is hereby postponed until Saturday, the 28th day of October, 1865, and the sale thereof until Monday, November 13th, 1865. By order of the Board of Trustees.

oc21 W. D. ROOT, Secretary.

Oroville Gold and Silver Mining Company, Oroville, Butte County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of October, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 434 California street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 2d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

oc14 ROBT. P. LEE, Secretary.

Segregated Belcher Mining Company, Gold Hill District, Storey County, Nevada.

NOTICE.—There are delinquent upon the following described Stock, on account of Assessment levied on the 7th day of September 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Burke, E R	2 3 4 5 8 7 8 9 10 100-ea	900	$1800 00
Burke, E R	11 12 13 10-ea	30	60 00
Burks, E R	14	3	6 00
Blasdell, H G	43 44 45 48 47 48 49 50 20-ea	160	320 00
Blasdell, H G	51 52 53 54 55 50 57 58 10 ea	80	180 00
Blasdell, H G	50 60 61 62 63 64 65 88 87 68 69 70 5-ea	60	120 00
Blasdell, H G	71 72 73 74 5-ea	20	40 00
Liviugston, F	85 86 200-ea	400	800 00
Wheeler, C T	20 21 22 23 24 40-ea	200	400 00
Wheeler, C T	25 26 27 28 29 30 31 32 33 34 20-ea	200	400 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, at the salesroom of J. Middleton & Son, 404 Montgomery street, San Francisco, on the 23d day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

JOHN F. LOHSE, Secretary.

Office, 318 Montgomery street, up stairs. oc7

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of September 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the 25th day of October, 1865, in United States gold and silver coin, to the Secretary, at his office, No. 228 Front street, San Francisco, Cal., or to GEO. T. TENNY, Superintendent, Austin, Lander county, Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 28th day of October, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 15th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

E. J. DRINKHOUSE, Secretary.

Office, No. 228 Front street, San Francisco, Cal. se30

Notice.—The Stockholders of the San Fernando Petroleum and Mining Company are requested to attend a meeting at the Office of the Company, on the first Monday in October, for the purpose of electing officers for the ensuing year.

A. N. CLARKE, Secretary.

ADJOURNMENT.—The above meeting was adjourned by a minority of the Stockholders, to the first Monday in November.

A. N. CLARKE, Secretary.

Office, 121 Montgomery street, San Francisco. oc7td

Walipi Gold and Silver Mining Company, (Moss Lode,) San Francisco Mining District, Arizona Territory.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 12th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
F A Walton	26	50	$50 00
F A Walton	27	50	50 00
F A Walton	28	20	20 00
F A Walton	29	20	20 00
F A Walton	30	20	20 00
F A Walton	31	20	20 00
F A Walton	32	10	10 00
F A Walton	33	10	10 00
Nathan H Vosler	44	10	10 00
Nathan H Vosler	45	10	10 00
Nathan H Vosler	46	5	5 00
Nathan H Vosler	not issued	175	175 00
Jobu Harris	41	10	10 00
Imogen R Levi	43	5	5 00
C H Dorlon	51	25	25 00
Davis G Vinson	not issued	200	200 00

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., at No. 026 Montgomery street, San Francisco, California, on Monday, the 30th day of October, 1865, at the hour of one o'clock, P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

H. B. CONGDON, Secretary.

Office, 020 Washington street (Room 5), San Francisco, Cal. oc14

Wide West Gold and Silver Mining Company, Silver Mountain District, Alpine County, California.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 12th day of September, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Anthony, A	180	5 bal	$2 60
Brown & Kent	264	5	5 00
Bost, Reuben	8, 8, 135, 137, 139, 140 141, 142, 143, 144, 148, 147, 148, 150. 151, 152, 153, 154 155 5-ea	95	95 00
Bost, Reuben	156, 16, 163, 185, 166 10-ea	50	50 00
Bost, Reuben	257, 250 31-ea	02	82 00
Barnes, W A	227	10 bal	5 00
Crawford, John	84, 85, 86, 87, 88, 00, 91, 92, 93 5-ea	45	45 50
Crawford, John	83, 97, 98, 99 10-ea	40	40 00
Dayley, James	185	10	10 00
Davis, J F	214	10	10 00
Davis, J F	215, 210. 217, 218, 219 220, 221, 222 5-ea	40	40 00
Edsall, S B	not issued	150	150 00
Earl, Thomas	238	15 bal	7 50
Fido, Wm	not issued	200	200 00
Grayham, T B	72	10	10 00
Johnson, H	not issued	5	5 00
Johnson, H	271	5	5 00
McGee James	not issued	5	5 00
McManes, Dr	258	31 bal	15 50
McManes, Dr	260	32 bal	13 00
McGimsey, J A	30	10 bal	5 00
McGimsey, J A	33	5 bal	2 50
McGimsey, J A	34	8 bal	3 00
McGimsey, J A	not issued	12 bal	6 00
McDonald, Donald	234	10 bal	5 00
McSpadden, J O	201	10 bal	5 00
Porterfield, H	178	10	10 00
Rickman, T H	124, 125, 126 5-ea	15	15 00
Rickman, T H	128	10	10 00
Rickman, T H	129	8	8 00
Rickman & Sewell	132, 133 10-ea	20 bal	15 00
Stephens, Andrew	158	20 bal	10 00
Stephens, Andrew	not issued	115 bal	57 50
Stillwagon, W W	287	10 bal	5 00
Vann, T	270	10 bal	5 00
West, W C	263	5 bal	2 50

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of September, 1865, so many shares of each parcel of said stocks as may be necessary, will be sold at public auction, at the auction rooms of Messrs. Olney & Co., 328 Montgomery street, on the 30th day of October, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.

Office, 338 Montgomery street. oc14

Yankee Blade Tunnel Company, Reese River District, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 1, levied on the 15th day of January, 1864, and assessment No. 2, levied on the 4th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Assessment No. 1, levied January 15, 1864—

Names.	No. Certificates.	No. Shares.	Amount.
C B Harwood	not issued	200	$100 00
T F Gould	not issued	200	100 00

Assessment No. 2, levied Sept. 4, 1865—

Names.	No. Certificate.	No. Shares.	Amount.
C B Harwood	not issued	200	$60 00
C B Harwood	8 & 9 50-ea	100	30 00
J F Durkin	not issued	100	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 4th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Secretary, 305 Montgomery street, San Francisco, by Olney & Co., auctioneers, on the 27th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, San Francisco, Cal. oc7

A VINEGAR MAKING ANIMAL.—Foremost among the fasbionable arrivals in Paris must be recorded those of a couple of curious creatures from China. They are now receiving company at the Jardin d'Acclimatization. One is a tortoise, or small turtle, with green hair flonting out from under his shell. The otber creature is a hideous, revolting-looking polypus, endowed with the peculiar nttribute of making vinegar. This remarkable monster is tbus described:

"The Tsoundodyde is deserving of particular mention from its power of making vinegar. The polypus is a monstrous assemblnge of fleshy membranes and glutinous tubes, and a mass of mis-shapen nppendages, which gives it a revoltiug and hideous aspect. You will suppose it to be lifeless, but, if you touch it, it writhes and assumes various forms, proving its vitality. The structure of this creature is but little known."

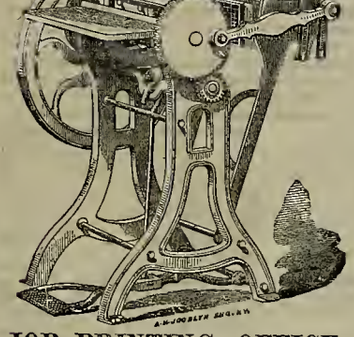
COAL is more plentiful in the United States —and more expensive—than in any other country.

STILL PROGRESSING!

THE OFFICE OF THE

Mining and Scientific Press

was removed, April 8, to the old printing stand lately known as Waters Bros. & Co.'s, southwest corner of Clay and Sansome streets (one block south of our former location), where we have consolidated with a



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CHEAP, RAPID AND FINE PRINTING.

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LAW BRIEFS,
MINING CERTIFICATES,
PETROLEUM CERTIFICATES,
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BOOKS,
PAMPHLETS,
CARDS,
CIRCULARS,
MINING REPORTS.

Orders from the Interior will receive prompt attention. We shall take care to secure correctness in all work executed for parties out of town. Small packages will be forwarded by mail at our expense.

City customers, or persons visiting San Francisco, are invited to call and examine our specimens, when they will be politely informed of our prices by the Proprietors.

E. D. WATERS, JR., C. W. M. SMITH, } Proprietors. { W. B. EWER, A. T. DEWEY,

To Mining Companies.

A GENTLEMAN OF MUCH EXPERIENCE AS A MINing Superintendent, in England, Spain, and on the Pacific coast, and one intimately acquainted with every department of mining, and with nearly every class of mineral, is desirous of securing a position as Superintendent of some mining operation in California or Nevada. The applicant was for four years Superintendent of the New Almadon Quicksilver Mine, in this State. The best of reference given on application at this office.
San Francisco, Oct. 12, 1865. 15v11tf

"Patent Paper Reel for Telegraph Register."

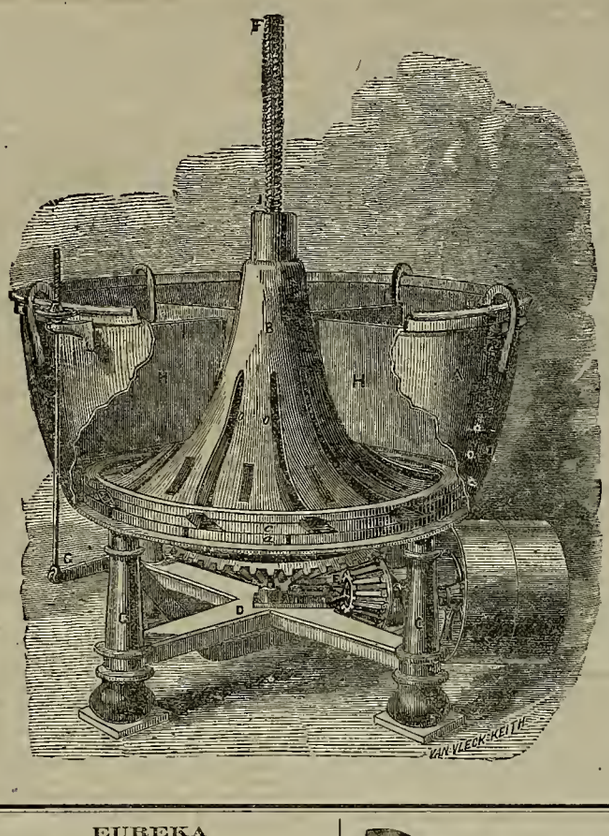
SAN FRANCISCO, Sept. 18, 1865.

EDS. MINING AND SCIENTIFIC PRESS—*Sirs:*—Having noticed the above heading in your valuable paper of the 9th inst., I beg leave to inform you that the invention is not Mr. L. W. Worth's, but one already patented by me, while a resident of Cleveland, Ohio. His form of reel is one that I first got up in 1863, and filed a caveat for, and afterwards improved by putting some gearing, or clock machinery, so as not to use so much cord. The length of cord that I use now to run all day, would not run his reel one hour. After making my improvement, I applied for a patent, which was granted to me on the 19th of January, 1864. That patent covers all of his, so-called, improvement, as will be seen by my patent (No. 41,312) which claim reads as follows:

"What I claim for my improvement, is the arrangement of the mutually exchangeable reels D and F, in combination with the gears, cord, pulleys, and weight, the several parts being constructed, arranged, and operating as and for the purpose herein set forth."

This patent was obtained for me by Messrs. Brainard & Burridge, of Cleveland, Ohio, Patent Solicitors. And I further state, that all persons wishing to use said Paper Reels, will please to come and make arrangements with me for their use. As for my advantage he has over other reels, it can only be that he has a greater length of cord to to wind up. Those that I built, of his style, before I had mine patented and after I filed a caveat, had all to be exchanged for my new reel. In putting this up it takes only six screws to do the whole business, and takes up so little room that it is quite a convenient and useful instrument.

Address, HENRY McGANN,
12v11 At the Union Works, First st., San Francisco.



THE EXCELSIOR
GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and o, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Traetory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Traetory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

Union Iron Works and Golden State Iron Works,
WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.

EUREKA
PATENT BLASTING POWDER.
Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets.
Room No. 9, with San Francisco Chemical Works,
CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2v11qy

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WILLIAM PENROSE,
Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,
Is prepared to buy in any quantity
COPPER, SILVER, GOLD, LEAD
AND OTHER VALUABLE ORES;
Also Lead Bars Containing Gold and Silver.
☞ Full value paid on delivery in this City. ☜
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Copper, Lead, Gold, Silver,
Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to
THOMAS PRICE,
Agent for Townshend, Wood & Co., Swansea,
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15v10-3m

MARTIN & CO.,
Office, Stevenson House,
Corner California and Montgomery streets (up stairs).
WILL CONTRACT FOR THE
PURCHASE OF COPPER ORES,
Assaying eight per cent. and upwards of Copper to the
We will make advances upon Ores of Copper.
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The patent right for the United States of a valuable invention can be secured at a bargain by applying at this office. The article is one of general application throughout civilization.
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—FOR—
Fall and Winter, 1865,
Will be introduced Aug. 26, at
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HAT MANUFACTORIES,
Nos. 635 & 637 Commercial st., San Francisco,
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Fine Custom Made Clothing
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AT PRICES THAT DEFY COMPETITION.
Our Stock of Clothing Consists of
ALL THE LATEST STYLES
BOTH OF MATERIAL AND FINISH.
A Large Assortment of
Trunks, Valises, Carpet Bags, Blankets, Etc.,
AT EXTREMELY LOW PRICES.
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CORDAGE MANUFACTORY.
CONSTANTLY ON HAND,
A Large and Complete Assortment
—OF—
MANILA CORDAGE,
FOR MINING PURPOSES.
—ALSO—
WHALE LINE, BALE ROPE, ETC.,
Manufactured from Pure Manila Hemp.
Hoisting Ropes for Deep Shafts,
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Lines for Ferry Boats,
Manufactured to Order.
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And from Franco and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.
A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.
San Francisco, March 6, 1865. 11v10-tf

CHARLES BERNARD,
MANUFACTURER AND DEALER IN
Family Chartres Coffee,
AND SPICES OF ALL KINDS,
No. 707 Sansome street, cor. Gold, bet. Jackson & Pacific.
First Premium Awarded
BY THE MECHANICS' INSTITUTE,
FOR BEST COFFEE AND SPICES.
The proprietor having introduced steam power in his Manufactory, has now increased facilities to supply the trade and the public in general. All articles from his establishment are guaranteed to be pure and unadulterated. The public are respectfully invited to call and convince themselves. Country orders promptly attended to.
15v11-3m

OIL WELL BORING.
J. SEVENOAKS,
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For Well Boring and Erecting all kinds of Machinery connected therewith.
Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1229 San Francisco. 2v11

LEHIGH COAL.
200 Tons Large Lump Lehigh Coal
Now on Hand.
I am also in constant receipt of
LEHIGH COAL,
And will be able to supply it always
At the Lowest Market Price.
JAMES R. DOYLE,
20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

Where Fat and Flesh Come From.

They come from the earth and the atmosphere, collected by vegetation. Grass contains flesh; so grain. The animal system puts it on from these. Vegetation then is the medium through which the animal world exists; it can exist in no other way. When grass or grain is eaten, the flesh constituents are retained in the system; so also the fatty substance, that is, the starch and sugar, from which fat is made. Some grains have more flesh than others; so of the qualities that make fat. In a hundred parts of wheat, according to Piesse, are ten pounds of flesh; in a hundred parts of oatmeal, nearly double that amount. Hence oats are better for horses, on account of their flesh-forming principle, rather than fat, as muscle is what a horse wants. For fattening purposes, however, corn and other grains are better.

When flesh itself is eaten, the system but appropriates what is already formed, but would as readily take it from vegetables, from flour.

The flesh-making principle—or the flesh itself, in its constituents—goes to form cheese in the dairy; the starch, &c., butter. Hence it is that some people assert that cream has little influence in cheese, farther than to enrich it; for cheese and butter are entirely distinct. The same kind of food is equally good for the production of either. This is a point of considerable interest, and is not yet fully explained—indeed, it is yet in its infancy. And a plant in its different stages of growth has a different effect. The fat of the plant is held in reserve for the seed; nothing is wasted in leaves, wood, &c.; the precious seed must have it. Hence when this takes place, the stalk is comparatively worthless to what it is prior to the change. And the fat cannot be appropriated so well in the seed as when it is diffused through the stalk. Tender herbage, therefore, is the best; and when secured before the direction of the oil takes place, so much the better will be the hay.

CASUALTIES.—Three thousand one hundred and eighty-one persons lost their lives, and nine hundred and thirty-five other persons suffered bodily injuries, by accidents upon American railroads or steamboats, or by explosions of powder magazines, or fall of buildings, in America, during the period between the close of the war and the 31st of August—just five months. These figures, supposing the entire year to present a similar record, would give a total of 7,632 deaths, and 2,244 persons wounded, within the space of twelve months.

MINING LAWS AND FORMS.

Third Edition revised and enlarged.

Compiled by H. B. CONGDON.

THIS Edition contains all the laws of the *STATE OF CALIFORNIA* and *NEVADA TERRITORY*, relative to Mining Corporations together with the Mining Ordinances of Mexico, complete; Digest of Decisions of the Supreme Court; Forms etc. 16 mo. flexible cloth, 192 pp. $2.50.

Published by H. H. BANCROFT & CO.

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R. WEGENER,

Accountant and Mining Secretary

Has removed to

No. 415 Montgomery Street—west side,

Between Sacramento and California sts.,

6v10 SAN FRANCISCO.

Machinery.

Worth's Telegraph Reel.

MESSRS. DEWEY & CO.—Dear Sirs: I see a notice in your paper in regard to my Paper Reel, signed Henry McGann. All I have to say is, if I had invented such a Reel as his, in 1862 or 1863, and had not improved it more than he has, I would keep my name to myself, and not let the public know who I was. His notice puts me in mind of Shakspeare's play of "Much Ado About Nothing." My Reel is entirely different from his, and is considered, by operators who are judges of such things, to be the best; and as for the cord, I could rig one to my Reel that would run a week, but it is not necessary.

For the best Paper Reels, address

L. W. WORTH, Sonoma,

15v11tf Or, WM. LUNDBERG, San Francisco.

HUNTER'S PREMIUM CONCENTRATOR, AMALGAMATOR AND SEPARATOR,

Awarded a Silver Medal at the late Mechanics' Fair.

HUNTER'S CONCENTRATOR CAN BE SEEN IN OPERation daily at the Novelty Iron Works, Fremont street. Parties wishing to purchase Concentrators will find it to their advantage to examine the above machine before purchasing elsewhere, for the following reasons:

1st. It will work the sands from a 5-stamp battery, and save from 10 to 20 per cent. more sulphurets than any machine built on the Pacific coast.

2d. The Sulphurets are washed clean, containing less than ten per cent. of sand.

3d. The waste tioe gold and amalgam is amalgamated on the copper plates; no trace of ground mercury and scarcely a trace of metal passes off with the sand.

4th. Its simplicity is a sufficient recommendation for its general use as a Concentrator. The variation of speed in a Quartz Mill does not effect the working of the Machine. The same was demonstrated at the late Mechanics' Fair, when with the greatest IRREGULARITY OF SPEED the best of results were given.

5th. There is no clogging or stopping to clean out the sulphurets and sand; consequently no waste from any inattention on the part of the attendant.

6th. In exhibiting the working of the machine (it is not run empty), all classes of ores and tailings, from 50 pounds and upwards, are concentrated that parties may see fit to test the machine with.

Give it a trial, and satisfaction is guaranteed. All orders and any information required, address,

ANDREW HUNTER,

Novelty Iron Works, Fremont st., San Francisco,

15v11-3m Or to E. T. STEEN, Agent.

Hepburn & Peterson's AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for preparing simular results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th. Illustrated in the Mining and Scientific Press, April 9th.

504] HEPBURN & PETERSON.

nov8 3m*

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1861; his Crocodile Quartz Crusher; his Pulverizer; and his improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. **B. FAUCHERY,** Engineer,

24v9

BLAKE'S QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA, WASHOE, ENGLAND, FRANCE,

— AND —

THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

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4v10

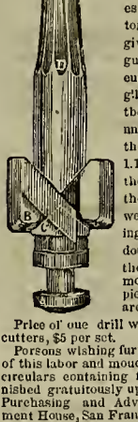
ATTENTION, MINERS!

LINSCOTT'S PATENT CHAMBER DRILL.

Great Improving in Blasting.

W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.



D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ⅛ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force alide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1⅜ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished without charge upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSITON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street above First (opposite the Oriental Hotel), San Francisco.

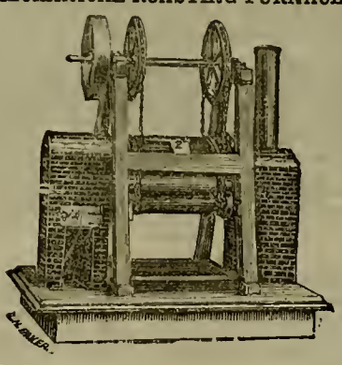
23v10

Rowe's Patent Æolian Refrigerator.

THIS NEW AND IMPORTANT INVENTION IS NOW offered to the public, with the fullest conviction that it will be found invaluable to the dairyman, and of most essential service in every household. By its use the amount of cream from milk may be increased nearly one-third in quantity, while for general refrigerating and ventilating purposes, it has no equal. Call on OSGOOD & STETSON, 219 Commercial street, San Francisco, and examine for yourselves.

14v11 **W. S. ROWE, Proprietor.**

The Mechanics' Institute AWARDED A PREMIUM SILVER MEDAL TO BRUCKNER'S MECHANICAL ROASTING FURNACE.



Parties wishing to erect such Furnaces, are requested to leave their orders with

T. KALLENBERG,

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HUNT'S IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN

HORSE POWER

For Sawing Wood.

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,

No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

HUNT'S PATENT Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,

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DENIS WHELAN, Fashionable Boot Maker

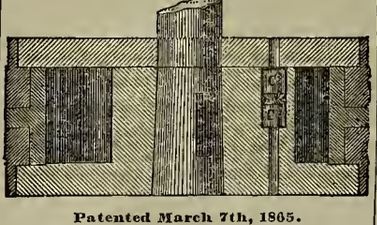
REPAIRING NEATLY DONE, AT SHORT NOTICE.

No. 17 Fourth Street,

Near Market street, San Francisco.

15v10-1m*

Stevens' Pressure Packing.



Patented March 7th, 1865.

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

STEVENS' PACKING has the advantage of being cheaper in first cost than the ordinary packing, and can be applied to old style pistons with very little alteration or detention. In place of testimonials, the Patentee requests of those who are using the old spring packing to inquire of the owners of the various engines which now have this packing in use—some of which have been running from three to twelve months without being opened, or showing any descriptive leak—and act upon their recommendation.

Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Alameda Railroad, or at the VULCAN IRON WORKS, where they can be seen, at any time, in course of construction.

10df **ANDREW STEVENS.**

McCOMB'S CUMULATIVE POWER PRESS AND ARROW TIE.

E. C McCOMB, Agent.

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STOW'S PATENT CHAMBER DRILL.

The greatest Labor-saving Machine ever invented for Quartz Mining. By using this Drill in shafts, tunnels, and all other rock blasting, three-fourths of the labor and over one-half of the powder will be saved. The Drill makes a chamber directly at the bottom of the hole, at any depth you wish, six times the area of the original hole, in all kinds of rock, in less time than a man can drill a 2½ hole two inches deep. Requiring no tamping, it will be impossible to have a premature blast.

AT THE STATE FAIR held in Sacramento, September, 1865, a Committee, after examining both the Lincoln and Stow's Chamber Drills, reported as follows:

We, the undersigned, Committee on Mining Tools, do award to Henry M. Stow, of San Francisco, the FIRST PREMIUM for the best Chamber Drill for blasting rock, for the following reasons:

1st. For simplicity of construction;
2d. For durability of drill;
3d. For strength of drill.

The above Drills will be sent to any part of the State for **$30**, with one set of Cutters or Chisels that will chamber from 75 to 150 holes. Extra Chisels furnished at $2 50 per set.

The Drill may be seen at Mr. BUFFINGTON'S Office, No. 7 Government Block, corner Sansome and Washington streets, and at No. 511 Market street.

Drills will be delivered to any part of this State free of expense to the purchaser. Any information desired, or orders for Drills, address

STOW & COLLINS,
San Francisco.

Oil Wells! Oil Wells!!

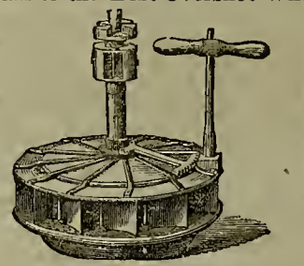
I received at the last STATE FAIR a special Premium for the best Expanding Drill for boring oil wells. The above Drill will bore the hole from ¼ inch to 2 inches larger than the inside of the pipe or tubing of the well, if desired, making the bore perfectly straight and round. The Drill can be attached to and work with any common drill at an expense of from $25 to $50. I will furnish all machinery for boring, or will take contracts for boring wells, and furnish steam engines and all tools required. Address,

HENRY M. STOW,
14v11 San Francisco.

WATER WHEELS!

Equal to the Best Overshot Wheel

POWER PLEDGED



IN EXISTENCE.

LEFFEL'S AMERICAN DOUBLE TURBINE,

Is now manufactured by the Vulcan Iron Works Company, in this city, and orders for the same can be filled immediately. We have a large supply of the different sizes, from 10 inches to 20½. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 100 to 300 pounds, will yield from 10 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to

LEFFEL & MYERS,

At Vulcan Iron Works, office 137 and 139 First street, San Francisco. 4v11tf

VARNEY'S PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setlers made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setlers for themselves, at the **PACIFIC FOUNDRY,**

1v1 San Francisco.

SALMON'S PROPELLOR AMALGAMATOR — AND — Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

9v11 **J. & W. C. SALMON.**

OIL WELL BORERS.

A CONTRACT WILL BE LET TO A RESPONSIBLE party to sink an Oil Well, as deep as may be required, on land belonging to the "Eel River Oil Company," situated in Humboldt county, Cal. For particulars, inquire at the office of the Company, No. 436 Jackson st., up stairs.

12v11-1m E. H. WILSON, Secretary.

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Old Eyes made new, without SPECTACLES, DOCTOR, or MEDICINE. Pamphlet mailed free on receipt of ten cents. Address E. B. FOOTE, M. D., No. 1130 Broadway, New York.
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C. MULLER,

OPTICIAN,

No. 3 Montgomery street, Masonic Temple, San Francisco. Old Frames reset with suitable Glasses or Brazilian Pebbles. 15v1t-2m

BAUX & GUIOD S
Separator & Amalgamator

Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jeffersonian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crail's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Hengh & Thom's Foundry, Nevada City.

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"A great many books will yet be written concerning this war, in addition to the many already in print; but not one of them will give, within a similar compass, a clearer, fuller, more readable account, entirely from personal observation, of the nature, animus, purposes, tendencies, and instrumentalities of the slaveholders' rebellion, than does the unpretending narrative of Mr. Richardson."

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From Folsom street Wharf

At 11 o'clock A. M., punctually to the hour,

For Panama.

Passengers will be conveyed from Panama to Aspinwall by the Panama Railroad Company, and from Aspinwall to New York by the Atlantic and Pacific Steamship Company

A Baggage Master will be sent through each trip.

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At the Bunker Hill Mine,

To work for wages (three dollars per day), or on contract.
16v1t-tf RICHARD POWNING, Superintendent.

1852. 1865

Thirteenth Year of Publication.

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For Non-Retention or Incontinence of Urine, Inflammation or Ulceration of the Bladder or Kidneys, Diseases of the Prostrate Gland, Gravel, Brick Dust Deposits, Dropsical Swellings, Orgauic Weakness, Debility, Female Complaints, Etc.

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—AND—

Improved Rose Wash

Will radically exterminate from the system Diseases arising from Habits of Dissipation, *at little expense, little or no change of diet, no inconvenience or exposure*; completely superseding those *unpleasant and dangerous remedies, Copaiba and Mercury*, in curing these diseases.

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In all Diseases of the Urinary Organs, whether existing in MALE OR FEMALE, *from whatever cause originating, and no matter of how long standing*. It is pleasant in its taste and odor IMMEDIATE in action, and more strengthening than any of the preparations of *Bark or Iron*.

Those suffering from *Broken Down or Delicate Constitutions, procure the Remedy at once.*

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All the above diseases require the aid of a diuretic.

Hembold's Extract Buchu

IS THE GREAT DIURETIC.

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Compound Fluid Extract Sarsaparilla,

For purifying the Blood, removing all diseases arising from excess and imprudence in life, chronic constitutional diseases arising from an impure state of the blood, and the only reliable and effectual known remedy for the cure of Scrofula, Scald Head, Salt Rheum, Palas and Swelling of the Bones, Ulcerations of the Throat and Legs, Blotches, Pimples on the Face, Tetter, Erysipelas, and all scaly eruptions of the skin, and beautifying the COMPLEXION.

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Of the worst disorders that afflict mankind arise from the corruption that accumulates in the Blood. Of all the discoveries that have been made to purge it out, none can equal in effect HELMBOLD'S CONCENTRATED EXTRACT OF SARSAPARILLA. It cleanses and renovates the Blood, instills the vigor of health into the system, and purges out the humors which make disease. It stimulates the healthy functions of the body, and expels the disorders that grow and rankle in the Blood. Such a remedy, that could be relied on, has long been sought for, and now, for the first time, the public have one on which they can depend. Our space here does not admit of certificates to show its effects, but the trial of a single bottle will show to the sick that it has virtues surpassing anything they have ever taken.

B

Two tablespoonsful of the Extract of Sarsaparilla, added to a pint of water, is equal to the Lisbon Diet Drink, and one bottle is equal to a gallon of the Syrup of Sarsaparilla, or the decoction as usually made.

The above Extracts are prepared on purely scientific principles—in *Vacuo*—and embody the full strength of the ingredients entering into their composition. A ready and conclusive test will be a comparison of their properties with those set forth in the U. S. Dispensatory.

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In Diseases of the Blood, Humors on the Face, or any and every part of the body, use Extract of Sarsaparilla, applying to Pimples and all external Humors or Eruptions the Improved Rose Wash.

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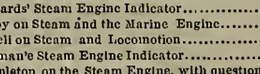

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EARTHQUAKE PHENOMENA.

NUMBER II.

A distinguished writer has very beautifully as well as forcibly remarked, that "in order to bind together facts, *theory* is requisite as well as *observation*—the *cord* as well as the *fagots*." A very small portion of what is now received as exact science, has been brought to its present degree of perfection without the preliminary aid of theory. The attainment of definite conclusions is almost always greatly aided by the previous adoption of some plausible theory, as a "guiding hypothesis" or basis for observation. Hence, in the examination of earthquake phenomena, various theories have been adopted, which must stand or fall as facts are gradually brought to light, by careful and patient observation. It was only after the idea of the wave impulse was clearly grasped, that observations of these phenomena began to assume a practical and philosophical character; and as there are possibly many of our readers who do not even yet fully comprehend the fundamental conditions of the propagation of this motion, we will endeavor, at the expense, perhaps, of being thought tedious by some, to give a clearer idea of the same. Having no illustrations at hand, the reader who may be desirous of following us closely is requested to prepare himself with paper and pencil.

First draw a horizontal line, say three inches in length, which we will mark and call *a b*; now draw a perpendicular line of the same length, crossing *a b* at its center, so that one inch of this second line shall be above *a b* and two inches below; we will call this line *c d*; at a point on *c d*, say half an inch below *a b*, make a dot, which we will call *e*; now draw a series of circles around this dot, until your outermost circle shall touch the point where *c d* crosses *a b*. This point we will call *f*. Now draw another circle, which must, of course, pass through *a b* at two points near *f*. That done, proceed to draw four or five segments of circles below *a b*, and outside of the circles already drawn, with the ends of the segments resting upon the line *a b*.

The diagram being completed, let it represent a vertical section of a portion of the earth, and let *a b* represent a section of the earth's surface, and *e* the point of origin of the earthquake wave, which we desire to describe. In order to obtain a more accurate idea, the spaces between the circles should be so graduated that they should appear of less and less width, until the outermost one is reached—like the gradually decreasing size of the concentric waves produced by dropping a pebble into a smooth body of water.

Now, if we assume that the earth's mass is of a uniform density, the wave, starting from the point of origin, *e*, will travel outwards, in all directions, in concentric shells instead of circles, of course, with diminishing volume and force, until they become quite imperceptible. The shock reaches the surface first at *f*, directly over the origin, where, of course, it is vertical; in every direction diverging from that point, it reaches the surface at an angle more or less inclined, or approaching to parallelism with the earth's surface; thus giving a motion on the surface apparently like a sea wave, while, in reality, it is the arrival of the original impulse, or *wave of force*, upon the surface at successive intervals, and at successive points, divergent in every direction from the first *f*, and in direct lines from the center of disturbance.

If the reader comprehends the idea correctly, he will perceive that it is not a surface wave at all, but a mere succession of impulses reaching the surface at angles constantly diminishing, until the distance which it is necessary it should pass through is so great that the impulse is lost to the senses.

In order to explain this point more fully, let the reader refer again to his diagram, and from the point *e* draw a line reaching *a b*, a quarter of an inch to the right of *f*; now draw another line from the same point *e*, reaching *a b* half an inch from *f*. Draw a series of these lines touching *a b* at intervals, until the last one reaches it at the extremity or point *b*. Now, instead of a single wave impulse started at *f*, and projected along the surface of the earth like a sea wave, until it reaches *b*, suppose an indefinite number of impulses all started at the same instant from the innermost circle, around *e* and reaching the surface, as they would do, each one along its own line, at an indefinite number of points along the line *f b*, and you will be able to form an approximately correct idea of the character of an earthquake wave.

When the motion is vertical, the earth is suddenly raised and dropped again. As any given locality is removed more or less from a position directly vertical to the origin of impulse, the earth is pushed up and at the same time carried forward; a displacement and replacement of the integrant molecules of a given volume of matter taking place in a direction more or less vertical, according to the distance of the locality from a position vertical to the origin.

The size of such a wave—that is the volume of matter displaced, or of particles in motion at once, depends upon the elasticity of the substance operated upon, and the amount of the originating impulse. The movement is sometimes so very small as to impart nothing more than the slightest tremulous motion to the earth; at others the undulation of the ground is so great as to be perceptible to the eye, and the forward and backward throws may be approximately measured by its disturbing effects upon bodies resting upon the surface—as for instance a tub or box of water resting firmly upon the ground, from which the water is thrown, precisely as it is when such a vessel, so filled, is suddenly pushed forward by hand and as suddenly brought back to its original position—the water will be thrown out upon both sides, in a line conformable to the direction of the motion, if that motion be great enough. Again, the tops of trees are made to thrash backward and forward, by their roots being suddenly carried forward and as suddenly brought back by the wave of impulse. A remarkable instance of the effect of an earthquake passing a city in a direction diagonal to that of its streets is recorded, where an observer, standing at the end of a street had his eye, at the moment, upon the face of a long row of very high brick buildings. As the impulse struck the farther end of the street, a distinct and continuous wave of the entire front was noticed, running rapidly along its length, as though a huge hanging blanket had been suddenly shaken at one end, with sufficient force to transmit a wave of the fabric to its opposite extremity. The backward and forward motion may be supposed to be greatest at a point perhaps not far from half way from the point vertical and that where the motion ceases to be plainly perceptible; while the elevation and depression is greatest at the point directly vertical to the original impulse.

The velocity of the translation of the earth-wave depends, to some extent, upon the character of the formation through which it passes. If the mass is firm and homogeneous it moves rapidly; if broken into thin strata it is greatly retarded. From thirty to fifty miles per minute has been observed, under favorable circumstances, as the rate of motion. Perhaps the best opportunity to observe its altitude is upon the sea. When the earth-wave moves under the sea, it lifts the water up and carries it along, as it were, upon its back; for the rate of transit is so great that the elongated, wave-like heap of water lifted up does not have time to subside laterally. The elevation of this wave will be much less than that of the land beneath; but the opportunities for observation will be much more favorable. When the wave approaches the sea-shore from inland, it carries the water away from the beach, producing an outward wave—this will be especially noticeable along a shallow shore; on the contrary when it comes from seaward, the water is carried forward and over the beach. Of course a wave coming from the sea must not be confounded with the reflux of one passing outward from the land. These waves are the cause of the slight disturbance which is always noticed at the margin of a still sea or bay, at the instant of an earthquake.

In the earthquake of the 8th instant, the waters of Mission Bay, in this city, which are very shoal, and which were quite calm at the time, were very much agitated, and covered with bubbles. These bubbles were caused by the disengagement of gases from the mud, as the same was disturbed by the passage of the earth-wave, and the agitation by the lifting of the water into a wave, as already described. The shocks so frequently noticed as being received by vessels at sea, during an earthquake, are conveyed to the vessel's bottom precisely as the percussion spoken of in our first article, is caused to pass through the tube of water there described, and made to act with percussive force at the opposite end.

The most severe earthquake shocks of which we have any account, have had their origin under the sea, throwing land-ward large waves, which at times have overflowed wide tracts of land, carrying off and destroying thousands of human beings. In 1693, a wave of this description flowed in, to the hight of twenty feet or more, upon the coast of western Europe, from Sweden to the Gulf of Gibralter, and thence down the coast of Africa to an unknown distance. This wave destroyed many thousands of lives. A similar wave, and causing equal destruction, occurred over the same territory, in 1755. During the latter, the return wave, at Lisbon, is reported to have been sixty feet high, and as it swept in upon the city destroyed 60,000 people! It should be borne in mind that the hight of these waves is often very much affected by the character of the coast. In deep ocean water, the wave may be scarcely perceptible in hight, yet of immense volume—being very broad—so that when it approaches a shallow shore, with the velocity it attains, its volume increases its altitude, until the depth of water becoming less than the altitude of the wave, it topples over and comes ashore as a huge breaker, the formidable and destructive nature of which is well known. The velocity of such waves being much greater than that of ordinary sea waves, it breaks with much greater force, and a proportionally increased capacity for destruction.

We have heard it stated, that at the time of the earthquake on the 8th instant, a wave of this description was noticed at Oakland, two feet in hight; but as that locality is extremely unfavorable for the development of such a wave, we are inclined to question the accuracy of the report; although if such an observation had been made at any favorable point for such a development, we should suppose such a result to have been highly probable.

We had intended, in this number, to have explained the philosophy of the apparent twisting motion sometimes imparted by earthquakes to bodies resting upon the earth, or other less substantial bases; but the space already occupied precludes further discussion of this matter at this time.

NOTE.—In our remarks under this head, last week, several important typographical errors escaped our notice in the proof. Near the bottom of the first column, for "if that water be heated to something more than the boiling point," read "if that water be heated to something near the boiling point." Again: Near the top of the last column on the page, for "earthquakes producing gas explosions," read "earthquake-producing gas explosions."

RETURN OF SECRETARY MCCORMICK.—Hon. R. C. McCormick, Secretary of Arizona, returned by the Colorado, from New York, bringing with him a bride. He left *en route* for Arizona, on the Senator, which sailed on Thursday. In addition to the new and happy social relation in which he again comes among us, he has the gratification of returning with the high satisfaction of having had his accounts all promptly adjusted, and his conduct of the territorial finances highly commended by the Treasury Department at Washington. The friends of the honorable Secretary gave him a sumptuous entertainment at the Astor House, just prior to his leaving New York. The affair was graced by the presence of many distinguished men, and was eminently successful in every respect.

A "GUN-COTTON ENGINE," invented by M. Jules Groe, is favorably reported upon by *Les Mondes*.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

The Problem of Gold and Silver Extraction—A General Review—No. XVI.

BY PROF. L. LANSZWEERT.

In continuing my remarks upon silver processes, the last of which appeared in your issue of July 29th, I would say that in the Freiburg process, it is of the utmost importance that no free proto-chloride of copper should be present in the reduction of silver ores, as by giving up to the mercury one-half of its chlorine a considerable loss of that metal is produced by chemical reaction. When this does occur, lime is added for the purpose of decomposing the excess of chloride of copper, and its prejudicial action on the mercury is arrested.

USE OF DICHLORIDE OF COPPER IN THE PAN PROCESS.

To avoid this loss, which at the end of the year forms a considerable item in the expenses of a mill, and to facilitate a more direct and easy decomposition of the sulphurets of silver in the Washoe ores (admitting the *rationale* of the theory of the patio process as explained in my last number), I availed myself during my stay in Washoe, of the opportunity to try the direct use of dichloride of copper (cu^2cl.) on the different ores there presented. The success realized quite surpassed my expectations. The results were obtained by comparative experiments made on a large scale, by reducing from five to five hundred tons of the various Washoe ores, such as Gould & Curry, No. 2, Chollar, Potosi, Olney, Rogers, Gold Hill, etc.; and were attested by certificates from Guido Kustel, Col. Brevoort, Mr. Lambert, J. Corey, Joseph Trench and others, as the experiments were conducted at their several mills. They averaged, according to the nature of the ores, from within five to twenty per cent of the assay value of the ores.

The quantity of dichloride of copper used was based on the analysis of the ores, and the percentage of the sulphide of silver they contained. Taking, for example, an ore assaying $100 per ton, we would have, according to analysis, sixty-two ounces of sulphide of silver, equal to fifty-four ounces of metalic silver, at $1.29 per ounce which is worth $70, and free silver at $30 = $100.

The patio process requires for the reduction of the above amount of sulphide of silver 125 ounces of sulphate of copper, 590 ounces of salt and 100 ounces of mercury; the mercury being lost by decomposition as a chloride of mercury—the calomel of the apothecary.

Now, if we use, instead of the above, the *dichloride* of copper, 47 ounces (the quantity required for the reduction for the amount of sulphide of silver present), + 400 ounces of salt, and 100 ounces of mercury, there will be no loss of the mercury.

In nearly all enterprises of this kind a great many obstacles are thrown in the way of success, by reason of the stubbornness, incapacity or avidity of those having charge of the different works. So in this case; notwithstanding the proof was abundant of more favorable results than were being obtained by the old processes, still such was the systematic opposition presented by superintendents, amalgamators and others interested in retaining present positions or in continuing the use of other processes, the writer found it impossible to introduce his process into permanent use in any of the numerous mills in Washoe. Time and circumstances will eventually accomplish for the mining interest of that locality, what the stubbornness or incapacity of the early operators there refused to allow; although thousands of dollars might thereby have been saved to individual companies alone.

Although the preparation of dichloride of copper is very easy and simple, still a great many attempts to prepare it have failed; the operators preparing, instead, a mixture containing a large percentage of proto-chloride and very little dichloride of copper: and being in consequence disappointed in the results from the use of this preparation, they have condemned a process which my own careful experiments on a working scale have proven to be the best yet adopted for the reduction without roasting, of a certain class of Washoe ores.

BENEFICIO DE LA PELLA DE PLATA—EXTRACTION BY SILVER AMALGAM.

This process was introduced in 1676 by Juan de Carrosegarra. In its use amalgam of silver was added to the mercury, aiding the action of the same in the extraction of the silver from its ores, by which the loss of mercury was considered less, as the amalgam disseminates with more facility through the mass, than the pure quicksilver. Every miner is aware of the fact that pure quicksilver will never amalgamate so readily in its first use for amalgamating purposes, as in its subsequent employment—it must first become "charged."

BENEFICIO DE LA COLPA

was first employed by Don Lorenzo de la Torre, and used in place of an artificial *magistral*, which contains more sulphate of copper than sulphate of iron. A natural mixture, called *colpa*, consisting of an acid sulphate of iron and peroxide of iron was added to the *torta*. This process offers the same advantages as the *beneficio de hierro*.

BENEFICIO DE CASO Y COCIMIENTO—AMALGAMATION BY BOILING IN COPPER VESSELS.

This process was introduced in 1590, by the presbyter, Alonso Barba, who was then living in the royal city of Potosi. Second in all the metallurgic lore of his time, and gifted with an acumen which few of his slothful successors have inherited, he bequeathed to the world a system of metallurgy (the second ever written), and edited by Molinos, at Madrid, in 1728, which, divested of its obsolete nomenclature and the erroneous views of the chemical constitution of bodies prevalent at that early period, is still a text-book for writers on the science. In this work he has shadowed forth the first crude idea of the doctrine whose adoption by its professors has revolutionized modern chemistry. "His views of the rationale of the different processes," says Sonnenschmidt (no mean authority,) "are so clear and practical, his ideas so far in advance of the age, his suggestions so judicious and so modestly enforced, his improvements so many and so important, as to leave little doubt that, working by the light of modern sciences, he would have left us the process of *patio* amalgamation absolutely perfected and have left nothing to the ingenuity of subsequent inventors."

If the owner of one of a lately most boasted process (boiling in copper pans.) had consulted scientific works, he would have learned the reasons why it was never generally adopted and for which very soon be also will abandon it too. This same process was revived in 1786 by M. DeBorn, and lately Juan de Ordonez recommended amalgamation in kettles heated by stoves, to which idea Washoe is indebted for its first "Stove or Iron Pan" out of which the whole family of iron amalgamating pans has grown. Verily, "there is nothing new under the sun."

[Written for the Mining and Scientific Press.]

The Mines of Nevada County.

Messrs. Editors:—To acquire a thorough knowledge of the mineral resources of Nevada county, renders necessary something besides simply a residence here, or a "flying tour of observation." A county containing more square miles than some of the Eastern States of the Union, which can boast of as rugged mountains, deep cañons, and as sublime natural scenery as far-famed Switzerland, cannot be traveled over and mapped out by the eye or the imagination in a day. The unseen wealth of her hills (I follow custom in regard to gender) can only be estimated by the fancy of the individual beholder, whose data or basis of calculation is as misty and uncertain as the fogs of Egypt. But in this fast, and comparatively early age of mining in this country, we must be content to examine only the outer rim of the earth's surface for mineral wealth, and leave to coming generations the herculean task of penetrating to those Plutonian depths, where natural heat, does the smelting, amalgamating, and retorting on a scale of magnitude that would cause the most "improved pans" or "revolving stamps" to subside into insignificance. The most deeply learned geologist or mineralogist may visit our hills, spend weeks in examining different mines that have been partially developed, note the stratas and formations of rock—the innumerable surface-indications that Nature has scattered about so lavishly—and yet he can tell us no more about the prospective mineral wealth locked up here, betwixt slate and granite walls, than we already know.

Every observing, intelligent man here is aware that this county is rich in metallic wealth—rich enough for the general welfare of all who are here now, and all who may come in the future. There is a more healthy and established feeling of confidence among miners and moneyed men at this time concerning the wealth and inexhaustibility of our quartz mines than has ever been known before. Croakers, who would have had the mines "played out" long ago, have either left the country for the "country's good," or gone to work, disgusted or ashamed with the falsity of their prophecies. Capital is greatly needed for the further development of old, and the opening of new, mines in the immediate vicinity of this city; but if capitalists, outside of our immediate vicinity, are not disposed to invest in our mines, it will not stop entirely the wheels of progress. Local energy and capital, within the past few months, have produced results far better than was expected.

The Star Spangled Banner ledge, owned by Messrs. Kidd and Tisdale, located on Little Deer Creek, two miles from this city, is yielding steadily about 450 tons of rock per month, which averages $40 per ton, and the cost of mining and hauling the same is less than $10 per ton, leaving a net profit to the owners of over $30 per ton. These same gentlemen are also raising 200 tons of rock per month from the Mohawk ledge, on Gold Flat, which yields $50 per ton. The net profit on this rock cannot fall short of $35 per ton. The owners of the Willow Valley ledge are running a tunnel which, when completed, will strike the ledge at a depth of 70 feet. This claim was discovered last spring, and an incline sunk on it some 50 feet, when the water prevented further progress. From this incline 100 tons of rock was taken, yielding $33 per ton. As soon as the water in the incline is drained by the tunnel, the owners will be able to take out a large amount of rock, as the ledge is from two to four feet in width. Messrs. Dowd & Carr have recently discovered a ledge but a short distance from the Willow Valley location, which yields about $20 per ton. The Nevada Quartz Mining company, two miles below the city, on Deer Creek, have been taking out a large amount of rock lately, and their 12-stamp mill is kept busy at work. The Providence company, on the same ledge, on the opposite side of the creek, under the superintendence of Mr. Dingley, are extending their upper tunnel into the hill. They have a ledge in the further end of this tunnel over 12 feet wide. The character of the rock, however, is not good; yet, if the company will but persevere, there is scarcely a doubt but that they will soon find a better class of ore that will amply repay them for all their previous mishaps and discouragements. I make this remark, because the owners on the same vein, across the creek, ran their tunnel on the ledge for a distance of 300 feet before they found good pay rock. This shows the benefit of perseverance, and if the stockholders in the Providence company will but imitate the example of their neighbor on the same ledge, the chances are that they will meet with as good if not better success. Mr. Diogley is driving the tunnel ahead with energy, and I trust will soon meet with a better quality of rock. In running in a cross-cut from the main ledge, a vein of good pay rock has just been found.

The Star Quartz Mining company, in Eureka township, above Cañon Creek, have recently struck, in their tunnel, a splendid ledge, some five feet in width, containing fine gold, and sulphurets of iron in abundance. Their mill is now in good running order, and they expect to commence crushing in about ten days.

At Bowman's ranch, on the Henness Pass road, several ledges have recently been located that have the appearance of being very rich in gold. Rock from the Galena, one of these locations, yields as high as five dollars per pound. The ledge varies from six to eighteen inches in width, and contains a large amount of galena. A ledge known as the "American," near the Galena, promises to be of great value, but its owners, for lack of means to develop it, are obliged to let it remain for the present unprospected. The Jefferson company recently had a crushing of ten tons of their rock at their mill, which gave a return of $30 per ton. They have out some 300 tons of rock equally as good as that already crushed, but the mill is now idle for want of water. On account of the cold and deep snows that fall at Bowman's, it is doubtful if the mill will be able to resume operations before next May.

From the Excelsior district we have but little that is new or interesting. The near approach of cold weather at that high altitude, and the prospect of eight or ten feet of snow, has admonished many to leave that region, and wait until the return of spring. Two mills, I am informed, will be in running order this fall, but I doubt if they will be able to keep them in operation this winter, on account of the severity of the climate. Parties from this district, with whom I have conversed, all speak favorably of the mines. The ledges are numerous and generally large. Some of them contain no mineral indications whatever, and others are represented as being very rich in gold, with a small percentage of silver. Those having located claims there seem to have no fear of their being "jumped" before late next spring—ten to fifteen feet of snow being considered an ample protection while it lasts. At Summit City six hotels have been erected, several of which are of good size and substantially built. Nine-tenths of all those owning claims in the district are represented as men without capital, who are unable to develop their ledge, but, Micawber-like, are "waiting for something to turn up." Next spring, the rush to Excelsior district bids fair to equal the Reese River excitement of two years ago.

At Washington two mills for crushing cement are now in operation. In Little York township the cement diggings are very extensive, and a large amount of capital has been expended there in the erection of mills and machinery. Eight mills, running on an average eight stamps each, are in operation, and five more are to be built this fall and winter. All this property, remember, is being brought about by *local* capital and enterprise, which shows that, as a county or people, we are not wholly at the mercy of Eastern nabobs, or San Francisco Shylocks.

There is some prospect of a railroad being built to this city from Colfax within the next two years. The subject is being extensively agitated here, and funds to make the necessary surveys and estimates have been subscribed. An effort will be made this winter to obtain a charter, and to have an act passed authorizing the county, if the voters so determine, to issue a certain amount of bonds in aid of the contemplated road.

Nevada.

[Written for the Mining and Scientific Press.]

Austin Going Ahead.

On my return to this place, I find much increased activity in every thing appertaining to the development of the mines, the perfecting of reduction works, and the introduction and distribution of capital. Many of the mills commenced when I left are now on the eve of completion; and many others at that time on their way from New York and San Francisco are now taking their respective positions in the several districts for which they were destined. Another very interesting feature in the progress of the enterprise peculiar to this place, is the rapidity with which valuable mines change ownership; for no sooner is a good ledge located, and so far developed as to give positive evidence of its worth, than it is sure to be purchased in the interest of Eastern capitalists, whose agents are here for the ostensible purpose of investing in all such property.

MONEY ABUNDANT.

The nearest approach to the lavish liberality of the early days of California mining that I have yet seen, is to be found here at the present time. The old pioneers and prospectors are now reaping their just and well-earned reward. This class of men are certainly the founders of this country's greatness; for to their energy and almost reckless daring must be attributed the fact of the vast discoveries daily being made, which are bringing it before the world as the first in mineral wealth of any yet discovered, and thereby attracting capital to an almost unlimited extent. Besides the vast increase in the circulation of money occasioned by the heavy purchases of mines, which, by the way, is mainly paid in currency, Uncle Sam's indorsement being considered A 1 in this section of country, increased accommodation and facility is being afforded for obtaining the use of money by the establishment of a Bank.

"FIRST NATIONAL BANK OF NEVADA,"

Is the title of this institution. J. W. Harker President; N. C. Fassett, Cashier. Capital, $200,000; chiefly owned by Eastern men. This bank proposes to loan money at a very moderate and a uniform rate of interest, which will be alike to all offering acceptable security and far below ruinous rates heretofore exacted in this place. The bank will purchase bullion,

and having a refinery and assay office attached, will stamp their own bullion and guarantee its correctness.

Mr. Harker has purchased the best building in the place for the bank office, which is situated in the most central portion of the town. The office fixtures and bank-vault are now being placed in position, and their assay office just finished, and ere this comes before your readers the institution will be fully under way. The outlay for bank office, building vaults, safe, etc., is $20,000.

The eastern owners of the bank capital have also invested largely in the mines of this district. They are represented here by Major C. B. Raymond, a gentleman of much experience in mines and mining operations generally, besides being a most thorough business man, these qualifications amply fitting him for the very onerous duties which will devolve upon him. This mining corporation is known by the name of the "United Reese River Mining Company" of Boston. The company own in some twenty-four different ledges, in many of which they hold controlling interests, while others they own altogether. Among their numerous mines are those of the Whitlatch Union, Camargo, Diana, Buel North Star, Black Ledge, Honest Miner, Nevada, Yankee Blade, and others too numerous to mention here. Since commencing operations on the Whitlatch Union, rich pay ore has been struck, and the true vein discovered, which for some time back had been at fault. Good pay ore is also being taken out from the Honest Miner, and the Diana is yielding a splendid supply of very superior ore, which the company are now working in the Eureka mill, at Big Creek, they having leased that mill from D. A. Buel. They intend to prospect all their claims by this mill, when, if results obtained justify, they will build a more extensive one. This I consider a very wise and judicious course, and shows at once the caution, sagacity, and prudence of Major Raymond, in first properly developing his mines and proving their merits before erecting reduction works at immense expense, which afterwards may be found uncalled for. This mistake, I fear, is being made here by a few, who are investing most liberally in mill buildings, without spending a cent so far towards the development of their mines.

The U. R. R. Mining company was organized in Boston at the instance of Mr. J. W. Harker, who having gone East with the mining property already mentioned, soon found capitalists to invest as well in the mines as to open a bank of accommodation, as already described. To Mr. Harker is certainly due the credit of having the attention of men of means drawn to the due development of these valuable mines, as also of having banking accommodations on liberal terms established in this place.

OUTSIDE DISTRICTS.

Several outside districts are attracting considerable attention here at the present time. Foremost amongst them are those of Twin River, Silver Peak, Volcano, and San Antoine. The Twin River district is distant from Austin 55 miles, in Nye county, where is situated the far-famed "Murphy" ledge. This ledge is considered one of the richest in the State, being at different points at a varying thickness of from 25 to 30 feet, and 1,000 feet in location. The ore from different depths assay from average samples from $250 to $730 per ton—the first working by mill process yielding $480 per ton. A lot of 70 tons, worked at the Butte mill, near Austin, returned $184 per ton. This mine was located by Mr. G. H. Willard, in July, 1863, when he associated with himself four others. The company not having sufficient ready cash to put up reduction works, sold four-fifths of their interest for the sum of $50,000, gold coin, retaining one-fifth of the entire capital stock of the company unassessable, and binding the purchasers to set aside $300,000 of a paid-up working capital, to erect hoisting, pumping, and milling machinery, build roads, etc., etc. The purchaser of the mine is Mr. R. B. Canfield, who bought in the interest of his father, A. W. Canfield, of New York.

This company have excellent privileges of wood and water, and any amount of salt in their immediate vicinity. Their mill site is so situated that their ore cars can be run from their mine into the mill. They are engaged in building a road from the mine to connect with the "Smoky Valley" road to Austin. Mr. R. B. Canfield is now in San Francisco, forwarding mine and mill machinery to their mine. The mill is to have 20 stamps of 900 pounds each. It is computed that with a mill of such capacity they can reduce 15 tons per day, setting the ore at $163 per ton, and allowing $33 per ton to cover all costs, leaving a net profit to the company of nearly $2,000 per day. The mining superintendent of the company is Capt. G. W. Shears, an old "Lake Superior" copper miner, and a man of very fine general knowledge of under-ground mining.

Another of the noted ledges of this district is the "McDonald," owned by S. H. Willard (of the Murphy mine), L. H. Newton, and Harry Mills, this being the first extension south of the "Murphy." This company are going down on their ledge by a shaft distant from the incline of the "Murphy" only 40 feet, and showing equally as fine ore. The mine is under the superintendence of Mr. G. H. Willard, the fortunate and enterprising discoverer of the Murphy ledge, and by whom the Twin River district was formed. This gentleman is one of those worthy and energetic pioneers, who is now reaping a rich reward for the years of arduous toil spent in hope and expectancy, while patiently but persevering searching for nature's hidden treasure.

There are several other very fine ledges in the Twin River district, such as the Central American, Savage, Golconda, Arizona, Great Eastern, Mozart, Chamblin, and Harmon, all of which are being thoroughly developed.

THE SILVER LAKE DISTRICT

Is now foremost amongst the mines of attraction of this State. And as my notes of this important mining district are too lengthy for my present article, I will defer a notice of it to your next issue of the PRESS. Some very heavy sales of mining property having taken place, and others to my certain knowledge now being negotiated, I deem it of sufficient importance to devote my next communication entirely to that district.

VOLCANO DISTRICT

Is now notorious from the fact of some mines of cinnibar being discovered there. The first notice, or rather discovery of this mineral, was made by a man named M. Ensign, and was at the time thought but little of; but subsequently Mr. Ensign and Mr. John Frost, of the Oregon company, at Austin, having paid some attention to having it more thoroughly tested, and having proved it to be valuable, had the mine properly located, a district formed, and secured to themselves and a few friends what certainly must be, in such a country as this, a mint of wealth to the fortunate discoverers. Mr. Ensign, with a force of men, has been sinking a shaft upon the mine. He arrived here, a few days since, with a sack of the ore from a depth of 120 feet, which he left with the writer for assay. Several tests have been made, every one of which has shown quicksilver. He has now returned to the mine to attend to its further development. Your readers may expect to hear more of this valuable discovery as soon as its value per ton and its extent and character is fully ascertained.

J. R. M.

Electrical Queries.

MESSRS. EDITORS:—I always read the MINING AND SCIENTIFIC PRESS when it comes within my reach, and last evening I perused an article on "The Relation of Electricity to Matter," and through you, and with your permission, I would ask your correspondent a question for information.

In the first place I understood him to say that electricity is not an entity, but a condition. If that is the case, how is it that it passes so readily through what we call a vacuum? In the second place, I understand him to mean that the capacity of a body for electricity is, like heat, in proportion to its intensity. I once read in a scientific work that water probably excelled every other known body in its capacity for heat, and yet it is not the densest known body. Have I misunderstood either or both?

My head was never very clear about ocean telegraphy; but the idea of a current losing, or being lost, on its way back, upsets my whole train of thinking. I once read a description of an experiment that went a great way, in my estimation, to show that a current was longest in reaching the middle of a conducting wire, and that at two points, equidistant from each pole of a battery, the current was simultaneous. Said experiment, and several other matters, induce me, when I say current, to mean the coercion of the electricity in the circuit to a polar condition. This being my idea of a current, I would feel obliged if your correspondent would show me where I was wrong, or explain the seeming discord.

I would also ask upon what train of reasoning he infers that the inductive effects of terrestrial currents would be less on an insulated wire than they would be on the whole world as a conductor.

ARTHUR COOPER.

Grass Valley, Oct. 18, 1865.

GOLD IN THE COLUMBIA RIVER.—It is said that several very fine gold prospects have been found on some of the bars in the Columbia river. One man is reported to have recently taken out $500 in a short time from a bar on that river.

Useful Information.

THE COLOSSUS OF RHODES.—Next to the Egyptian Pyramids, the Colossus of Rhodes has been considered the chief among the seven ancient wonders of the world. It is reported to have stood astride of the narrow entrance to the harbor of the city of Rhodes; its hight being 105 feet, so that any vessel of those days could pass between its great legs. It was the workmanship of Chares, who was employed twenty-one years in its construction. History tells us it was thrown down fifty years after it was finished, by a terrible earthquake—which occurred B. C. 300. Of late years many learned men have come to the conclusion that very crude ideas, and much fabulous exaggeration has existed with regard to it. Dr. C. F. Luders, Professor at the Johanneum at Hamburg, has just published a critical historical treatise on this structure. According to his researches it is reduced to nothing more than a colossal statue, standing on *terra firma* like the Bavaria at Munich, but near the harbor, and not across its mouth. He insists upon it that its standing open legged across the mouth of the harbor, and being used as a lighthouse, is a pure invention, and an emanation of fancy from later writers.

PIT HOLE.—This now famous oil locality at the East, derives its name from an immense pit or crater on the top of a mountain near by the base of which the wells have been sunk, which have recently produced such extraordinary returns. This pit has the reputation of being of great depth, but has never been explored, owing to the noxious vapor and gases constantly arising from it. It is about twenty feet diameter at the mouth, and a fowl suspended in it will not live a minute, and in fifteen minutes will become putrid. The first well sunk in this neighborhood is a short distance from the base of the hill, and was bored to the depth of 700 feet.

ERADICATION OF STUMPS.—Where it is necessary to remove large stumps under circumstances which render it impracticable to avoid one's self of the assistance of a "stump machine," the work may be successfully accomplished by burning. This is done by digging under them, filling the cavity with combustible materials, and covering the stump, after firing the materials, with turf, in the same manner that coal-kilns are covered. The fire will in a short time effect the entire destruction of the stumps—even the long lateral roots, unless the soil is very humid, in which case the burning should be undertaken during the dry weather of summer. If the dirt is excavated a few weeks before the burning is undertaken the operation will be more speedily effected. The ashes produced by the combustion will afford an excellent stimulus for the soil, and should be carefully supplied as soon as the operation is completed. But in all cases where eradication by pulling is practicable, the stump machine should be used.—*Germantown Telegraph.*

BALING GREEN HAY.—Experiments have been made in packing green hay with entire success. The dew or rain is dried off, leaving the stalk still green, but wilted. The hay is then pressed in bales and stored away. It will come out in winter almost as fresh as it went in, losing comparatively but little in weight. Of course, this is an improvement upon the old method, as the juices of the grass are retained.

We give the above on the authority of the Massachusetts *Ploughman*, pretty good authority generally; but it strikes us, in this instance, as a little doubtful.

A FRENCH photographer has made arrangements for descending to the bed of the ocean in a submarine vessel, provided with electric light, and making submarine photographs.

"MOON ON THE LAKE," is the curious name given to the latest favorite color for ladies' dresses at the East. A new style of veil is also coming into use in New York. It is long and narrow, drawn and fastened to one side of the bonnet, the side of the veil being thrown gracefully over the front; it has a very fine effect.

GEN. GRANT, it is reported, will soon visit Europe, where he will remain. Gen. McClellan, at last accounts, was expected to arrive at New York, soon from his European tour.

Tubing Oil Wells.

Many oil wells, both in the Atlantic States and in California, are injured if not ruined by bad management in tubing. The tubing is sometimes made of too thin iron, in consequence of which a very slight inequality or roughness of the walls of the well break and render it useless. At the East it appears that one of the most fatal errors consists in placing the seed bag too low, with the view of cutting off and excluding the surface water. We are not aware that the seed bag has yet been employed in this State, for the reason that our well borers are not seriously troubled with water; still it may be well to keep constantly before us the experience of oil men on the other side of the continent, that we may profit thereby. With this view we clip the following from the Oil City *Register:*

When the process of pumping a well, thus tubed with the seed bag placed too low, commences, the water is soon exhausted; then comes a rush of oil to the bottom of the working barrel. This creates an unusual quantity of gas, which has a tendency to hold up the valves, increases the speed of the engine, wears out the pump, and endangers the sucker rods. It is our impression that this would be avoided by placing the seed bag at from 100 to 130 feet from the surface of the well; if placed in such a manner, it would exclude a great majority of the fresh water, leaving some small veins to mix with the oil, which would constantly feed the pumps, and have a tendency to create a constant flow of oil and water. In such a case the engines would work more steadily, and with far greater ease, and there would be far less strain on the walking beam and sucker rods.

The length of tubing in a well should be governed by the locality of the largest oil veins, for it is necessary to form the greatest strength of vacuum at such a point in a well, so as to suck the oil and paraffine out of the seams or crevices in the sand rock.

It is, undoubtedly, a common error of tubing too low, where there is a poor engine and a small power. These hints are thrown out as the result of practical experience and facts, in the hope that some one may be benefited by them.

AUSTRALIAN GEMS.—An exhibition of colonial gems recently came off in Melbourne, Australia, consisting of diamonds from the Owens River, near Beechworth, rubies, opals, garnets, saphires, amethysts, &c., cut and in the rough, from various parts of the colony, were on view, and excited much interest among miners and others. It is thought by the colonial papers that many thousands of precious stones have been thrown away among the "tailings" of wash-dirt and crushed stuff by reason of mining eyes not yet having become habituated to recognizing one stone from another in its natural state.

TULARE VALLEY is rapidly filling up with settlers. The discovery and development of the rich mines in the eastern portion of the county, and a knowledge of the fact that the oil regions of the western portion must soon begin to attract capitalists thither also, is giving a prospective value to the rich farming lands in the interior, which settlers are beginning to avail themselves of to a large extent. It is said that *thirty* families settled in the valley during the month of September.

A MONSTER LEMON.—It is thought that California, true to her invariable principle of being ahead in everything, has now produced what is probable the largest lemon ever grown. The last steamer brought up from Los Angeles a lemon which measures 18½ inches in circumference one way, and 13 inches the other, and is sound and perfect. California still against the world!

MORE HOT WATER.—The Virginia *Enterprise* says that a stream of hot water was struck a few days since in the new Chollar Potosi shaft, at the depth of about 400 feet. The stream was about the size of a man's finger, and was almost scalding hot. After running some five hours it ceased to flow, and has been dried up ever since. It is supposed that the water came from some pocket or crevice in the rock which was lined with iron pyrites in a state of decomposition.

SALES OF THE WEEK
BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, October 21.

120 shs Chollar at 410@430 per foot.
52 shs Chollar at 415@430 per foot, s 3.
12 shs Potosi at 405 per foot, b 15.
8 shs Potosi at 405@400 per foot.
36 shs Potosi at 400 per foot, s 3.
10 shs Potosi at 410 per foot, b 30.
4 shs Hale & Norcross at 350 per foot. b 30.
1 sh Yellow Jacket at 900 per foot, b 30.
6 shs Yellow Jacket at 1000@995 per foot.
1 sh Yellow Jacket at 1000 per foot, b 10.
1 sh Yellow Jacket at 970 per foot, s 3.
5 shs Yellow Jacket at 950@300 per ft, s 10.
52 shs Belcher at 490@500 per foot.
332 shs Ophir at 390@430 per foot.
12 shs Ophir at 400 per foot, s 10.
5 shs Ophir at 415 per share, b 30.
1 sh Crown Point at 900 per foot.
12 shs Gould & Curry at 1100 per foot.
2 shs Savage at 1000@995 per foot.
5 shs Savage at 1000 per foot, b 10.
1 sh Savage at 1000 per foot, b 3.
4 shs Alpha, G. H., at 1055 per foot, b 30.
4 shs Alpha, G. H., at 1010 per foot, s 3.
4 shs Alpha, G H, at 1020 per foot.
00 shs Imperial at 187½@196 per share.
5 shs Imperial at 187½ per share, b 5.
10 shs Imperial at 200 per share, b 10.
25 shs Imperial at 200 per share, b 30.
20 shs Imperial at 200 per share, b 20.
5 shs Imperial at 196 per share, b 3.
1 sh Confidence at 75 per share, b 30.
2 shs Confidence at 62½@60 per share.
1 sh Overman at 100 per foot.
20 shs Bullion at 75@80 per share, b 10.
5 shs Bullion at 80 per share, b 3.
1 sh Empire M & M Co. at 150 per sh. b 30.
25 shs Sierra Nevada at 13@12½ per share.
Amount of sales.....$105,164 00

Monday, October 23.

8 shs Chollar at 410 per foot.
4 shs Chollar at 415 per foot, s 3.
4 shs Chollar at 420 per foot.
8 shs Chollar at 425 per foot.
28 shs Chollar at 430 per foot, s 3.
4 shs Chollar at 430 per foot.
40 shs Chollar at 430 per foot, r w.
40 shs Chollar at 425 per foot, r w.
16 shs Chollar at 425 per foot.
12 shs Potosi at 405 per foot, b 15.
4 shs Potosi at 405 per foot.
36 shs Potosi at 400 per foot, s 3.
4 shs Potosi at 400 per foot.
10 shs Potosi at 410 per foot, b 30.
4 shs Hale & Norcross at 350 per foot, b 30.
1 sh Yellow Jacket at 900 per foot, b 30.
2 shs Yellow Jacket at 975 per foot.
2 shs Yellow Jacket at 1000 per foot.
1 sh Yellow Jacket at 1000 per foot, b 10.
1 shs Yellow Jacket at 970 per foot, s 8.
1 sh Yellow Jacket at 960 per foot.
1 sh Yellow Jacket at 950 per foot, s 10.
1 sh Yellow Jacket at 955 per foot.
3 shs Yellow Jacket at 940 per foot, s 10.
1 sh Yellow Jacket at 920 per foot, s 10.
3 shs Belcher at 490 per foot.
3 shs Belcher at 495 per foot.
6 shs Beleher at 500 per foot.
12 shs Ophir at 390 per foot.
12 shs Ophir at 400 per foot.
12 shs Ophir at 400 per foot, s 10.
72 shs Ophir at 410 per foot.
12 shs Ophir at 425 per foot.
12 shs Ophir at 430 per share.
12 shs Opbir at 412½ per foot.
5 shs Ophir at 415 per share, b 30.
1 sh Crown Point at 900 per foot.
12 shs Gould & Curry at 1100 per foot.
1 sh Savage at 1000 per foot.
3 shs Savage at 1000 per foot, b 10.
1 sh Savage at 1000 per foot, b 3.
1 sh Savage at 995 per foot.
4 shs Alpha, G. H., at 1055 per ft, b 30.
4 shs Alpha, G. H., at 1010 per foot, s 3.
4 shs Alpha, G H, at 1020 per foot.
5 shs Imperial at 187½ per share.
30 shs Imperial at 195 per share.
16 shs Imperial at 197½ per share. b 5.
10 shs Imperial at 200 per share, b 10.
25 shs Imperial at 200 per share, b 30.
10 shs Imperial at 200 per share, b 26.
5 shs Imperial at 196 per share, b 3.
10 shs Imperial at 200 per share, b 20.
15 shs Imperial at 196 per share, r w.
1 sh Confidence at 75 per share, b 30.
1 sh Confidence at 62½ per share.
1 sh Confidence at 60 per share.
1 sh Overman at 100 per foot.
10 shs Bullion at 75 per share, b 10.
10 shs Bullion at 80 per share, b 10.
5 shs Bullion, at 80 per share, b 3.
1 sh Empire M & M Co. at 150 per sh, s 30.
5 shs Sierra Nevada at at 13 per share.
20 shs Empire M. & M. Co. at 12½ per sh.

AFTERNOON SESSION.

12 shs Potosi at 400 per foot.
6 shs Potosi at 390 per foot.
16 shs Potosi at 380 per foot.
8 shs Potosi at 382½ per foot.
2 shs Potosi at 389 per foot, b 3.
10 shs Potosi at 375 per foot, s 30.
2 shs Yellow Jacket at 950 per foot, s 10.
2 shs Yellow Jacket at 950 per foot.
1 sh Yellow Jacket at 940 per foot, s 10.
6 shs Yellow Jacket at 940 per foot.
3 shs Yellow Jacket at 930 per foot, s 3.
1 shs Yellow Jacket at 950 per foot, b 15.
1 sh Yellow Jacket at 920 per foot, s 30.
1 sh Yellow Jackpt at 930 per foot.
1 sh Yellow Jacket at 930 per foot, s 10.
1 sh Yellow Jacket at 925 per foot.
3 shs Yellow Jacket at 950 per foot, b 30.
1 sh Yellow Jacket at 945 per foot, s 15.
12 shs Chollar at 420 per foot.
8 shs Chollar at 417½ per foot.
4 shs Chollar at 415 per foot.
4 shs Chollar at 410 per foot.
4 shs Chollar at 405 per foot.
20 shs Chollar at 400 per foot.
8 shs Savage at 990 per foot,
2 shs Savage at 980 per foot.
3 shs Savage at 985 per foot, s 3.
2 shs Overman at 115 per foot.
10 shs Overman at 125 per foot.
11 shs Overman at 120 per foot.
19 shs Overman at 125 per foot, b 30.
10 shs Overman at 115 per foot, s 30.
3 shs Overman at 115 per foot, s 3.
5 shs Overman at 120 per share, s 10.
5 shs Overman at 122½ per foot.
3 shs Overman at 120 per foot, s 3.
5 shs Overman at 115 per foot, s 3.
12 shs Ophir at 410@430 per foot.
48 shs Ophir at 412½ per foot.
48 shs Ophir at 410 per foot.
24 shs Ophir at 400 per share, s 30.
2 shs Hale & Norcross at 360 per foot.
4 shs Gould & Curry at 1090 per foot.
1 sh Gould & Curry at 1080 per foot, s 30.
7 shs Confidence at 62½ per share.
5 shs Confidence at 60 per share.
15 shs Bullion at 82½ per share, b 30.
10 shs Bullion at 80 per share.
10 shs Bullion at 79 per share.
5 shs Bullion at 85 per share, b 30.
5 shs Bullion at 80 per share, b 3.
3 shs Imperial at 195 per share.
10 shs Imperial at 200 per share.
5 shs Imperial at 198 per share.
10 shs Imperial at 197½ per share.
11 shs Imperial at 196 per share.
15 shs Sierra Nevada at 13 per share.
Amount of sales.....$195,230 00

Tuesday, October 24.

2 shs Potosi at 370 per foot.
12 shs Potosi at 380 per foot.
6 shs Potosi at 375 per foot, b 5.
6 shs Potosi at 377½ per foot.
24 shs Potosi at 377 per foot.
8 shs Potosi at 375 per foot.
8 shs Overman at 110@115 per foot.
5 shs Overman at 112½ per foot.
80 shs Daney at 17 per foot.
3 shs Belcher at 495 per foot, r w
9 shs Beleher at 500 per foot.
2 shs Beleher at 510 per foot.
2 shs Beleher at 520 per foot.
5 shs Yellow Jacket at 915 per foot, s 3.
8 shs Yellow Jacket at 925 per foot, s 3.
3 shs Yellow Jacket at 925 per foot.
2 shs Yellow Jacket at 925 per foot.
4 shs Yellow Jacket at 925 per foot, b 3.
3 shs Yellow Jacket at 915 per foot, r w.
2 shs Yellow Jacket at 910 per foot.
3 shs Yellow Jacket at 900 per foot.
1 sh Yellow Jacket at 910 per foot, r w.
2 shs Yellow Jacket at 900 per foot, b 3.
92 shs Chollar at 400 per foot.
44 shs Chollar at 410 per foot, b 30.
4 shs Hale & Norcross at 335 per foot.
12 shs Ophir at 400 per foot.
12 shs Ophir at 410 per foot, b 30.
86 shs Potosi at 405 per foot.
1 sh Savage at 925 per foot.
2 shs Savage at 915 per foot, b 3.
1 sh Savage at 912½ per foot.
1 sh Savage at 900 per foot, s 30.
25 shs Imperial at 200 per share.
5 shs Imperial at 200 per share, b 10.
6 shs Imperial at 200 per share, b 3.
10 shs Imperial at 200 per share, s 3.
5 shs Imperial at 202 per share.
5 shs Imperial at 202½ per share, s 3.
15 shs Imperial at 205 per share, b 10.
7 shs Imperial at 204 per share.
60 shs Imperial at 105 per share, s 3.
5 shs Imperial at 206 per share.
10 shs Imperial at 205 per share, b 3.
15 shs Sierra Nevada at 13 per share.
10 shs Exchequer at 15 per share s 3.
22 shs Empire M & M Co. at 150 per sh, r w.
50 shs Spring Valley W Co at 5½ per cent.
125 ihs Firem'ans' Ins Co, 130 per cent.

AFTERNOON SESSION.

100 shs Daney at 18 per foot,
20 shs Daney at 19 per share.
20 shs Daney at 20 per share, s 3.
20 shs Daney at 21 per foot.
4 shs Crown Point at 875 per foot, b 30.
4 shs Crown Point at 840 per loot, s 30.
2 shs Hale & Norcross at 350 per foot.
2 shs Hall & Norcross at 367½ per foot.
2 shs Yellow Jacket at 850@850 per foot.
3 shs Yellow Jacket at 850 per foot, r w.
3 shs Yellow Jacket at 875 per foot, b 30.
1 sh Yellow Jacket at 840 per foot, b 3.
1 sh Yellow Jacket at 840 per foot, s 3.
2 shs Yellow Jacket at 840 per share, r w
3 shs Yellow Jacket at 950 per foot, b 10.
9 shs Yellow Jacket at 850 pr ft, b 3.
12 shs Belcher at 540 per foot.
6 shs Beleher at 545 per foot, b 3.
3 shs Beleher at 540 per foot, s 3.
6 shs Belcher at 530 per foot, s 10.
9 shs Belcher at 510 per foot, s 10.
8 shs Belcher at 520 per foot.
3 shs Belcher at 500 per foot, s 6.
1 sh Savage at 895 per foot.
1 sh Savage at 895 per foot, r w.
11 shs Overman at 107½@108 per share.
25 shs Imperial at 201 per share, s 3.
5 shs Imperial at 202 per share, s 3.
5 shs Imperial at 203 per share, s 3.
30 shs Imperial at 204 per share.
2 shs Imperial at 205 per share.
10 shs Imperial at 202½ per share, s 3.
5 shs Imperial at 200 per share, s 3.
12 shs Exchequer at 15 per share.
20 shs Sierra Nevada at 12 per share.
10 shs Sierra Nevada at 13 per share.
8 shs Fullion at 75 per share.
5 shs Bullion at 72½ per share.
5 shs N. American, Ex Sam, at 18, s 3.
Amount of sales.....$164,698 00

Wednesday, October 25.

20 shs Chollar at 415 per foot, b 30.
4 shs Chollar at 400 per foot.
4 shs Chollar at 395 per foot, s 5.
28 shs Chollar at 395 per foot.
20 shs Chollar at 410 per foot, b 30.
20 shs Chollar at 395 per foot, b 30.
20 shs Chollar at 390 per foot.
80 shs Chollar at 400 per foot, b 5.
½ sh Yellow Jaeket at 800 per foot.
4 shs Yellow Jacket at 780@810 per ft, r w.
7 shs Yellow Jacket at 790 per foot.
3 shs Yellow Jacket at 815 per foot.
4 shs Yellow Jacket at 8.0@825, r w.
2 shs Yellow Jacket at 800 per foot, s 10.
1 sh Yellow Jacket at 820 per foot.
8 shs Crown Point at 880 per foot.
4 shs Crown Point at 870 per foot, s 30.
2 shs Potosi at 365 per share.
3 shs Overman at 102½ per foot.
8 shs Gould & Curry at 1025 per foot, r w.
4 shs Gould & Curry at 1020 per foot.
10 shs Hale & Norcross at 340 per foot, s 3
4 shs Hale & Norcross at 340 per foot.
36 shs Ophir at 400 per foot.
3 shs Belcher at 475 per foot.
8 shs Belcher at 460 per foot.
3 shs Belcher at 450 per foot.
32 shs Daney at 20 per foot.
16 shs Daney at 21 per share.
40 shs Daney at 22 per foot.
10 shs Imperial at 200 per share, b 3.
10 shs Imperial at 202½ per share, b 30.
16 shs Imperial at 199 per share.
15 shs Imperial at 199 per share, s 3.
5 shs Imperial at 195 per share, s 30.
5 shs Imperial at 196 per share, s 30.
10 shs Imperial at 200 per share, r w.
34 shs Imperial at 200 per share.
5 shs Exchequer at 27 per share. r w.
5 shs Empire M & M Co. at 160 per sh, r w.
8 shs Empire M. & M. Co. at 160, b 5.
20 shs Empire M & M Co, 160 per sh, b 30.
1 sh Empire M & M Co. at 155 per share.
5 shs Confidence at 65 per share.
31 shs Confidence at 70 per share.
5 shs Confidence at 70 per share, s 3.
5 shs Confidence at 69½ per share, s 3.
10 shs Bullion at 75 per share.
15 shs Bullion at 77½ per share, b 10.
5 shs Bullion at 77½ per share, r w
10 shs N. American, Ex Sam, at 18 per sh.
50 shs N. American, Ex Sam, at 19, r w.
50 shs State Telegraph at 27 per cent, r w.
$5,000 U. S 7-30 Bonds at 71½ per cent.

AFTERNOON SESSION.

24 shs Ophir at 394 per foot.
50 shs Ophir at 390 per foot, s 10.
84 shs Ophir at 394 per foot.
72 shs Ophir at 396 per foot.
36 shs Ophir at 390 per foot.
12 shs Ophir at 387½ per foot.
24 shs Ophir at 385 per share.
2 shs Yellow Jaeket at 850 per foot, b 30.
2 shs Yellow Jacket at 850 per foot, s 10.
3 shs Yellow Jacket at 825 per foot.
20 shs Chollar at 400 per foot, s 10.
35 shs Confidence at 70@72½ per share.
17 shs Confidence at 71@70 per share, s 3.
5 shs Confidence at 72 per share, b 5.
9 shs Confidence at 70 per share, s 3.
20 shs Imperial at 197½ per share.
25 shs Imperial at 195@194 per share.
5 shs Imperial at 190 per share, s 30.
8 shs Imperial at 194 per share.
80 shs Imperial at 189½ per share, s 30.
20 shs Imperial at 191@190 per share.
10 shs Imperial at 187 per share, s 30.
5 shs Bullion at 72½ per share.
10 shs Bullion at 77½ per share, b 30.
38 shs Empire M & M Co. at 160 per share.
5 shs Cal. Steam Nav. Co. at 73 p et., s 30.
50 shs State Telegraph at 27 per cent, r w.
Amount of sales.....$168,320 00

Thursday, October 26.

8 shs Overman at 105 per foot, b 5.
22 shs Overman at 103@101 per share, s 30.
5 shs Overman at 104 per foot.
10 shs Overman at 105 per share, b 30.
2 shs Overman at 102½@105 per share, r w.
5 shs Overman at 102½@105 per share.
4 shs Yellow Jaeket at 860 per foot, b 15.
4 shs Yellow Jacket at 810 per foot, s 10.
1 sh Yellow Jacket at 810 per foot, b 5.
1 sh Yellow Jacket at 800 per foot, r w.
4 shs Yellow Jacket at 815 per foot, s 6.
2 shs Yellow Jaeket at 810 per share.
10 shs Potosi at 370 per foot, b 5.
60 shs Ophir at 385 per foot.
4 shs Gould & Curry at 1015 per foot, r w
40 shs Daney at 20 per share.
1 sh Savage at 850 per foot, b 30.
15 shs Sierra Nevada at 12 per share, b 10.
10 sh Imperial at 187½ per share.
10 shs Imperial at 185 per shre, r w.
1 shs Imperial at 185 per share, s 3.
5 shs Imperial at 182½ per share.
10 shs Imperial at 185 per share.
20 shs Imperial at 183 per share, s 10.
10 shs Imperial at 190 per share, b 30.
1 sh Empire M & M Co. at 160 per share.
7 shs Confidence at 70 per share.
5 shs Confidence at 70 per share, s 3.
10 shs Confidence at 67½ per share.
20 shs De Soto at 6¾ per share.
20 shs Exchequer at 15 per share.
18 shs Exchequer at 15 per share, r w.
8 shs Exchequer, at 15½ per share
5 shs Cal S Nav Co at 73 per cent, s 30.
$1,500 U. S. 5-20 Bonds at 71¾ per cent.

AFTERNOON SESSION.

24 shs Ophir at 386 per foot.
180 shs Ophir at 382½ per foot, a 10.
128 shs Ophir at 380 per foot.
60 shs Ophir at 380¾ per foot, b 30.
24 shs Ophir at 390 per foot.
60 shs Ophir at 381 per foot, s 10.
12 shs Ophir at 382½ per share, b 3.
6 shs Ophir at 380 per foot.
24 shs Ophir at 380 per share, s 30.
24 shs Ophir at 385 per foot, r w.
8 shs Overman at 100@101 per share.
6 shs Overman at 97 per share, s 30.
20 shs Overman at 97½ per share.
8 shs Yellow Jacket at 810@800 pr foot.
1 sh Yellow Jacket at 800 per sh, r w.
2 shs Yellow Jacket at 800 per share, s 10.
2 shs Yellow Jacket at 800 per share, s 3.
1 sh Yellow Jacket at 802½ per share.
4 shs Yellow Jacket at 800 per share, s 5.
3 shs Savage at 850 per fool, b 30.
1 sh Savage at 855 per foot.
1 sh Empire Mill & M. Co. at 170, r w.
1 sh Empire M & M Co. at 165 p sh, s 5.
1 sh Empire M & M Co. at 165 per share.
10 shs Empire M & M Co. at 170 per sh, b 30
6 shs Imperial at 190 per share, s 3.
10 shs Imperial at 190 per share, a 6.
5 shs Imperial at 191 per share.
5 shs Imperial at 193 per share, s 5.
92 shs State Telegraph at 27 per share, r w.
Amount of sales.....$138,469 00

Friday, October 27.

8 shs Overman at 97½ per share.
7 shs Yellow Jacket at 790@800 per foot.
4 shs Yellow Jacket at 800 er share, b 6.
1 sh Yellow Jacket at 799 per share, s 10.
51 shs Imperial at 196@190 per share.
5 shs Imperial at 192 per share.
10 shs Imperial at 190 per share, s 10.
40 shs Imperial at 188 per share, s 20.
35 shs Imperial at 190@192 per share.
360 shs Ophir at 385 per share.
120 shs Ophir at 395 per foot, b 30.
10 shs Potosi at 375 per foot, b 30.
3 shs Belcher at 450 per foot.
12 shs Chollar at 390 per foot.
1 sh Empire M & M Co. at 180 per share.
4 shs Crown Point at 780 per foot.
21 shs Exchequer at 15@16 per share.
45 shs Sierra Nevada at 11@12 per share.
33 shs Confidence at 70@90 per share.
25 shs North Beach R. R. at 45 per cent.
2 shs Savage at 800 per foot.
1 sh Savage at 825 per foot, b 30.

AFTERNOON SESSION.

6 shs Gould & Curry at 1000 per foot.
13 shs Yellow Jacket at 770@750 per foot.
13 shs Yellow Jacket at 740@755 per foot.
70 shs Overman at 76½@99 per share.
1 sh Savage at 800 per foot.
24 shs Ophir at 395 per foot.
5 shs Empire M & M Co. at 176 per share.
25 shs Imperial at 191@194 per share.
30 shs Confidence at 90@88 per share.
50 shs Spring Valley W W Co at 50¾ per ct.
90 shs State Telegraph at 27 per sh.
20 shs Hale & Norcross at 325 per foot.
Amount of sales.....$148,320 00

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, October 28th, 1865.

The condition of the money market has undergone no material change since our last reference. There is, if anything, a slight increase in the demand for certain purposes, but the general inactivity of trade occasions a light business requirement. The excitement upon the Stock Exchange has somewhat moderated, but mining stock collaterals appear to be in no better favor with certain capitalists than they have been for a month past. Rates of interest are ruling at 1@1¼ ₱ cent. per month in bank, and at 1½@2 ₱ cent. for outside negotiations.

Receipts of Treasure from the interior, since Saturday last, amounted to $950,000, making an aggregate of $4,050,000 thus far during the current month.

Bullion has been in fair request this week for Monday's steamer, and gold bars have been taken to account by bankers, and others, at 845@860. Silver met with some inquiry at par@¼ ₱ cent premium.

The Stock Market has been characterized by considerable activity this week, and with scarce an exception nearly all shares have shown some improvement. The short interest continues to attract the attention of some dealers, and seller's option contracts are still made with freedom. The prospective demand for stock for future delivery growing out of these sales, imparts a little strength to the market, but recent intelligence as to the actual condition of a number of claims is not deemed favorable, and in the absence of a speculative demand for a rise, it will be difficult to enhance prices very materially at present. It is, however, proper to state that there are those who feel no apprehension as to the future productiveness of certain prominent mines, and who think it is not reasonable to conclude that they will suddenly become valueless, or even approach the condition predicted by a certain class of croakers.

Alpha is inactive, but well controlled, and 13 feet were sold, declining from $1,100 to $1,010, rallying to $1,055, and closing at about $1,075 bid Arrangements are at once to be made for the thorough development of the lower level of this mine through the shaft of the Imperial Company, from which portion no ores have as yet been hoisted.

Gould & Curry rose from $1,000 to $1,080, declined to $1,025, and closed at $1,000. There is no material change in any portion of this claim.

Yellow Jacket has been very actively dealt in, and nearly 200 feet changed hands, advancing from $725 to $1,000, declining to $780, rallying to $850, buyer 30, then selling at $810@$740, and closing at $765. During the week ending October 16th, 41 tons first-class and the 1,305 tons second-class ores were extracted from the mine. During same period 930 tons second-class ores were reduced, yielding $33.303.42, or an average of $35.78 per ton. In running north from the 360 feet and 280 feet levels, considerable bodies of good ore have been reached; and in drifting north from the air shaft, sunk 25 feet below the 360 feet level, after passing through a broken mass of ore, porphyry, and clay, good ore has been found again, and promises to hold out well. The south drift, east stratum, lower level, shows a face of quartz.

Savage is in rather less favor, and some 40 feet were sold, advancing from $900 to $1,000, receding $895, then selling at $825, buyer 30, and closing yesterday at $800.

The Minnesota Mill, recently bought at a cost of $40,000, is now running for the company, and crushing some 30 tons of ore per day. Their present debt, exclusive of the monthly payments of $5,000 each, extending over a period of eight months, to be made on account of this purchase, now amounts to about $175,000. An assessment of $100 per share was levied on the 24th instant. A number of extraordinary expenses have been incurred during the present quarter, amounting in the aggregate to $100,000, for the new shaft and other improvements, which have aided in swelling the liabilities of the company. The mine is now yielding about 120 tons of ore per day, worth at the mills some $40 per ton. The east drift, on the vein in the lower level, still continues in good ore.

Crown Point has been in less request, and small sales were made, advancing to $900, dropping to $840, rallying to $850, and closing at $760 bid. In addition to the Rhode Island and Crown Point mills, the Atlas Mill has been employed, and is now crushing for the company The character of the ore taken from the 230 feet level has of late somewhat deteriorated. The inclines from that level are being sunk as rapidly as possible, all three of which now carry ore, and are said to look exceedingly well. Good indications have been met with lately in the lower level drift, and the lode is thought to be near at hand.

Belcher was in much better favor early in the week, advancing from $400 to $540, receding since then to $450, and closing at $460. Some seams of good ore are now being worked in the 300 feet level, which may lead to something better.

Ophir has been active, and nearly 180 feet has been sold, advancing from $375 to $430, steadily declining to $385, and selling yesterday at $385.

Hale & Norcross rose from $325 to $367½, dropped to $340, and sold at the close at $325. Cross-cutting has commenced from the north drift on the 700 feet level, and some promising looking quartz and much water has been met with thus far In "raising up" from that level a connection will soon be made with the south winze, sunk from the 535 feet level.

Chollar has been active, and more than 200 feet were sold, advancing from $370 to $430, receding to $390, and selling yesterday at $390@$392. Potosi rose from $350 to $410, receded to $365, closes at about $362, within which range 110 feet changed hands. Drifting continues north of the Potosi shaft, above the level of the Potosi tunnel, disclosing about 50 feet of good ore thus far. From the stopes in the Bajazette ground, about the usual quantity of ore is now taken. It is proposed to open a new level, eighty feet in length, at this point, in order to work up from beneath. The new development in the north end of the stopes, in the fifth station, is turning out some 20 tons of ore per day. This body has been traced 20 feet above the 4th station of the Chollar mine, and bids fair to prove of some value. From the old air shaft, they have run two drifts, southwest and southenst, and present explorations disclose a body of low grade ores, 30 feet wide, 30 feet long and 70 feet high, equal to 5,000 tons. During the week ending October 21st, 470 tons of ore were shipped to custom mills, and 583 tons were sold at $7@8 per ton. The new shaft is timbered to a depth of 452 feet. The consolidated Chollar-Potosi stock is now being issued to the shareholders of the old incorporations.

Imperial rose from $175 to $205, receded to $182½, rallied to $190 buyer 30, then sold at 193, and closed yesterday at $196@$194, at which rates more than 1,000 shares have been sold. It is said upon reliable authority that this mine is looking fully as well as ever, and that the yield this month will show a considerable increase over the two past months. A large reserve of ore is being accumulated to provide for the contingencies of winter. Receipts of bullion during the month of October, including balance carried over, will probably amount to $110,000, leaving at least $50,000 for the next dividend, after meeting current and extraordinary expenses.

Empire Mill and Mining Company rose from $150 to $170, and closed at $170. Overman advanced from $95 to $122½, fell to $102½, then sold at $97, and closed yesterday at $99. Bullion fell to $62, rose to $82½, then sold at $72½ cash, and $77 buyer 30, closing yesterday at $72.

Confidence (G. H.) rose from $65 to $75, fell to $62, rallied to $70, declined to 67½, and sold yesterday at $90. Sierra Nevada fell from $14 to $12, and closing at $12. Daney advanced from $15 to $22, and then sold at $20.

The total recorded sales of stocks, since Saturday last amounted to $921,201.00.

Fluctuations in Leading Mining Shares for the past Six Months.

Name of Company.	April 10th.	April 20th.	May 1st.	May 10th.	May 20th	June 1st.	June 10th.	June 20th.	July 1st	July 10th.	July 20th.	July 30th.	August 10th.	August 20th.	Sept. 1st.	Sept. 10th.	Sept. 20th.	Oct. 1st.
Gould & Curry.....per ft.	2,015	1,775	1,590	1,480	1,660	1,525	1,625	1,645	1,750	1,750	1,700	1,500	1,500	1,475	1,135	1,300	1,240	1,250
Ophir.....	560	560	500	480	550	485	480	500	485	485	530	425	400	390	280	385	415	340
Savage.....	2,025	2,020	1,600	1,575	1,300	1,190	1,150	1,425	1,375	1,400	1,310	1,175	1,250	1,300	1,300	1,225	1,315	1,225
Potosi.....	915	850	750	425	337	294	312	467	342	350	295	480	465	440	410	420	410	472
Chollar.....	942	830	680	425	375	315	317	473	345	370	410	500	490	500	475	455	430	500
Hale & Norcross.....	625	600	450	400	455	440	400	650	560	555	570	625	520	510	480	520	550	750
Sierra Nevada.....	....	50	28	....	20	14	13	18	....	....	....	....	....	....	....	....	....	....
Dancy.....	15	....	20	....	22	15	15	15	14	....	....	....	50	70	43	40	40	35
Wide West.....	17	16	10	9	7	5	4	3	7	8	6	....	....	....	....	....	16	8
Burning Moscow.....	38	50	47	41	45	40	46	57	34	29	25	29	25	34	24	20	5	....
Pride of the West.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bullion.....	135	151	150	135	132	135	130	165	149	175	180	175	57	175	160	....	125	126
Real del Monte.....	14	....	....	....	....	12	10	....	....	....	....	....	....	....	....	....	....	....
El Dorado.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Overman.....	325	300	245	240	180	115	100	120	180	342	305	200	241	213	190	135	170	175
Sierra Nevada.....	26	22	16	17	14	14	12	14	15	10	14	25	20	18	19	22	21	17
Yellow Jacket.....	2,300	2,400	2,070	1,515	1,550	1,400	1,320	1,150	1,000	1,015	1,105	1,220	1,350	1,355	1,420	1,460	1,405	1,345
White & Murphy.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Skiles.....	....	....	....	....	....	....	....	....	....	75	60	....	....	....	....	....	....	....
Uncle Sam.....	350	285	250	245	200	115	100	155	185	345	307	190	240	215	193	185	....	....
Baltic.....	15	....	....	....	....	....	....	....	....	20	16	....	....	....	....	....	....	....
North American.....	34	....	30	....	25	30	28	25	23	35	42	35	30	29	21	16	....	....
Baltimore American.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Meiones.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Antelope.....	23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Napoleon.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sacramento.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Utah.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lady Bryan.....	....	....	....	....	....	....	....	....	....	6	6	....	....	3	....	....	....	....
Imperial.....	213	235	235	242	235	139	175	217	238	245	218	227	230	255	252	25	221	232
Crown Point.....	1,360	1,170	1,100	1,000	885	725	780	750	765	800	900	905	900	1,250	1,120	1,115	1,150	1,130
Belcher.....	1,800	1,620	1,310	1,200	1,105	925	620	695	760	775	850	850	805	875	900	900	910	875
Alpha.....	....	....	....	....	....	....	....	....	....	1,450	1,400	1,470	....	1,425	1,500	1,925	1,950	2,100	2,200

Authorized Scale of Commissions Adopted by the S. F. Stock and Exchange Board.

Miscellaneous.

Funded Debt, on par	½ per cent
Insurance Stocks, on par	½ per cent
Wharf Stocks, on par	½ per cent
Gas Stocks, on par	½ per cent
Railroad Stocks, on par	½ per cent
Steamboat Co. Stocks, on par	½ per cent
Telegraph Co. Stocks, on par	½ per cent
Water Co. Stocks, on par	½ per cent
Legal Tender Notes and Bonds, on par	¼ per cent
Bills of Exchange, on net amount	½ per cent
Mint Certificates, on net amount	½ per cent
Specie, on net amount	¼ per cent

Commissions on Mining Shares.

Sale at	1 dollar up to 10 dollars per foot	$0 25 per foot
Sale at	10 dollars up to 25 dollars	50 per foot
Sale at	25 dollars up to 50 dollars	1 00 per foot
Sale at	50 dollars up to 100 dollars	1 50 per foot
Sale at	100 dollars up to 200 dollars	2 00 per foot
All over $200 per foot, or share, one per cent. on the amount of purchase or sale.		

FRANKLIN LAWTON, Secretary

J. B. E. CAVALLIER President.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'D DELINQ'T LIST.	DAY OF SALE.
Apollo, Lander co., 50c		Oct 7	Oct 23*
Adams, Petroleum, Contra Costa co., $7.50		Nov. 3	Nov. 15
Astor, Storey co., Nev., $1.50		Nov 11	Nov 27*
Arizona Copper, Arizona, 25c		Nov 25	Dec 8
Altaville Quartz M Co		Annual Meeting	Oct 31
Bella Vista, Lower Cal., 30c		Oct 14	Oct 28*
Black Ledge, Lander co., $2		Oct 7	Oct 24*
Blue Ledge, Lander co., 50c		Oct 7	Oct 23*
Boston, El Oorado co., 50c		Nov 7	Nov 21
Buckeye, Lyon co., Nev., $3		Oct 7	Oct 23
Bolinas, Marin co., 50c		Nov 4	Nov 20*
Butte, Humboldt co., $1.50		Nov 15	Nov 27
Bullion, Storey co., Nev		Sale, Nov 9	
Chipionena, Sonora, Mex., $5		Oct 14	Oct 28
Cortez, Lander co., Nev., $2		Oct 18	Oct 31
Comet, Petroleum, Humboldt co., 30c		Nov 18	Dec 4*
Colorado M. and M. co		Annual Meeting, Nov 13*	
Caledonia Tunnel		Annual Meeting, Nov 13*	
Chloride Ledge, Calaveras co., $1		Nov 18	Dec 2*
Cosala, Sinaloa, Mex., $1		Nov 17	Nov 30
Camargo, Lander co., Nev., $5		Nov 25	Dec 9*
Confidence, Storey co., Nev		Annual Meeting, Nov 10	
Diamond, Del Norte co., $2		Oct 19	Nov 7
Dancy, Lyon co., Nev., $1.50		Nov 6	Nov 25
Edward Everett, Lauder co., 25c		Oct 14	Oct 28*
Evoea Cons., Del Norte co., 50c		Nov 4	Nov 20*
El Tesoro, La Paz, Lower California, $1		Nov 16	Nov 23
Emelia Guerrero, Mex., 25c		Nov 25	Dec 9*
Eagle, Amador co., 75c		Nov 25	Dec 14*
Elk Horn, Petroleum		Annual Meeting, Nov 9	
El Tesoro S M Co		Annual Meeting, Nov 6	
Exchequer, Storey co., Nev., $2		Nov 24	Dec 9
Florida, Reese River, Nev. $10		Oct 13	Nov 4
Franco Americana, San Antonio, L. C., 25c		Nov 21	Dec 4
Florida, Reese River		Adjourned Meeting, Nov 1	
George Washington, Alpine co., $1		Oct 21	Nov 6*
Good Hope, Alpine co., 50c		Oct 14	Oct 28*
Golden Rule, Dividend		Payable Oct 20	
Gold Canon Cons., Storey co., Nev., 55c		Nov 6	Nov 25
Honest Miner, Lander co., 50c		Oct 28	Nov 13*
Hanscom, Copper, Del Norte co., 15c		Nov 11	Nov 27*
Hale & Norcross, Storey co., Nev., $26		Nov 27	Dec 11
Hornet, Lander co., Nev., 50c		Oct 21	Nov 21*
Imperial		Dividend Payable Oct 10	
Joe Lane, Lander co., 50c		Oct 7	Oct 23*
Jewett, Storey co., $1		Nov 11	Nov 25*
Josephine, Coso District, $1		Oct 25	Nov 9
Kentucky, Calaveras co., $1		Oct 10	Oct 30
Knox, Alpine co., 40c		Nov 11	Nov 25*
Kohler Bros., San Antonio, L. C		Special Meeting	Nov 1
Keokuk, Contra Costa co., 10c		Nov 18	Dec 4*
La Blanca, Sonora, Mex., 2.50		Oct 12	Oct 25
London, Siskiyou co., 50c		Oct 30	Nov 11
Lady Bell, Del Norte co., 15c		Nov 2	Nov 14
La Victoric, Mariposa co., $3		Nov 4	Nov 20
Lancha Plana, Calaveras co., $2		Levied Oct 5*	
Leon, Esmeralda co., Nev., 35c		Nov 17	Dec 18
Lady Bell C M Co		Adjourned Annual Meeting, Nov 23	
La Favorita, Sonora, Mex., 50c		Nov 25	Dec 9*
La Fernandez, Sonora, Mex., $5		Nov 23	Dec 8
Libertad, Sonora, Mex., $5		Nov 21	Dec 6
Mammoth, Alpine co., $1		Oct 23	Nov 13*
Melones and Stanislaus, Calaveras co., $2.50		Nov. 7	Nov 20
Maria, Chihuahua, Mex., $1		Nov 18	Dec 2*
North American Tin, Mexico, $1		Oct 14	Nov 1
Nonpareil, Tuolumne co., $1		Oct 23	Nov 6
Nuestra Senora de Guadalupe, Jalisco, $6		Oct 16	Oct 28
Nuestra Senora de Guadalupe, Durango, 70c		Oct 21	Nov 6
Ontario, Lander co., 50c		Oct 21	Nov 6*
Old Colony Lander co. $6		Oct 14	Nov 1*
Ophir, Storey co., Nev., $8.33½		Oct 3	Oct 28
Oroville, Butte co., $1		Nov 18	Dec 2*
Open Sesame		Annual Meeting, Nov 14	
Pizarro, Lander co., 10c		Oct 21	Nov 4*
Potosi, Storey co., Nev., $9.50		Nov 6	Nov 20
Paragon, Humboldt co., 50c		Oct 4	Oct 26
Providential, Lander co., Nev		Sale Oct 27	
Patrocina and Dolores		Annual Meeting	Nov 13
Porter, Butte co., Cal., $1		Nov 18	Nov 30
Peninsula, San Antonio District, L. Cal., $10		Nov 17	Nov 30
Providential, Reese River		Annual Meeting, Nov 8	
Refugio, Chihuahua, Mex., $2 50		Nov 11	Nov 23
Southern Light, Lander co., 50c		Oct 28	Nov 15*
Simpson, Alpine co., 25c		Oct 14	Oct 28*
Segregated Belcher, Storey co., $2		Oct 7	Oct 23*
Sierra Nevada, Storey co., Nev., $7.50		Oct 7	Oct 21
Shoshone, Lander co., Nev., $2		Oct 9	Oct 23
Salambo, Tuolumne co., 75c		Nov 6	Nov 25
Segregated Belcher		Annual Meeting	Oct 24
San Fernando, Petrolcum		Adjourned Meeting, Nov 6*	
Sierra Valley, Plumas co., $1		Nov 13	Nov 25
Salambo, Tuolumne co., 75c		Nev 6	Nov 25
St Louis, Reese River		Annual Meeting, Nov 8	
Santa Cruz, San Antonio, Lower Cal., $3		Nov 17	Nov 29
Savage, Storey co., Nev., $100		Nov 28	Dec 13
Santa Cruz, Petrolcum, 40c		Nov 25	Dec 14*
Segregated Belcher, Gold Hill, $4		Nov 25	Dec 9*
United States, 25c		Oct 21	Oct 28*
Wide West, Esmeralda co., $5		Nov 18	Dec 4*
Walipi, Arizona, $1		Oct 14	Oct 30*
Wide West, Alpine co., $1		Oct 14	Oct 30*
Wide West, Esmeralda, Nev., $5		Nov 6	Nov 20
Waitt Con. Colorado Dist., Arizona.		Adjourned Meeting	Oct 25
Yo Semite, Humboldt co., Nev., $1.25		Oct 21	Nov 6*
Yankee Blade, Lander co., 30c		Oct 7	Oct 27*
Yuba, Brown Valley		Annual Meeting, Oct 24	

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Astor	Oct 12	1 00
Cortez	Sept 21	2 00
California Consol M and M Co	Oct 17	1 00
Flowery Hill	Sept 27	2 00
Gold Canon	Oct. 5	55
Globe	Oct 18	1 00
Kennedy	Oct 19	12 50
Mount Morale and Lincoln	Sept 29	15
Nevada	Oct 5	7 00
Potosi	Oct 6	9 50
Peck	Oct 17	1 00
Sierra Nevada	Sept 17	7 50
Schiller	Aug 23	1 00
Sand Springs Salt	Oct 1	5 00
Union (Peavine)	Oct 12	25

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale
American Flat Nevada	Oct 23	Virginia
Branch Mint	Oct 28	Virginia
Bishop	Oct 27	Gold Hill
Bullion	Nov 9	Virginia
Central Hawkeye	Nov 13	Gold Hill
Do Oroot	Oct 31	Virginia
Globe	Nov 16	Virginia
Keystone	Nov 21	Gold Hill
Mount Blanc	Nov 3	Virginia
North American	Oct 30	Virginia

MINING AND SCIENTIFIC PRESS

PATENT AGENCY.

For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 4th, 1861, and March 3d, 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant thereof: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of such notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues. If the application is rejected we a cause thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or paluted; the name of the ovenior should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are prepared them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 yrs and 6 mos	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every application for a patent, for seventeen years	15
On every caveat	10
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
n appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, O. C	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, No. 505 Clay street, corner of Sansome, San Francisco.

MINING BLANKS

For Sale

AT THE

OFFICE OF THE MINING AND SCIENTIFIC PRESS,

No. 505 Clay Street, corner of Sansome.

Blanks for Mining Companies, Secretaries, Shareholder, and others, always on hand, or printed to order, at our office.

Among others are those of the following forms:

Shareholder's Proxy.

Know all men by these presents, that I, ... do hereby constitute and appoint ..... my attorney and agent, for me and in my name, to vote as my proxy, at a meeting of the ..... Mining Company, to be held ..... 186, according to the number of votes that I should be entitled to cast were I there personally present.

In witness whereof I have this day hereunto set my hand and seal. .....[Seal]

Dated 186

Assessment Notice.

..... Company

.....

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the ..th day of ....., 186, an Assessment of .....per share was levied upon the Capital Stock of said Company, payable on the ..th day of .....186, in United States gold and silver coin to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the ..th day of ....., 186, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on ....., the ..th day of ....., 186, to pay the delinquent Assessment, to gether with the costs of advertising and expenses of the sale. By order of the Board of Trustees.

..... Secretary.

Office.....

NOTICE.—There are delinquent, upon the following described Stock, on account of assessment levied on the ..th day of ..... 186, the several amounts set opposite the names of the respective shareholders as follows, to wit:

Names.	No. Certificate.	No. Shares.	Amount.
Theophilus Thistle	23	14	$140 00
Peter Pipe	2	3	30 00

And in accordance with law and an order of the Board of Trustees, made on the ..th day of ...., 186, so many shares of each parcel of said stock as may be necessary, will be sold at the.....

....., on ....., the ..th day of....., 186, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

..... Secretary.

Office.....

☞ Our advertisers are furnished with blank Assessment Sale notices free of charge. Orders from the interior promptly filled by mail or express, as may be desired.

A Business Compliment.

PETALUMA, Oct. 4, 1865.

MESSRS. DEWEY & Co.—Gentlemen: Your note informing me that my patent for Crushing and Baling Machine is ordered to issue is at hand. Please accept my thanks for the prompt and business-like manner with which the case has been conducted, and inclosed find twenty dollars for balance Government fees. Respectfully, etc.

JACOB PRICE.

Mining Summary.

CALIFORNIA.

The near approach of the rainy season always gives new life and impetus to business of every kind in California. Both the miner who digs deep into the earth for its golden treasures, and the agriculturalist who merely stirs and tills the upper soil, look with anxiety and interest for the annually recurring autumnal rains, which furnish the medium through which alone either can hope for success in the prosecution of their labors. The prospects, at the present writing, are especially favorable for an early and abundant presence of the needed element, and the hearts of all are buoyant with hope. Especially is this the case in our own State. Our exchanges for the past week are more than usually filled with mining items, recording progress in old workings, announcing discoveries of new placers and veins, and recording preparations for the usual winter operations for heavy sluicing and hydraulic washings.

Trinity County.—In this county, according to the *Journal*, the mining population has increased during the year—a rather notable feature of late in the mining districts of California. In some of the districts of this county new discoveries have been made. Important developments are reported on the North Fork, where a new camp has grown up and a large amount of gold has been taken out. Taylor's Flat, once abondoned, is now giving profitable employment to a large number of miners. A hundred men are at work on New River, where not more than a dozen were employed a year ago. The extension of the ditch taking water from Buckeye Creek is progressing—five miles are already completed.

In Shasta, according to the *Courier*, prospects are also brightening. Another rich ledge has been discovered by Mr. Farrington, near Whiskytown. What appears to be a very valuable discovery has also been made by Mr. Jas. Scammon, about three-quarters of a mile from the center of the town. It was discovered in an abandoned prospecting hole, by the side of the road, in which he found a rich specimen. On further examination, a very fine ledge was developed, similar in character to the Highland lode at French Gulch. The discovery being made known, the people became excited, and on Sunday and Monday the whole region of country between the stage road and the river was covered with notices of claims. The same paper says that the Morehead boys made another pleasant report on the 13th inst. of $1,287.27. On the 22d ult. they brought, as the result of twenty-five tons crushed, $1,620.84 Since that time the first-named amount has been taken out, and all with a little three-stamp mill, and the stamps nearly worn out at that.

Butte.—The Marysville *Express* chronicles the reception in that city, by Messrs. Rideout & Smith, of the snug little sum of $95,000 in bars, from some of the mining regions in that vicinity—locality not given.

Plumas.—The *Messenger* says that the claims of the Monitor company, at Saw-Mill Flat, are still paying well. One of the largest dump-sheds in Plumas county has been erected at these works, measuring 40 by 125 feet. Quite a little village has already sprung up about the works. Another company just below are bombarding the bed-rock, expecting to get gravel by Spring, when even more busy times at Monitor are expected.

The boys in the Old Branch claims, near Forest City, lately found a boulder in their ground that weighed twenty pounds, and was nearly all gold. The estimated worth is between three and four thousand dollars.

Nevada.—The Grass Valley *National* says that the Badger Hill company have "struck it very rich" in a narrow drift, on the main ledge, east from the shaft. They struck the main ledge on a raise in the bed-rock, in a narrow drift started to prospect the pitch of the new ledge, which runs some 30 or 40 feet under the present shaft, and which is in size from 8 to 20 inches. The depth of the drift from surface is from 60 to 70 feet.

Messrs. Loutzenheiser, McLaughlin, and O'Keefe are commencing the erection of a crushing mill on the Hartery claim. The mill will be in operation by the first of January next. Mr. O'Keefe has recently purchased a quarter interest in this claim from Mr. Loutzenheiser for $15,000.

The *Transcript* at Nevada says that an excellent quartz ledge has recently been opened by Edward Harvey and others at Wood's ravine. One hundred and fifty-three tons of rock was taken out and crushed at Sogg's mill. It paid twenty dollars to the ton. Another ledge near, and running parallel with the first, is now being prospected. The rock looks well, and the ledge will no doubt prove valuable.

The Oroville mill, now under the management of Mr. F. A. Miller, will be ready for custom-work by the 10th of November.

Placer.—According to the Folsom *Telegraph*, there is an unusual degree of activity manifested at the present time in that neighborhood, and along the borders of Placerville and El Dorado counties. The new machinery recently introduced for working auriferous dirt is pronounced a great success, and most important developments are soon expected in that direction. The *Telegraph*, speaking of the machinery, says: "After running through a ton of Willow Spring Hill dirt it realized about fourteen dollars. A ton of red dirt from the claim of B. C. Quigley has been run through, but not yet cleaned up, and we are unable to give the result. So well satisfied are the experienced miners of the success of 'Hodge's Amalgamating Press,' that two or three mills will immediately be erected in this vicinity. Any person desirous of inspecting the new process, can do so by visiting Quigley's steam works, in Folsom."

Arrangements are nearly completed for the erection of a first-class mill on the Layne silver claim. Five new mills for mining purposes will shortly be erected in the vicinity of Folsom.

Some of the richest decomposed quartz ever seen in Folsom may be seen at the banking-house of Palmer & Day. It is from the claim owned and worked by the above-named gentlemen, situated near White Rock, on the eastern limit of this county, and was formerly known as the Brooks' claim. The paying lode is about two feet in width, and the rock now being taken out—about four tons per day—it is believed will pay about five hundred dollars per ton. The rock is now being crushed by the mill attached to the assay works of Palmer & Day, in this place. The *Telegraph* is informed by Mr. Palmer that they intend immediately to erect a large mill on the ledge. Mining interests are decidedly improving in that neighborhood.

Work on several copper claims, among them the Mistletoe and Pequanna, and situated near Cotherin's store, on the line of the Placerville Railroad, is about to be commenced again. These claims are situated on what is believed to be the copper belt running from Copperopolis through Amador and the eastern portion of the county. The ores taken from the above claims, certainly denote as rich copper ore in the vicinity as any of the mines that have been fully opened, and from which fortunes are now being taken out in Calaveras county.

El Dorado.—A little over two years ago, says a Placerville paper, copper companies were being organized in this county by the dozen, and work commenced on quite a number of claims, and the most encouraging prospects were obtained. Then the stock panic swept over the country and operations almost entirely ceased; four companies withstood for a time the pressure, but eventually had to succumb with one exception—the Keystone Copper Mining Company, located at our neighboring camp of Cold Springs. This company have persevered against all obstacles, and pushed their prospect shaft to a depth of one hundred and eighty-five feet, until their enterprise has been crowned with success. It was in everybody's mouth on Saturday last—"have you heard the news?" "The Keystone has struck copper rich, full width of their shaft, over five feet," "good news," etc. Of course everybody was glad, and we are glad to be able to corroborate the good news that the Company has finally struck a vein of fine ore five feet in width. The mine is owned almost wholly in Santa Clara county, and by men of property as well as enterprise and pluck.

The effect of this strike is already creating a stir among the old locations, and in a few days work will again be resumed on many of the old shafts located on the same range.

Calaveras.—The San Andreas *Register* says that Messrs. Tubbs & Co. completed their mill and commenced to crush the rock from their lead last week. It learns that everything works well, and that they cleaned up after two or three days' run, and found that the rock pays them $25 per ton, and that, too, without using the steaming process, but simply the common method of crushing. This settles the question as to there being good paying quartz in that section.

The owners in a claim near by Tubbs & Co., called the Bay State, are about to resume work, and make a thorough prospect of the rock. It is believed to be a rich claim. Messrs. McGlynn and Eveuson are sinking on their lead, situated about a half mile from town, are taking out rock which is very heavy with mineral of some kind. The rock is full of sulphurets, which are thought to be full of gold. The Scifford claim is being worked with good prospects. Mr. Wm. Irvine is pressing work forward on his claim at El Dorado Camp. He has taken out some as rich looking rock as we have seen in this section. Work is progressing on numerous other leads, and everybody who is willing to work is employed.

The *Chronicle* says that in the neighborhood of Whisky Slide several parties are at work on lodes that promise well. At Musquito Gulch, claims that have laid idle for years are being opened. In the vicinity of West Point, quartz mining has long been profitable, while above, at Blue Mountain, the silver lodes are looking far better than before.

Mariposa.—The *Free Press* says that some of the copper interests in the Hamilton district have changed hands during the past week. Haskell has sold his interest in the claim and smelting furnace owned in connection with Snediker, Henry & Co. J. D. Crippen, and Charles Peck are the purchasers, Haskell is erecting a new furnace, on what is known as the Buchanan lode. "Quartz Johnson" has also been skirmishing in that neighborhood and is reported to have slid into some very promising claims, by purchase or other negotiation.

Tulare.—Clear Creek, says the Visalia *Delta* is still progressing rapidly, both in mineral discoveries and in the way of machinery necessary to develop those discoveries. During the past week an engine and boiler for a quartz mill, of capacity sufficient for twenty stamps, passed through town. It is owned by Mr. Donahue, and other wealthy men in San Francisco, and is intended to work leads which they have purchased. By the last steamer, two other mills went out *via* Los Angeles. We learn by a letter from Mr. C. G. Manning, of Havilah, that the parties who recently purchased a part of Mr. Sumner's leads are erecting a mill to work them, while a Mr. Pepper is putting up a twenty stamp mill, one and a half miles from town, calculated to work sulphurets of gold, which have heretofore been wasted, thus effecting a very large saving.

In the Long Tom District, at last, we have machinery such as its merits have long since demanded. A mill for the use of Messrs. Roberts, the present owners of the lode, has just passed through town, and we venture the assertion that the Long Tom will prove one of the best leads in the State. The owners have proceeded with great caution, and have not incurred the expense of machinery until entirely satisfied that they had "a rich thing."

Two gold bars, weighing fifty ounces, and valued at eight hundred dollars, were brought down by Mr. Hamilton, of Kernville, on Saturday last; they were from the Summer mill, worked by Messrs. Staples, and assayed by Mr. Piedler, of Kernville.

The El Paso Mining District is again attracting attention. It is situated some little distance northeast from Clear Creek, and has some very rich leads, such as the Tucker, Millikin No. 1, 2, and others. That they are rich, is undoubted; as to whether the facilities for working are such as to render them profitable, we are unadvised, but suppose the matter will soon be tested.

The *Delta* thinks there is not in the State such an opening for capital for mining purposes, as in Tulare county, at this time. No long continued and costly drifting, blasting, sinking of shafts, etc., is necessary. The moment the mill is erected and in running order, hundreds of tons of rich rock, paying even from the surface, are ready.

The latest information from these diggings states that seven mills are now on the way and in process of erection. The mill erected by Mr. J. H. Thomas, and now in charge of Mr. Stevens, worked, last week, several tons of refuse rock from the Bamboo lode—rock which had been thrown out as worthless, and the result was sixty-three dollars per ton!! Oh, no! there's no gold at Clear Creek! it's all in Nevada! We learn from Supervisor Jordan that two mills are also going up at Agua Caliente, which is near the northern extremity of Walker's Basin, and only some six or seven miles from Clear Creek.

VIRGINIA CITY AND VICINITY.

We have nothing of special interest this week from Virginia City or Gold Hill. The *Enterprise* says that ore of an excellent quality (argentiferous galena), continues to be brought in from the New Truckee district. The ore contains from $100 to $250 in silver; but no furnaces have yet been constructed which are properly calculated for a thorough and economical working of these ores. The discovery of a very rich silver vein is reported as having been recently found by a Mexican in Dog Valley, on the Henness Pass route over the Sierra Nevada mountains. The lead is narrow, but appears to be fast widening. The ore is of a soft black sulphuret, which crumbles readily in the fingers. Good judges of silver ore say that it will work $600 per ton. This is quite good enough.

An important sale is reported, to the effect that the Imperial Silver Mining company have purchased of Messrs. Lindauer & Hirschman their quartz mill and water-rights on the Carson river, at Dayton. This purchase was made on very favorable terms, and will not interfere with the regular dividends of the company, while it disposes of the litigation pending between the parties.

OWEN'S RIVER.

There is very little news from the mines of Owen's River, of special interest. In the Kearsarge District the company of the same name are prosecuting their labors with very cheering prospects. This is the only company doing any work, the others preferring to wait and avail themselves of whatever facts the Kearsarge company may develop. The new mines about "Hot Springs," about fifty miles from Aurora, are attracting the most attention. One poor affair of a mill, run by *hot* water, and with only four stamps, is clearing over one hundred dollars per day to its owners (the Diana company), out of third grade ore. All the mines in that vicinity certainly look very promising. There is quite a movement from Aurora and Montgomery district to the scene of the new discoveries, and new buildings are going up rapidly.

HUMBOLDT.

In speaking of the present condition and future prospects of the Humboldt, the *Register* says: "To the eye of faith, through which we have lived when the vulgar substantials were short, the prospect for the county is very good. There is no bustle and hum, and blatant sound of rushing business; but industrious men can see something to do in almost every line of industry. Good ledges are opening, and the mills are turning the rock into bullion. We hope, let us say in passing, that persons making shipments of bullion will notify us of the figures. More bullion is going now, to San Francisco, than ever before from this county. And, the machinery for producing bullion is continually multiplying."

We condense the following from the *Register*: Webber & Co., have made a contract with the Montezuma company, of Arabia, for a supply of ore for the smelting furnaces now building. The company is to deliver 2,000 tons of ore, which Webber & Co. are to smelt and cupel, making return of fine silver, at a cost of $50 per ton (of ore) to the company. The ore assays $212 to the ton. Messrs. Webber & Co., claim that smelting is the only true process of extracting the silver from the ore. [Such ores as that taken from the Montezuma, we presume.]

Stephenson's mill is now running, and works finely. Three more of Wheeler's pans have been ordered, to render the amalgamation machinery of equal capacity with the crushing power.

Nothing has been done in the San Jacinto district the past Summer. The *Register* says that the numerous excellent ledges in that district are mostly held by migratory prospectors, who have forgotten to come this season from California and attend to developing the ledges they had located; and adds that parties from that neighborhood are going into the district with the view of re-locating them.

In the Sacramento district things are looking well, and much confidence is felt in the substantial character of the ledges there. Montana rock has been sent to the Ætna mill, which yields $75 per ton, large quantities of which can be taken out. A large amount of the rock has been worked and the bullion forwarded to Virginia City. The Bigler company have run a tunnel some distance on their ledge, but work has now been stopped.

The Daniel Webster was located two years ago, and work has continued almost without interruption since the Spring of 1864. The Company has a contract out for a length of tunnel calculated to tap the ledge, at a depth of 250 feet. Work under this contract continues night and day, and it is expected they will be to the ledge about the 1st of February.

THE ARIZONA MINES.

Late mining reports from Arizona are very encouraging. We learn from the Arizona *Miner* that the Josephine lode, in Walnut Grove district, is turning out very well. The owners have sunk several shafts, and the rock is better the further they go. After running

fifteen hundred pounds of rock through an arastra, $150 were taken up—a good yield.

The two stamp mill of the Messrs. Bowers, on the Accidental mine is now ready for operation. Most of the owners in the original location have consolidated their claims, and will work together. The owners of the mill are known to be go-ahead men, and will certainly start it with all possible haste. In the last clean up from the arastras it yielded over one hundred dollars to the ton of rock.

Messrs. Tyson & Co., have completed the erection of their mill at Wickenburg, to work the Vulture mine, and it was to have commenced running on the 26th of September. A large quantity of rock has been taken to the mill, which, with the tailings from the arastras, will supply material for some time. Rich results are anticipated from this enterprise. Messrs. Curtin, Chase & Co., are making good progress in erecting their works, and expect to be crushing rock by the 1st of November. Col. Woolsey expects that his mill, which is run by water power, will be completed early in November. This mill is located in the centre of a net-work of lodes. Probably so many ledges, presenting such rich surface indications, were never before discovered in the same extent of country. Wherever shafts were sunk the lodes increase in width and richness, while new discoveries are made almost daily. The location of Vickroy & Co.'s mill is not yet determined. The din of its twenty stamps will soon however, be heard somewhere. Contracts have been let to sink shafts and take out ore from the Voucher and the Orion, two gold ledges, and from the United States, which assays richly in silver.

The Los Angeles *News* of a late date says that Mr. Goldwater of that city recently brought 270 ounces of gold dust from La Paz, which was taken out of the mines of that vicinity. It is but a short time since that Mr. Goldwater conveyed to San Francisco four hundred ounces of the precious dust, taken from the mines in the same locality. The mines of Arizona are "giving out," truly. Some of this gold is worth $17 50 per ounce.

NO SPECIAL CAUSE FOR ALARM.

It may be interesting to those persons who are wishing to leave San Francisco on account of earthquakes, many of whom desire to go to the Western States, to be reminded that on the 17th of August last, an earthquake shock was felt there which extended over all that portion of the Mississippi Valley, from the upper portion of Illinois to the lower portion of the State of Mississippi, embracing within its sweep portions of at least eight States, a space of territory much greater than that covered by the shock experienced here on the 8th instant. The centre of disturbance appeared to be near Memphis, Tennessee, where it produced quite a panic among the people, who rushed out of their houses in the utmost state of alarm. There, as in San Francisco, chimneys were thrown down and small articles upset; and we presume if there had been any shaky brick buildings in that region, their walls would have cracked and toppled just as the same class of buildings did here three weeks since. The water in the Mississippi, at Memphis and New Madrid, was so disturbed that the river was reverted for a brief space of time. This, it will be recollected, is the precise locality where the terrible earthquake occurred in 1811, a vivid description of which we gave last week, condensed from a paper recently published by the Smithsonian Institute. We have no record of any earthquake in California which equalled that in severity. There are but few places on the globe which are free from earthquake visitations. New England and the Middle States may be as free as any; but there is much less to fear from either San Francisco or Missouri earthquakes than there is from the lightning tempests of the Eastern States. The latter calls annually for many human victims; the casualties of the former have thus far been confined to property alone. There is danger everywhere, quite sufficient to warn us to be prepared at all times to meet the dread messenger, come when, how, or where he may.

Mechanical.

LUBRICATING RAILROAD CAR JOURNALS WITH WATER.

One of the most important problems which have recently engaged the attention of railroad engineers, is that which relates to improvements in the construction of the journal boxes for cars and engines, and the material employed for lubrication. This inquiry is of great practical interest to railroad companies themselves, from the fact that it involves an important item of economy in wear and tear, and cost of lubricating material; and is equally important to the traveling community, by reason of its involving one of the chief items in the matter of security from accidents. The cost of repairs of axles and boxes, added to that of the lubricating material employed, is quite a heavy sum in the running expenses of a railroad.

The skill of our mechanics has brought the construction of car wheel-boxes so near to the point of perfection, that but little hope is entertained of any further improvement in that direction; hence, inquiry has of late been turned to devising improvements in the lubricating material itself. Various unctuous compounds have been devised, but great deficiency is found to exist in the alterability or disposition on the part of any material of an oily or greasy nature to run into chemical changes, whereby it becomes more or less unfit for lubricating purposes. Under these circumstances, Messrs. Aerts & Bros., of England, have devised a box for the employment of water, or a lubricating medium, which has been put into operation on the Eastern Counties Railway in England, and on a Belgian railway, which terminates at Moerdyk, in Holland.

The result of the English trial is, that after the distance of a 11,249 miles had been run with the improved water boxes, in connection with the most approved oil apparatus, it was found that the difference in the wear and tear of axles and boxes was 77 per cent. in favor of Aert's water lubricated journal over those lubricated by grease. It is remarked that "during the trial each common box consumed eight pounds of grease, while Aert's box consumed hardly any." It should be remarked that the journal and interior of the box is thinly coated with grease.

The experiment on the Belgian railway is also pronounced a success; although the particular reference to that in the article before us is to prove the practicability of the employment of water even with the thermometer far below the freezing point. It is found in practice that ice around the journal presents less hindrance than a frozen mixture of metalic dirt and grease, or the pure congealed oil itself, for the reason that the adhesion of the ice is very slight, and when once broken, the ice itself forms a most perfect lubricator, much superior to the congealed oil; it is, moreover, much sooner reduced to a fluid state by the friction caused by the motion of the journals than the congealed oily mixture. The boxes are so constructed that there is only a very thin layer of water around the journal, which, when the cars stop in a temperature of extreme coldness, is soon converted into a glazing or varnish, which offers no perceptible hindrance to starting. We are not informed how the reservoir of water is kept from freezing, but are led to infer that it is so kept from the general success of the experiment.

The box is somewhat more complicated than the ordinary oil boxes, and costs a trifle more, but requires less attention, and soon pays for the extra cost in the economy of the lubricating material.

It is claimed by the the inventors that an extensive practical experience has enabled them to offer to the public a car wheel-box that leaves little or nothing to desire in the way of improvement, while it fulfills all the essential conditions of a perfect lubricator.

Water, under certain circumstances, has long been employed as a lubricator, and its merits fully acknowledged and appreciated. Its well known property of being neutral and unalterable, added to its cheapness and cleanliness, render its use a most desirable object. With it there is no thickening or gumming, by which much power is lost in the use of other lubricators. When to all other advantages we add the fact already set forth, that the wear and tear of journals and boxes is greatly reduced by its employment, we see no reason why it may not be generally introduced upon our railroads. We have seen no particular description of the mechanical construction of the boxes employed; but the success of water lubrication for rolling stock on railroads certainly appears to be fully endorsed by English and German engineers, whose attention has been called to its use; and if upon railroads, why not upon heavy stationary machinery as well?

THE ANNULAR DIAMOND DRILL.

This novel invention, to which we have several times alluded, is well spoken of by engineers at the East. It was lately on exhibition in Green street, New York, where it attracted much attention. It is thought by many that it will work a revolution in heavy drilling and boring operations. Although to the inexperienced eye, the annular drill, with its tiny diamond points, does not appear to be very well suited to work its way into the hard, rocky material of the earth's crust, still it is said, by those who have seen it work, that it is really far more effective than the hardest steel, driven by the sturdiest blows of sledge or hammer. It should be recollected that it works on the principle of an annular saw, boring a narrow channel around a core, which is subsequently broken off, and raised by the aid of suitable tools. An examination of these extracted cores, thus cut out of the hardest granites or slates, is said to be quite sufficient to satisfy even the most incredulous of its potent and most thorough effectiveness. It is said to work with the utmost precision, as well as with most extraordinary rapidity. One important advantage derived from its use, in addition to its effectiveness, is the fact that by enabling the borer to bring up consecutive sections of the solid rock through which he passes, a much more accurate determination can be made of the character of the same, including even its stratification. The proprietors of this invention are said to be actively employed at the present time in prospecting suitable frame work and other devices by which it may be successfully introduced, not only into well boring, but for horizontal working also in tunnels, drifts, etc. Should all that is claimed for it be found true in practice, the annular diamond drill will prove of such great utility as to insure its very general use for boring or drilling purposes.

An Invention.—H. R. Leonard, says the Sacramento *Bee*, has just finished the pattern of railroad car wheels and axles, embodying a principle which he claims to be new and important. The patent right has been applied for. This new arrangement is expected, when applied to railroad trains, to do away with all friction in making curves. All slipping would be avoided, and one wheel will accomodate itself to the speed of the others. The shaft or axle is cut in two in the center of its length. There is then put on a sleeve or cylindrical tube, three feet long, equally over the joint in the axle. One end of the sleeve is "shrunk" on to the axle. Stationary at the end of the sleeve and stationary on the other part of the axle is a stationary collar, over which a coupling is screwed, holding the two half shafts or axles together. Railroad engineers think the invention a valuable one, and that it will answer the purpose intended. In a short time tracks will be arranged for the purpose of exhibiting what the invention can do.

Important to Inventors.—In the patent case of Marcy vs. Protter, an appealed case before the United States Supreme Court, the Judge, in his decision, says: "The policy of the patent laws favors diligence and condemns neglect. It is the duty of an inventor, without delay, to patent his perfected invention. He has no right to use it himself, or permit others to use it, for any length of time, and then expect a monopoly from the public."

Preservation of Wood by Charring.—The superficial carbonization or charring of wood, as a preservative means, has long been practiced on a small scale, the *rationale* of the process being the formation of an indestructible skin of carbon, which is, moreover, impregnated with the empyreumatic oils and creosote, produced by the carbonization of the outer lay of wood. About two years ago M. Lapparent proposed to apply it to the timber used in the French navy. Some experiments which were undertaken with the view to determine its practicability have terminated, according to the *Reader*, very satisfactorily; and the Minister of Marine has ordered the process to be introduced into the Imperial dockyards. M. Lapparent makes use of a glass blow-pipe, the flame from which is allowed to play upon every part of the piece of timber in succession. By this means the degree of torrefaction may be regulated at will. The method is applicable to wood-work of all kinds, and the charring, it is said, does not destroy the sharpness of any mouldings with which wood may be ornamented.

Valuable Discoveries.—Two French discoveries of merit have been reported lately. One, which is authentic, enables copper smelters to utilize their pestiferous smoke so perfectly that Mr. Vivian, head of the greatest firm in Swansea, says he shall be able to turn out one thousand tons of sulphuric acid per week, restoring incidentally many thousand acres of land for cultivation. The other, which is less authentic, is a new mode of tanning in turpentine, said to be so rapid that twelve hours will tan a skin at half the former cost.

A New Ladder.—An interesting trial was made lately in the European city of Milan, with what the inventor calls an "air ladder." It consists of several pieces, which, a sort of carriage as a basis, can be fixed one on the top of another. A height of 90 feet was thus reached in a very few minutes. The apparatus may be beat down to an angle of 45, and is capable of carrying heavy weights. The principle, it is stated, can be adapted to portable bridges, which can be put together in an equally short time.

The Cholera.—Considerable apprehension is felt at the East lest the cholera, which is making fearful havoc in many localities in Europe, should cross the ocean in the spring, and bring death and destruction once more into the midst of our Atlantic cities. It has already made its appearance in England. Very little fears of such a visitation, however, need be felt in any well regulated and cleanly kept city, and the strong, pure sea breezes which so constantly sweep over San Francisco, with the most ordinary precautions of cleanliness, will prove an effectual check against its appearance here. We may have an earthquake now and then; but need entertain no fear of the cholera. San Francisco earthquakes have never been known to kill any one; while the cholera demands its victims by hundreds, if not thousands, when it gains a foothold in a great city. Earthquakes, then, are preferable to the cholera.

Navigation of Eel River.—It appears that measures are being taken to open regular communication between Eel River, Humboldt county, and this city. The Eel River Navigation Company has been organized for this purpose, with a capital stock of $37,500. This stock has, doubtless, been taken with reference to the future importance of the oil interests of that region.

One locomotive belonging to the Sacramento Valley Railroad Company, is now running one hundred and sixty-four miles every twenty-four hours, and another, over one hundred and twenty miles, over the Sacramento Valley and Placerville road, propelling freight.

The Fair Medals.—We are requested to state that the medals awarded by the Executive Committee of the late Fair of the Mechanics' Institute, are now ready for distribution. Apply at the rooms of the Institute, between Montgomery and Kearny streets.

At the Waverly gold mines near Halifax, Nova Scotia, 1,200 ounces per month of the precious metal is taken out, yielding the proprietors a profit of over $1,200.

A correspondent of the Dundee *Advertiser* says that a petroleum spring has been discovered at Blairgowrie (Scotland).

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

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American and Foreign Patents.—Letters Patent for inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the credit system.

San Francisco:
Saturday Morning, Oct. 28, 1865.

STEAM-BOILER EXPLOSIONS.

The late terrible steamboat accident on the Sacramento river, has caused much earnest thought and greatly stimulated inquiry into the probable cause of certain classes of steam-boiler explosions, which, by almost universal consent, are referred to other than the usual causes of neglect in the management, or imperfection in the material or manufacture. In view of the tens of thousands of lives that are constantly in jeopardy, from the subtle, yet terrible force of confined steam, it is certainly a matter of no little astonishment that so little has been done, experimentally, to learn the true nature and condition of steam under the numerous extraordinary conditions in which it is liable to be placed in the countless localities and circumstances in and under which it is employed in the various uses of civilization. The internal pressure required to rend a steam boiler may be very closely calculated for any given size of boiler, or thickness of plates, and every engineer has constantly at hand the means of ascertaining almost precisely the amount of pressure he may have upon his boiler; yet it often happens that when all the known conditions of safety are fully complied with, the most terrible and destructive explosions occur.

There are quite well authenticated cases of explosions which have occurred when, but a moment before, the water guages have indicated an ample supply of water, and the steam guages have assured the engineer that his degree of steam pressure is far within the limits of mathematical safety, under any known and well understood condition of steam. These facts appear to be so well authenticated as to fully justify the assumption of some violent internal action, which must take place at the instant preceding the actual rupture of the boiler—the rupture being regarded as the consequence of such action, and not the result of mere statical pressure. In hypotheses of this kind various causes have been assigned for the effects produced, among which are—

1st. A sudden production of steam from some cause or other not dependent upon the regular induction of heat from the furnaces.

2d. Decomposition of steam and subsequent detonation of hydrogen, in the presence of oxygen, or otherwise.

3d. The spheroidal condition of the water in the boiler.

4th. Electrical action.

Without committing ourselves to the acceptance or rejection of any one or more of the above hypotheses, we propose to consider, in future numbers, the probabilities or otherwise the of various explanations which have been given by prominent writers on these matters, and to lay before our readers whatever of especial interest upon this subject, or interesting and important to mechanics and the public generally, we may be able to glean from authorities at our command. Engineers, everywhere, and learned men as well, are much more ignorant upon these things than they should be. Experimental science has, within a few years past, brought some things to light, the practical value of which, or the exteut to which they may actually come into operation, is not yet fully known. It is well, however, that engineers should be in possession of all that *is* known, to the end that they may exercise more care to avoid the possibility of such casualties as have so frequently, of late, spread mourning and dismay over communities.

CITY TEACHERS' INSTITUTE.

We had the pleasure of attending the monthly meeting of this body on Thursday evening. Under the new rule of the Board, the Principals of the various Grammar Schools take charge of the Institute in turn. This being the first meeting under the new order of things, Mr. Marks, of the Spring Valley School, appointed by the Superintendent for the occasion, set out with a determination to make the meeting one of interest; and that he succeeded, the frequent and hearty applause of the large audience abundantly testified.

Mr. M. opened the exercises by stating that as he believed in and loved his vocation, he had determined to make the exercises of the evening "disgustingly practical," and to carry out this portion of the programme, after a song by the Institute, he called upon Mr. A. B. Andrews, teacher of writing in the public schools, who proceeded to give some interesting and eminently practical hints in regard to teaching his favorite art. This was followed by a song from the "Twelve," and a very fine essay by Mrs. Griffiths, of the Union School, the highly popular "Occasia Owen" of the *Golden Era* in which, though on the rather unpromising subject of primary teaching, she fully sustained her high literary reputation. This was followed by a song from Mrs. Marriner, which was received with rapturous applause, after which the Rev. J. D. Strong made some very stirring remarks on patriotism in the schools, followed by another song by the "Twelve," select readings by Miss Hitchinge, and the recitation by Mr. Burnell, Principal of the Latin School, of the celebrated soliloquy on death, from "Hamlet," when, after a few remarks from Superintendent Pelton, congratulating Mr. Marks and the Institute on the successful character of the exercises of the evening—the meeting adjourned. Such meetings as this fill a place in our social life which has long been vacant. The teachers have been left to the society of themselves and the children, until it has seemed in some cases that they had lost their place in the social economy and belonged to a different race; but through the influence of such meetings as this, together with their increased salaries and abridged hours of labor, they are fast beginning to take their proper place in the social scale. We believe it is principally owing to Teachers' Institutes that the social position and influence of the teachers of San Francisco, are higher and more extensive than those of the Public School teachers in almost any other city in the world.

COMMERCE WITH THE SOUTH.—According to the New York *Express*, there are *three times* as many steamers running between that port and Southern ports as could he counted before the rebellion. The commercial journals contain advertisements of steam lines connecting New York with almost every important Southern port. There is also a great revival of steam communication between New York and foreign ports.

THE CHOLERA.—It is estimated that upwards of 50,000 lives had been lost in Constantinople at last accounts from that city. The daily mortality was variously estimated at from 1,500 to 2,500, and according to newspaper reports, the stench from imperfectly buried corpses was almost intolerable.

INTERESTING FROM THE COLORADO.

We have just been placed in possession of some very interesting intelligence from El Dorado Cañon, in the Colorado, by our attentive correspondent Mr. Frank S. Alling, who arrived in this city on the Senator on Saturday last. Notwithstanding the great delays and inconvenience to that locality growing out of the hitherto unreliable and irregular character of transportation from this city, the miners there are hopeful and perfectly confident of the future. The Colorado mill is now busy at work upon Queen city ore. The results of the crushing is kept private; but our informant, who resides near the mill, has seen the result of several cleanings up, from which he is satisfied that the ore is paying remarkably well, and the amalgam taken out is as fine as is ever met with anywhere. It contains a large percentage of gold. The New Era mill, is also about ready to start up again on Techatticup ore.

NEW AND RICH DISCOVERIES REPORTED.

Just previous to the departure of Mr. Alling parties arrived from Callville, a settlement on the Colorado, about thirty-five miles above El Dorado Cañon, who reported that letters had been received at Callville stating that some extraordinary silver discoveries had recently been made on Mud Creek, a small stream emptying into the Rio Virgin, about four days travel north of El Dorado Cañon. The veins are reported to be of extraordinary richness, similar in character to the rich mines of Batopolis, in northern Mexico, and like them carrying large quantities of native silver.

These mines, it is supposed, are the same as those reported by a company of miners who, having lost their way about a year and a half ago, in that region, discovered some very rich silver veins; but could never find them afterwards. The present discoverers are probably some Mormons, from the Muddy settlement, a Mormon town some distance to the south. Quite a number of miners from Arizona have also now gone in and secured some fine locations. The letters referred to as being received at Callville, are from some of these Arizonians asking their friends to come up immediately. A company was made up at once at Callville, and several agents sent out.

The first intelligence of this discovery is reported to have been sent to Salt Lake and it is said that a large amount of money with machinery for a mill, has gone from thence to these new mines. These reports were causing much excitement at El Dorado Cañon when our informant left. The locality is very near the dividing line between Utah and Arizona; the Mormons claim that it is in Utah, while the Arizonians are of the opinion that it belongs to their territory.

IMPORTANT TO NON-RESIDENT MINE-HOLDERS IN EL DORADO CANON.

Mr. Alling informs us that there are a large number of valuable mines scattered through El Dorado Cañon, and owned by non residents, which are being neglected, and most of which have been forfeited by the laws of the district. On many of these claims short tunnels have been run, shanties put up, and mining tools of various descriptions, such as picks, shovels, blacksmith tools, drills, steel, powder, etc., left on the premises, with no one to look after them. The Indians have of late been prowling about there, and have stolen such of the powder as they could readily find, stripped the cloth from many of the shanties, cut the leather from the bellows, to make into moccasins; and probably some white men may have appropriated such tools as they needed to work with. To say nothing of the bad policy of putting powder in the way of Indians, which they may, and doubtless will use to shoot white men with, we should suppose that parties interested (and they are mostly residents of this city) would take some measures to preserve their property and look after their mining interests. The resident miners of the cañon have recently determined that the laws of the district shall be enforced, and that non-residents, who own the most of the valuable claims, shall not be allowed much longer to hold them to the prejudice of the district. It is for the interest of all parties that they should be worked. Some have already been re-located, and others soon will be, unless prompt measures are taken to comply with the rules for holding them. The resident miners have resolved to stand by one another in carrying out these measures, and we have been requested to give this "fair warning" to all outsiders interested, that they may govern themselves accordingly. There can be no doubt of the ultimate value of these mines. It is said that fully six-sevenths of the mines in the cañon are in the position of abandonment above described.

REGULAR COMMUNICATION TO BE ESTABLISHED AT ONCE.

Recent developments have so fully satisfied capitalists in this city of the value of the mines of that region, and its future commercial importance, that Captain Trueworthy, who is now here superintending operations, has finally succeeded in the complete organization of a transportation company, with all the capital that may be needed to put on a line of sailing vessels to connect with the steamers on the Colorado, that shall be sufficient to meet the fullest demands of the commerce of that river, as fast as it shall be developed. The company will be known as the "Pacific and Colorado Steam Navigation Company." They own the Esmeralda, which is now on the river at Fort Yuma, and have quite recently bought the Nina Tilden, now at the mouth of the Colorado, awaiting the arrival of the schooner Toando, which has just left this city with a full freight. The Toando, will soon be followed by another sailing vessel for the same destination. The company have four barges on the river, which, with the steamers, are calculated to go up as high as Callville, and will land passengers and freight at any point between that place and the mouth of the river. This company has been organized with especial reference to accommodating the mining public, and parties forwarding merchandise and machinery can depend upon its direct and regular transit. Capt. Trueworthy is deserving of much credit for the enterprise and energy he has displayed in establishing this company, under circumstances of most peculir discouragement. Parties in this city interested in mines in the cañon, will do well to take early steps for securing their interests against any possibility of interference from jumpers. The opening of permanent navigation will give an immediate value to their claims, and should operate as a further inducement to their prompt development.

SAN MATEO INSTITUTE.—We have received the annual circular and catalogue of the San Mateo Institute, presented in a neat little pamphlet of sixteen pages, from the press of Dewey, Waters & Co. The object of this Institute is to afford young ladies the opportunity of acquiring a practical as well as an accomplished education. The arrangement of both the literary and domestic department is such as to combine all the advantages of a home education with those of a well-appointed academic Institute. The location has been most happily chosen, just far enough removed from the city to be beyond any improper metropolitan influence, and yet within easy reach for parents and friends—a locality noted for its pleasant scenery and delightful climate, and directly on the line of the San Jose and San Francisco railroad. We notice in its "Register of Pupils" young ladies from almost every portion of the State. The Institute is under the immediate charge of Miss L. A. Buckmaster, as principal, assisted by a large and able corps of assistants in the various departments.

THE *Pacific* very significantly remarks that scores will nightly sleep upon our steamers without apprehension, while hundreds in the city will be wakeful, for fear of earthquakes. Yet earthquakes have not destroyed a life in years, while steamers have killed their hundreds within a score of months.

DECOMPOSED quartz that will yield $500 per ton has been found near White Peak, in Sacramento county, says the Folsom *Telegraph*.

THE REPORT OF THE STATE GEOLOGICAL SURVEY.—One hundred copies of the first volume of the printed reports of the State Geological Survey were received by the Colorado, the past week—price, $3.50 in cloth, or $6.50 in half-Turkey morocco, with gilt top. The volume consists of 240 pages of text, with 32 plates on steel and stone. It is entirely devoted to the palæontology of the State—the fossil remains of the animals who have formerly lived, died, and become extinct during the great convulsions of nature which, in early geological periods overturned the original horizontal strata which probably then existed throughout this region, and left it, with its strata, tilted, contorted, and overthrown, presenting the contour and topography of what is now known as California. To the scientist this volume will possess a most unusual degree of interest, and will probably be sought after with much avidity in Europe, as the first authentic index of the character and age of the California rocks. The second volume, which will contain a portion of the geological work of the survey, has also been printed, and will be brought out by Professor Whitney himself, who is expected to arrive about the first of December. This volume will, doubtless, be of much more interest to the general reader than its predecessor, and, in fact, the most interesting of the series.

Mr. Gabb, the palæontologist of the survey, has made all the drawings and written the description of the cretaceous and triassic fossils; F. B. Meek described the carboniferous and jurassic fossils, which Professor Whitney, as the head of the Survey, has had a general oversight and supervision of the whole work. The other volumes cannot be published until further appropriations have been made by the Legislature for that purpose.

YUBA COUNTY GOLD.—Yesterday, Messrs. Knight & Co., assayed gold to the amount of $8,305, the product of ten days run of the mill of the Jefferson Company, at Brown's Valley. *Marysville Express, October 25th.*

THE Copperopolis *Courier* estimates that next year the copper mines of that county will produce 20,000 tons of shipping ore per month.

San Francisco Stock and Exchange Board.

SAN FRANCISCO, October 21st, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ —	$ 74
Gov. Legal Tender Notes	70½	70¾
State Bonds, 7 ₱ cent	86	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	70	..
San Francisco Bonds, 1858, 6 ₱ cent	65	..
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	60	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	77½
Butte County Bonds, 10 ₱ cent	..	80
California Navigation Co	76	76
State Telegraph Stock	25	..
San Francisco Gas Co	99	..
Sacramento Gas Co	..	75
Spring Valley Water Co	50	50½
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	..	..
Central Railroad Co	..	..
North Beach and Mission	45	47
MINING STOCKS.		
Ophir	$ 390	$ 395
Gould & Curry	1015	1050
Empire M. & M. Co	..	..
Sierra Buttes Quartz Co	..	..
Central	..	..
California	..	..
Savage	800	825
Chollar	390	395
Potosi	375	380
Hale & Norcross	330	350
White & Murphy	..	..
Sierra Nevada	12	13
Ducey	..	..
Burning Moscow	..	..
Lady Bryan	..	..
Sacramento & Meredith	..	..
Burnside	..	..
Iowa	..	..
El Dorado	..	..
North American	..	..
Baltimore American	..	..
Yellow Jacket	790	800
Overman	97	98
Cedar Hill Tunnel	..	..
Wide West	2	4
Crown Point	750	800
Antelope	..	..
Esmeralda	1	5
Ætna	..	..
Real del Monte	..	15
Silver Hill	..	..
Utah	..	..
Justis	..	..
Josephine	..	..
Mina Prieta	..	..
Napoleon Copper Co	..	..
Melones and Stanislaus	..	..
Sheba	..	..
De Soto	..	..
Pride of the West	..	..
Bullion, G. H	70	75
Buckeye	..	..
Dick Sides	..	..
Imperial	192	193
Alpha	1000	1100
Bajazett	..	..

IMPORTANT MINING ENTERPRISE.—The Shasta Courier says: That some time since we noticed that a company had been formed for the purpose of tunneling through a point on the Sacramento river, at Horseshoe Bend, by which they would drain some three miles of the water bed, supposed to be good mining ground. The tunnel is through and strikes the river seven feet below the surface of the water at its lowest stage, or five feet below the lowest part of the bed of the stream. It is eight feet wide at the bottom and six and a half feet high, and of capacity sufficient to carry more than three times the quantity of water now in the river. In two or three days more the tunnel will be completed in every particular, and the travel of the waters of the Sacramento shortened by at least three miles.

ADVENTUROUS TRAVELERS.—A party, composed of Count Thun and his servant, Major Prossig and Major Preiss, will leave this city next week in the Hamburg barque *Perle*, bound for Callao, whence they will start, overland, through Bolivia, and round or through Paraguay for Rio Janeiro, where they expect to arrive next spring. A large portion of their journey will be through country seldom visited by Europeans, and some of it entirely unexplored. All of them are travelers of experience and men willing to encounter the hardships, privations and dangers which such a trip implies.

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	80@	87
do pickled ₱ lb	65@	75
do Oregon	50@	60
do New York, ₱ lb	40@	50
Cheese, ₱ lb	25@	35
Honey, ₱ lb	30@	40
Eggs, ₱ doz	@	70
Lard, ₱ lb	33@	
Hams and Bacon, ₱ lb	28@	30
Cranberries, ₱ gal	75@	1 00
Potatoes, sweet, ₱ lb	2@	5
do Irish, ₱ lb	1@	2½
Tomatoes, ₱ lb	5@	8
Onions, ₱ lb	6@	—
Apples, No. 1, ₱ lb	4@	10
Pears, table ₱ lb	3@	10
Plums, dried, ₱ lb	15@	25
Peaches, dried, ₱ lb	15@	25
Grapes, ₱ lb	5@	15
Oranges, ₱ doz	75@	1 00
Lemons, ₱ doz	1 50@	2 00
Chickens, apiece	62@	1 00

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 50 @	7 00
Do Superfine	6 00 @	6 50
Corn Meal, ₱ 100 lb	3 50 @	4 00
Wheat, ₱ 100 lb	1 80 @	1 95
Oats, choice, ₱ 100 lb	1 35 @	1 50
Barley, ₱ 100 lb	90@	1 00
Beans, ₱ 100 lb	3 2½@	3 35
Potatoes, ₱ 100 lb	75@	1 12
Hay, ₱ ton	10 00 @	15 00
Live Oak Wood, ₱ cord	8 00 @	10 00
Beef, on foot, ₱ lb	6@	7
Beef, extra, dressed, ₱ lb	12½@	15
Sheep, on foot,	1 00 @	2 00
Hogs, on foot, ₱ lb	10 @	12
Hogs, dressed, ₱ lb	15 @	16
Groceries, Etc.		
Sugar, crushed, ₱ lb	16½@	17
Do China	10 @	12½
Coffee, Costa Rica, ₱ lb	27½ @	30
Do Rio	27½ @	
Tea, Japan, ₱ lb	85 @	95
Do Green	70 @	80
Hawaiian Rice, ₱ lb	10 @	12
China do	8 @	10
Coal Oil, ₱ gal	1 70 @	1 75
Candles, ₱ lb	25 @	27
Rauch Butter, ₱ lb	55 @	70
Isthmus do	40 @	42
Cheese, California, ₱ lb	20 @	26
Eggs, ₱ doz	60 @	65
Lard, ₱ lb	28 @	30
Ham and Bacon, ₱ lb	28 @	30
Shoulders	20 @	22
Soap—Pale & C. O	15 @	
Castile	16½@	17½

San Francisco Metal Market.

PRICES FOR INVOICES.

Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

SAN FRANCISCO, Oct. 7th, 1865.

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1½c ₱ lb; Sheet, polished, 3c ₱ lb, common, 1½@ 1¾c ₱ lb; Plate 1¼c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2½c ₱ lb.

Scotch and English Pig ₱ ton	36 @38
American Pig ₱ ton	35 @36
Refined Bar, bad assortment, ₱ lb	2¼@—
Refined Bar, good assortment, ₱ lb	3¼@—
Boiler No. 1 to 4	4 @ 4¼
Plate No. 5 to 9	4½@—
Sheet No. 10 to 13	4 @—
Sheet No. 14 to 20	5 @—
Sheet No. 24 to 27	6½@—

COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb.

Sheathing ₱ lb	30 @32
Sheathing, Old	25 @35
Sheathing, Yell	30 @32
Sheathing, Old Yell	12 @12
Bolts	— @—
Composition Nails	30 @32

TIN PLATES.—Duty: 2½c ₱ lb.

Plates, Charcoal, IX ₱ box	10 @12
Plates, I C Charcoal	9 @10½
Roofing Plates	9 @ 10
Banca Tin Slabs, ₱ lb	41 @42½
STEEL.—English Cast Steel, ₱ lb	12½@16
QUICKSILVER.—Per lb	— @65
For export	55 @—
ZINC.—Sheets ₱ lb	9½@10
LEAD.—Pig ₱ lb	7 @ 8
Sheet	10 @12
Pipe	10 @12
Bar	9½@10

Rates of Advertising

IN THE
MINING AND SCIENTIFIC PRESS.

Mining Advertisements.

Notices of Meetings, per square, one week	$1 00
Notices of Meetings, per square, four weeks	2 50
Assessment Notices, of ordinary length, four weeks	5 00
Assessment Notices, of more than usual length, for each additional square	2 50
Delinquent Sales, per square, two weeks	2 00
Delinquent Sales, per square, three weeks	2 50
Postponements, per square, one week	1 00
Slips of Advertisements, printed for meetings or assessments, per hundred	1 00
Advertising blanks and circulars	Free

Miscellaneous Advertisements.

One week, per square	$1 00
One month, per square	2 50
One quarter (3 months), per square	7 50
Advertisements of great length, or of special character, inserted by contract on the most favorable terms.	

☞ *Ten lines of solid advertising type constitutes a square.* ☜

Terms of Subscription.

THE MINING AND SCIENTIFIC PRESS is published every Saturday morning (containing sixteen pages—size of *Harper's Weekly*) at the following rates:

One copy, one year, by mail, in advance	$5 00
One copy, six months, by mail, in advance	3 00
One copy, one year, by express	6 50
One copy, six months, by express	3 50
Five copies, one year, by mail, in advance	20 00
By city carriers, per month	50
Single copies	12½
Monthly Series (or parts), containing 4 Nos	50
Monthly Series, containing 5 Nos	62½

THE CIRCULATION of the PRESS, already extensive, is rapidly increasing, and substantial men who can profit by widely disseminating information of their business amongst the most intelligent, influential and industrial classes of the Pacific States and Territories will find no more effectual or economical medium for advertising

DEWEY & CO., Proprietors,
Patent Agency and Job Printing Office, 505 Clay street, San Francisco. July 1 1865

Just and True Economy
IN MINING ADVERTISING.

The Proprietors of the MINING AND SCIENTIFIC PRESS would call the especial attention of MINING SECRETARIES, TRUSTEES and SHAREHOLDERS, to a few substantial reasons for the publication of Mining Notices in their journal—the first and only important newspaper of its class published upon this coast.

1st. The PRESS enjoys a large and permanent subscription list, having a more universal circulation among shareholders and men intimately connected with mining interests than any other publication.

2d. Under the present law the publication of all mining notices on Saturday, in a weekly journal, complies as fully with the statutes as a daily publication. It is generally found to be equally as convenient for secretaries, and decidedly preferable to stockholders who have not time to examine throughout every issue of a daily.

3d. Economy in mining should always be looked upon with favor, and the cost for weekly advertising in the PRESS is less by ONE HALF than the rates of any other journal in this city possessing a respectable circulation.

4th. The publishers of the PRESS, making the mining interest their especial care, take particular pains to assist in the avoidance of errors in advertising. Our print is also more clear and perfect than can be expected in such papers as are hurriedly issued from cylinder presses.

5th. Our "Shareholders' Directory" forms a complete index of all mining notices published in San Francisco, by reference to which shareholders can at once see if their company is advertised, and determine whether the same is inserted in the PRESS or some other paper.

6th. Many copies of the PRESS are bound by prominent professional men, mechanics, secretaries, brokers, shareholders and others, as an important record for future reference, thereby rendering advertising, of every class, in its columns, of peculiar and permanent value.

7th. The benefit of having all mining notices consolidated in one newspaper, for the common convenience of shareholders, secretaries, and others who have occasion to refer to the same, is obvious. With this view we have established our rates at only fair, living prices, believing that a journal like ours, untrammeled by party, creed, or prejudice, is the only medium which can reasonably ask for such a consolidation of mining patronage.

8th. Advertisements in the columns of the PRESS, after their first insertion, are arranged alphabetically. Our present list is equalled only in one instance by that of any other journal. Shareholders, as well as strangers, naturally turn their attention to a mining journal for information concerning the mines and mining matters.

LAST, BUT NOT LEAST.—Our sheet (having been recently enlarged to the size of Harpers' Weekly) is now only equalled in its dimensions by one mining paper in existence—the *London Mining Journal*. Published in this, the greatest mining field of the world, we desire that the PRESS shall have no superior. We can only realize our cherished object of building up a reliable advocate of the science and business of mining, which will be of just honor and profit to our community, by experience and liberal patronage. The bestowal of such favors only as naturally belong to us, and which it is clearly for the benefit of the mining fraternity to extend, is all that is requisite, and we are confident we shall receive it

DEWEY & CO.,
4v11 Office Mining and Scientific Press.

QUARTZ OPERATOR'S
HAND BOOK.

A Book for Every Intelligent Prospector, Shareholder, Miner and Machinist.

ZENAS WHEELER AND P. M. RANDALL,
Authors and Publishers.
BOUND IN CLOTH—144 PAGES, DUODECIMO.

THE QUARTZ OPERATOR'S HAND BOOK is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

The work also contains an original and highly interesting discussion of the tractory and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs W. R. Eckart, Jr., Eeginer, (late of U. S. N.,) and W. M. Belshaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on pa 415 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865.

Sold by booksellers generally. Price by mail, postage paid, $1.25. Address "Wheeler & Randall, at the Mining and Scientific Press Office, San Francisco." 2v11

New Volume
— OF THE —
Mining and Scientific Press

Issued every Saturday. Each number contains 16 pages and 64 columns (size of Harper's Weekly).

PUBLISHED BY
DEWEY & CO.,
Patent Agents, Publishers and Job Printers,
505 Clay Street, San Francisco.

THE ELEVENTH VOLUME

Of the MINING AND SCIENTIFIC PRESS commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this journal may be anticipated by its numerous and rapidly increasing readers.

We shall continue to devote a large space in our columns to the various and best methods of treating ores and saving gold and other precious metals in every form, furnishing valuable hints to millmen, prospectors, oil-workers and miners generally, not to be found in any other publication.

New machinery, latest inventions and discoveries, and all matters pertaining to the mechanical, manufacturing and industrial resources of the Pacific States, will receive careful attention.

Stock market reports will be published as received from the official records. Our carefully compiled "Mining Shareholders' Directory" will prove a faithful monitor to parties holding stock, and a desirable record for reference to brokers.

Friends pleased with our efforts in the publication of the PRESS can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and News-dealers, acting as our agents, will receive liberal commissions.

☞ BOUND VOLUMES FOR SALE. ☜

SUBSCRIPTION IN ADVANCE.

One Year, (two volumes)	$5.00
Six Months, (one volume)	3.00

FOR ADVERTISING

Our terms are very reasonable. MINING COMPANIES are especially favored by our rates, and careful attention is given to the legal publication of MINING NOTICES.

OFFICE—No. 505 Clay street, corner of Sansome.

DEWEY & CO., Publishers.

C. W. M. SMITH .....W. B. EWER .....A. T. DEWEY

Lost or Stolen.

There was lost, or stolen, from our collection of minerals, etc., at the Mechanics' Fair, a sample of the late Telegraph Cable. The lost piece is three inches in length, by one and one-sixteenth in diameter; brass ferrel on each end with raised letters, viz: "Glass, Elliott & Co., Contractors, London." Any person who will return the article to this office, or give information of its whereabouts, will be suitably rewarded.

DEWEY & CO.,
Publishers Mining and Scientific Press.

OUR NEW YORK AGENCY.

MR. GEO. M. NEWTON is our authorized agent in New York City, and will receive advertisements and subscriptions for the MINING AND SCIENTIFIC PRESS at regular rates. Sample copies of our weekly and monthly issues can be procured by calling upon him, at the office of the "STOCKHOLDER," No. 72 William street.

PHILADELPHIA AGENCY,

Parties wishing to subscribe or advertise in the MINING AND SCIENTIFIC PRESS can be accommodated by calling upon our Agent, MR. TURNER HAMILTON, at the Assembly Building, 106 South Tenth street, Philadelphia, Pa., where sample copies of our publications can always be found.

Traveling Agent.

MR. ROBERT LATTIMORE is now on a canvassing tour for the Press through Butte, Colusi, Tehama, Shasta, and Siskiyou counties, and we recommend him to the favorable consideration of our friends.

To Blacksmiths.

An excellent, strong lad, from the interior, 17 years of age, desires to learn the Blacksmith's trade. His parents wish him to engage with a reputable firm, and learn his business thoroughly. Address, or inquire at the office of the MINING AND SCIENTIFIC PRESS. 2v11tf

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

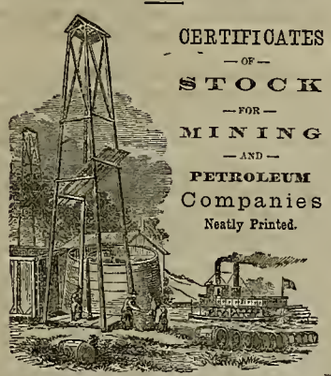
How to serve a Dog.—A correspondent says this is the way: "When attacked by a bloodhound or any other dog, raise your left arm and let him seize it; then instantly grasp his windpipe with your right hand, squeeze it with all your might; that will disable him in two seconds. He opens his mouth to gasp, loses all power, and falls helpless. If you wish to kill him, keep your hold for a minute or two—he is done. You are ready for another. One at a time is all you need. I speak from experience with big dogs."

Idaho Quartz.—The *Statesman* claims for the quartz mines of Idaho, that arsenic, antimony and sulphur are almost unknown, and that the simplest process answers for its treatment. Capitalists are becoming interested largely in the ledges about Idaho City.

Mining and Scientific Press

JOB PRINTING OFFICE,

No. 505 Clay street, corner of Sansome.



CERTIFICATES
—OF—
STOCK
—FOR—
MINING
—AND—
PETROLEUM
Companies
Neatly Printed.

Stock Certificates of all kinds embellished with wood cuts and electrotype engravings. We devote special attention to the execution of all kinds of work required by Mining Companies, Machinists and Manufacturers.

Metallurgy.

EUROPEAN
METALLURGICAL WORKS,
—AND—
Practical Mining School,
Bryant Street, Between Third and Fourth,
SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. Kimball, J. R. Murphy.
10v10

BOALT & STETEFELDT,
Metallurgists and Mining Engineers
AUSTIN, NEVADA.
Western Branch of ADELBERG & RAYMOND, No. 90 Broadway, New York. IIv11

FIRST PREMIUM
FOR REFINING COAL OIL,
At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,
17v10 643 Third Street, bet. Brannan and Townsend.

NEW DISCOVERY
FOR DESULPHURIZING AND DECOMPOSING
METALLIFEROUS ORES,
—SUCH AS—
Auriferous Sulphurets, Arsenites or Antimonial Telluric, Gold and Silver Ores.

By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by

DANIEL ROSS,

Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me.

EDWARD ARNOLD.
Inventor and Patentee.

Monitor, Alpine county, Cal.

W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2vII

Professional Cards.

Our Patent Agency.

The Patent Agency of the Mining and Scientific Press has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of Letters Patent from the United States and foreign Governments cannot be over-rated, and the Proprietors of the Press, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

WM. L. DUNCAN,
Stock Broker,
Member of the San Francisco Stock and Exchange Board,
No. 605 Montgomery Street, San Francisco

Mining Shares and Legal Tender Notes bought and sold strictly on commission. Liberal cash advances made on stocks consigned for sale. 1v11-3m

S. C. BUGBEE & SON,
ARCHITECTS.
DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.
74 and 75 Montgomery Block
SAN FRANCISCO. 25v10-3m

FREDERICK MANSELL.
Mechanical & Architectural Draughtsman,
No. 422 California street, corner of Leidsdorff.

Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

JAMES M. TAYLOR,
Attorney and Counsellor at Law,
COURT COMMISSIONER, appointed by the Fourth District Court, COMMISSIONER OF DEEDS for Nevada and Massachusetts,
Court Block, San Francisco.
Entrances opposite City Hall, Merchant street, and 636 Clay street. 14v11tf

DR. H. AUSTIN,

DENTIST,

No. 634 Washington Street,
Between Montgomery and Kearny Streets
[OVER SAN FRANCISCO BATHS]
SAN FRANCISCO. 20v10-qy

TEETH

☞ Extracting Without Pain. ☜
Drs. Whitcomb & Dyer,
DENTISTS,
[Successors to W. H. Irwin.]
No. 205 Third Street, near Howard,
v9 SAN FRANCISCO.

N. LOMBARD INGOLS,
Accountant and General Factor,
No. 32 Montgomery Block.
Address, Box 2128, Postoffice, San Francisco. 9v10

OLNEY & CO.,
Real Estate, Stock, and General
Auction & Commission House.
No. 626 Montgomery Street, Montgomery Block.
JAMES N. OLNEY—Auctioneer.

Secretaries of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

AUGUST KUNAST,
Stock Broker,
Member of the
San Francisco Stock and Exchange Board,
Buys and Sells Stocks, Bonds, Etc.
Office, No. 540 Washington Street, San Francisco. 2v10

G. F. DEETKEN,
Mining Engineer and Metallurgist,
Address - - - - - San Francisco. 25v9

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for the State of Nevada and the Territory of Arizona,
AND FOR THE
STATES OF MASSACHUSETTS AND MAINE.
Office, Montgomery Block, 626 Montgomery Street,
10v8-2m SAN FRANCISCO.

GEORGE H. BAKER,
Lithographer & Engraver,
No. 522 Montgomery St., San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

SHERMAN DAY,
Mining Engineer,
No. 56 Montgomery Block, San Francisco,
Will examine, survey and report upon mines, and consult and advise concerning investments in mining property, or the machinery management and expenditures of mines. 22q*

Trades and Manufactures.

Pacific Glass Works
Are now prepared to execute orders for the manufacture of
All Kinds of Bottles to Order.
Office, No. 621 Clay street, San Francisco. 3vII-3m

EDWARD BOSQUI & CO.,
PRINTERS,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
No. 517 Clay street, between Clay and Sansome streets,
SAN FRANCISCO. 24v10

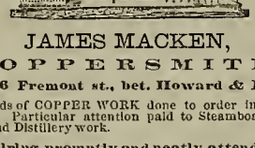
BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery and Sansome, San Francisco. 4v8-tf

JOHN DANIEL,
(SUCCESSOR TO O. GORI)
MARBLE WORKS,
No. 408 Pine st. bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs,
Etc., On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco.
Barstow's Metallic Burial Caskets and Cases.
1tf

THEODORE KALLENBERG,
Maker of Models for Inventors.
MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
No. 418 Market street, San Francisco. n7-tf

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Penn.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco, Cal. 10v8-Im


JAMES MACKEN,
COPPERSMITH,
No. 226 Fremont st., bet. Howard & Folsom.
All kinds of COPPER WORK done to order in the best manner. Particular attention paid to Steamboat, Sugar House and Distillery work.
Repairing promptly and neatly attended to.
13vII

Fire, Hydraulic and Suction Hose
And Leather Belting.
M. M. COOK & SON,
861 Battery Street, San Francisco,
Are now manufacturing as above, Fire, Hydraulic and Suction Hose, and Leather Belting, of any dimension and in any quantity which may be desired. Fire Hose and Belting constantly on hand or manufactured to order. Also Saddles and Horse Collars.
The subscribers would respectfully ask purchasers to call and examine their stock—also testimonials of the efficiency of their work from such as have used their hose both for fire and mining purposes. A diploma was awarded to us last year, by the Mechanics' Institute, of this city, and a silver medal this year. 12vII-1y

NEW YORK PRICES.
WATCH REPAIRING AT NEW YORK PRICES.
C. E. COLLINS,
No. 602 Montgomery street, San Francisco.
EXCLUSIVE AGENT
—FOR THE—
AMERICAN
WATCH FACTORY.
A large assortment of these
Superior Watches,
In Gold and Silver Cases,
Constantly on hand, and sold at Factory prices. Also,
ENGLISH AND SWISS WATCHES,
Imported directly from the Manufacturers.
The American Company are now making
VERY FINE WATCHES FOR LADIES.
☞ A large assortment of Gold Chains and Jewelry. 25v10-6m
NEW YORK PRICES.

I. M. WENTWORTH & CO.,
Manufacturers and Jobbers of Ladies, Misses and Children's
Channel Nailed Boots and Shoes,
Of all descriptions. All Goods warranted as represented.
No. 210 Pine street, up stairs.
Wanted—16 or 20 Shoe Bottomers, on Ladies' work. Constant employment will be given to first-class workmen, and the highest wages paid. 13vII

Machinists and Foundries.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.

UNION IRON WORKS!

Corner First and Mission streets,
SAN FRANCISCO.

ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Quartz Mills, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.

Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter. Also, Scott and Eckart's Adjustable Cut-off Regulator—best in use; W. B. Eckart's Balance Valve for Stationary Engines; Woodward's Patent Steam Pump and Fire Engine.

Boilers.

Locomotive, Flue, Tubular, Upright, Cylinder and Cornish, and every variety of Boiler Work. All sizes of tubes and pipes for pumps.

Amalgamating Machinery.

Wheeler & Randall's improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Beldin's pan, Veatch's tubs, Prater's concentrators, Wakice's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills. Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

BLAKE'S PATENT QUARTZ CRUSHERS, of all sizes.

Oil Boring Tools and Machinery,

Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.

We have the facilities for working gold and silver quartz and other ores, to test their value, by the hundred weight or ton.

Russia Iron Screens, of all degrees of fineness and of all qualities of iron.

All work done in the best manner at the lowest cash prices. 2Iv10

H. J. BOOTH & CO.

Miners' Foundry
—AND—
MACHINE WORKS,
First St., between Howard and Folsom Streets,
SAN FRANCISCO.

EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as

Steam Engines and Boilers, Flour, Saw and Quartz Mills,

Machinery, Mining Pumps, Amalgamators,

Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities. FREE OF COST.

All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.

HOWLAND, ANGEL & KING.

Vulcan Iron Works Company
[ESTABLISHED 1850.]
First, Natoma and Fremont Streets.

IRON FOUNDERS,
Steam Engine and Locomotive
BUILDERS,
Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as

Mining, Steamship, and Steamboat Machinery,
Railroad Machinery, Flouring Mills,
Locomotives, Quartz Mills,
Car Trucks, Sugar Mills,
Car Wheels, Saw Mills,
Housings and Irons; and
Manufacturing Machinery of Every Kind.

Sole Manufacturers of
HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR
BEATH'S AMALGAMATOR:
HESSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;
BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;
FAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;
JONVAL'S IMPROVED WATER WHEEL;
LEFFEL'S AMERICAN DOUBLE TURBINE WATER WHEELS.
STEVEN'S PISTON PACKING RINGS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.

Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

JOHN P. GALLAGHER. JOSEPH WEED.

GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to. Prices moderate. ☜
No. 125 First street, opposite Minna next door to Pacific Foundry. j21f
[Removed from Oregon street, between Front and Davis.]

A Good Idea.—Among the school books used in France is one entirely unknown in this country, consisting of *fac similes* of letters written by business men, eminent people, etc., intended to teach children the art of reading writing, of which there is almost universal ignorance in America. Every variety of hand is selected, beginning with the best, and gradually proceeding to scrawls which puzzle printers and "blind letters" men in postoffices.

It is estimated that the Peace expenses of the Government will amount in the aggregate to about $110,000,000 annually, while the income will, under present laws, amount to some $300,000,000.

SANTA CLARA COLLEGE, S. J.,

SANTA CLARA, CAL.

Conducted by the Fathers of the Society of Jesus.

The FIFTEENTH ANNUAL SESSION of this College will commence on

Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $350

For further information and catalogues, apply to the President of the College, or to Rev A. Maraschi, St. Ignatius College, Market street, San Francisco.

3v11 REV. A. MASNATA, S. J., President.

CALL STABLE.

N. GISHWILLER

Would respectfully inform the public that he has opened a large and well-arranged LIVERY STABLE,

On B street, Summit City, Cal.,

(two doors below the Lake House), where good Saddle and Buggy Horses can be had at all times. Our charges will be reasonable, and we hope, by prompt attention, to merit a share of the public patronage. 10v11-3m

Dissolution of Partnership.

NOTICE IS HEREBY GIVEN, THAT THE PARTNERship heretofore existing between the undersigned, under the name and style of Fisk & Barber, and doing business as Grocers, is this day dissolved by mutual consent. The business will hereafter be conducted by Fisk & Brown, at the old place, 811 Howard street. The business of the old firm will be settled by Fisk & Brown.

J. M. FISK.
CHAS. J. BARBER.

San Francisco, Sept. 30, 1865. 15v11-4t

LICK HOUSE,

Corner of Montgomery and Sutter streets,

SAN FRANCISCO.

S. ALSTROM AND G. S. JOHNSON, Prop'rs.

This elegant and commodious Hotel is situated on the principal promenade street of San Francisco. The Lick House is finished and furnished with a degree of beauty and excellence unsurpassed, combining all the modern appliances and arrangements of a FIRST CLASS HOTEL, thus offering superior inducements to the traveling public. The proprietors assure their patrons that the Lick House shall not be excelled in any of its appointments, or in polite attendance or attention to all the comforts of its guests. 15v11

GEORGE T. PRACY,

MACHINE WORKS,

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

SAN FRANCISCO.

STEAM ENGINE, FLOUR AND SAW MILL

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

☞Special attention paid to Repairing.☜ qy-3

UNION IRON WORKS,

Sacramento.

WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Dunbar's Patent Self-Adjusting Steam Piston PACKING, for new and old Cylinders, manufactured to order.

Front Street, between N and O streets,

14v11 SACRAMENTO CITY.

LEWIS COFFEY. J. S. RISDON

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

MITCHELL'S

COMBINED

FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

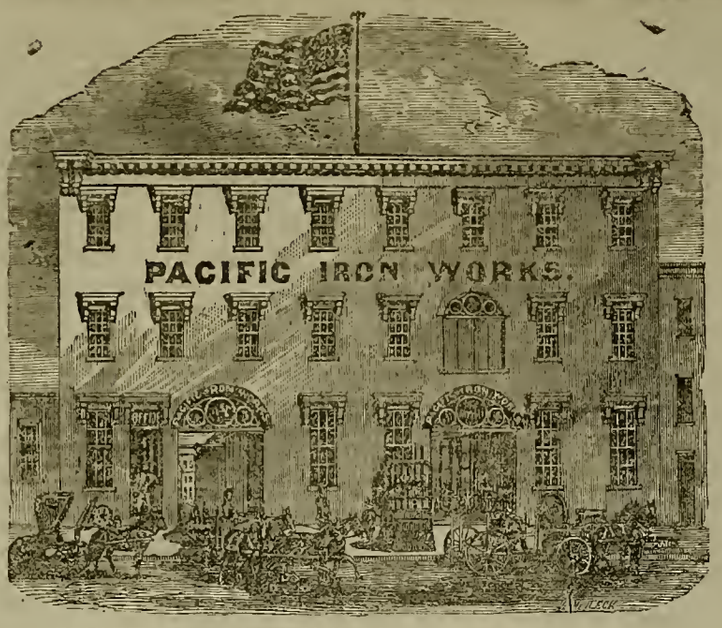
The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with OAL-LAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.

San Francisco, Aug. 22d, 1865. 10v11 3m



THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting Machinery of the most approved construction. Flour, Saw, and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully Solicited.

GODDARD & COMPANY.

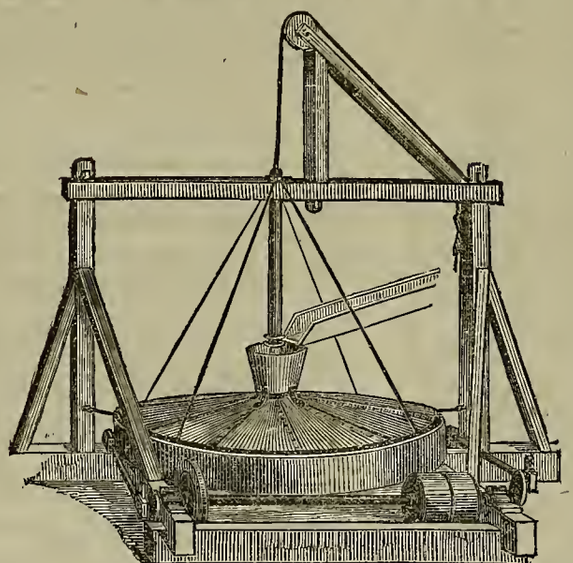
GOLD AND SILVER ORES.

UNDENIABLE FACTS FOR THE MINING PUBLIC.

At the Exhibition in the Fall of 1864, the Mechanics' Institute awarded a Premium to

E. B. PRATER,

FOR THE BEST CONCENTRATOR.



The proprietors of this Concentrator feel satisfied that, with the latest improvements, IT HAS NO EQUAL IN USE. Large numbers of these Machines are now in successful operation in different parts of this State, Arizona, Nevada Colorado, Idaho, and Mexico. One of these Concentrators can be seen in operation at the San Francisco Foundry, northeast corner of Fremont and Mission streets.

The Prater Concentrator was invented at Washoe in the year 1863, and patented December 6, 1864; since which time it has got into successful operation, as above stated, and as an evidence of its worth, orders frequently come from those who have used them. The following telegraphic dispatch has just been received by the Fulton Foundry, from one that got a Prater Concentrator about four months ago:

PORTLAND, Oregon, August 3, 1865.—Send one of Prater's Concentrators by first steamer. A. C RIPLEY.

Two Concentrators were ordered on the 26th August, 1865, for the Buell Mill, Austin, Reese River District, by J. B. Murphy, who has been using them over twelve months

Circulars sent free, giving description and reference as to working, etc., on application to

HUNGERFORD & HENDY, Proprietors.

2v11-1am **402 Montgomery st., Express Building, Room No. 3 (fourth floor) San Francisco.**

A. ROMAN & COMPANY,

BOOKSELLERS, IMPORTERS and PUBLISHERS,

417 and 419 Montgomery Street, San Francisco,

Offer for sale a large and well selected stock of Works on the **Mechanical Arts,**

Mining, Assaying, Metallurgy, Engineering, Architecture and Carpentry, Chemistry, Drawing, Agriculture, Geology, Mineralogy, etc.

☞All new works received as soon as published.☜

FOR SALE AT THE LOWEST PRICES.

17v11-1m ORDERS BY MAIL PROMPTLY AND CAREFULLY ATTENDED TO.

PALMER, KNOX & CO.,

Golden State Iron Works,

Nos. 19, 21, 23 and 25 First Street,

SAN FRANCISCO.

MANUFACTURE ALL KINDS OF

MACHINERY,

STEAM ENGINES AND QUARTZ MILLS

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S

NEW GRINDER AND AMALGAMATOR,

HEPBURN & PETERSON'S

AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,300 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

FULTON

Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

SAN FRANCISCO

Foundry and Machine Works,

N. E. Cor. Fremont and Mission streets,

Manufacturers of

Marine and Stationery Engines

Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.

—ALSO—

Wine, Cider, Cotton and Tobacco Presses of the latest Improved Patterns.

Brodie's Improved Patent WIND BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Baux & Culod's Amalgamator and Separator; W. W. Tupper's Patent Sectional Grate Bar; Coal Oil Well Boring Machinery complete, on hand.

STEAM ENGINES AND BOILERS,

Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.

MACHINERY, OF ALL DESCRIPTIONS,

Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates.

6v11-1y **DEVOE, DINSMORE & CO.**

Novelty Iron Works,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY*. Send for a Circular.

E. T. STEEN.

105, 107 and 109 Fremont st., cor of Mission,

SAN FRANCISCO 21v9tfq

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, San Francisco. qy29-t

JOHN LOCHHEAD'S

STEAM ENGINE WORKS,

Beale Street, near Mission Street,

SAN FRANCISCO.

Steam Engines of every description built to order—Marine Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer.

FROM AUSTRALIA.—The British barque Antevida arrived at this port on Thursday from Newcastle, N. S. W., after a voyage of fifty-eight days. The only mining news we have been able to gather is contained in the two following items:

The rush to the Grey River district is turning out well. No less than 15,500 ounces of gold were received in Nelson within a week, from the Hakitika and Gray diggings.

The amount of gold received at Sydney during the week ending August 18th, was 4,905 oz., 12 pwts., 18 grs.

THE MARIPOSA ESTATE.—The Mariposa *Gazette* says: That the Mariposa estate is superintended by Dodge Bros., San Francisco, on behalf of the creditors in that city, while Howard A. Martin, clerk under Mr. Olmstead, assumes control of all business pertaining to the Mariposa Company. Mr. Olmstead has gone East.

It is stated by the fishermen that after the earthquake no fish would bite for a consideable length of time. An exchange remarks that they probably lost their appetites, as many men did. If the fish got such thumps as was delivered upon the bottoms of the vessels in the harbor and near the Golden Gate, it is no wonder they lost their appetites and wouldn't bite.

Ex-Gov. BROSS, of the Colfax party, in a letter to the Chicago *Tribune*, predicts that "the child now lives" who will see San Francisco the largest city on the continent.

MOUNDS of gypsum, highly impregnated with sulphur, have been discovered near Silver Peak, in Lander county, Nevada.

THE Placerville "Recorder" favors the calling of a Miners' Convention in El Dorado county.

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Eagle Quartz Mining Company—Location of Works, Amador County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 23d day of October, 1865, an assessment of seventy-five (75) cents per share was levied upon the capitel stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, 605 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of December, 1865, to pay the delinquent assessment, togothor with costs of advertising and expenses of the sale. By order of the Board of Trustees.

JOHN M. BURNETT, Secretary.

Office, 605 Montgomery street, San Francisco, Cal oc28

Emilia Mining Company, State of Guerrero, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 26th day of October, 1865, an assessment of twenty-five (25) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, No. 55 Montromery Block, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be mede before, will be sold on Saturday, the 9th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, San Francisco, Cal. oc38

Honest Miner Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the followiug described stock, on account of assessment levied on the 28th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Allen, H H	bal of 294	6	$3 00
Chevers, W H	46	6	3 00
Frank, J	296	8½	4 25
Hoffman, S	297	3	1 50
Morrissy, Jno	164	2	1 00
Rosenbaum, F H	148	1	50
Reed, J L	290	7	3 50
Wightman, Jno	300	2	1 00
Work, Geo	291	2	1 00
Shipley, A J	298	2	1 00

And in accordance with law, and an order of the Board of Trustees, made on the 28th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Company, by Jones & Bendixen, on the 18th day of November, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. oc23

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Mammoth Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 18th day of September, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allred, W C	125, 126, 127, 128 10 ea	40	40 00
Allred, W C	not issued	155	155 00
Allstrop, Thomes	58	5	5 00
Arnold, B W	183	3½	3 35
Arnold, Mrs B W	223, 224 5-ea	10	10 00
Austin, H S	230	5	5 00
Byam, H S	8	20	20 00
Byam, H S	22	12	12 00
Butterfield, D C	99	6½	0 50
Butterfield, D C	100	6	6 00
Boggs, Geo W	122, 123 5-ea	10	10 00
Boone, Harvey	123, 124 10-ea	20	20 00
Berg, John A	146	5	5 00
Brown & Kent	292, 296 10-ea	20	20 00
Brown & Kent	293	26	26 00
Brown & Kent	177, 294, 297 5-ea	15	15 00
Brown & Kent	298	7	7 00
Brown & Keut	300	239½	239 50
Brown, Wm	259, 280 10-ea	20	20 00
Brown, Wm	261	5	5 00
Bolts, John	268	10	10 00
Bent, Charles	318	10	10 00
Crawford, Wm	not issued	44	44 00
Cornwell, James F	1, 2 10-ea	20	20 00
Clark, J W	314, 315 5-ea	10	10 00
Clark, J W	316	3½	3 50
Curran, B	216	5	5 00
Curran, Mrs B	168	5	5 00
Curran, Mrs B	257	29½	29 50
Collins, G L	278	5	5 00
Christianson, Phillip	113	10	10 00
Clark, Thomas	204	5	5 00
Clark, P A	327, 328 5-ea	10	10 00
Creamer, M	275	33	33 00
Dutton, David	5	6	6 00
Dyson Z	not issued	8	8 00
DeGroff, Wm	92	5	5 00
Douglass, R E	219, 220 10-ea	20	20 00
Douglass, R E	221	5	5 00
Eckell, A W	235	10	10 00
Elgin, W A	250	10	10 00
Ellis, F M	184	5	5 00
Francis, J H	116	10	10 00
Francis, J G	212	4	4 00
Freeman, H	152	6	5 00
Gray, Thomas	67	10	10 00
Gilbert, S W	203	10	10 00
Gilham, John	211	6	6 00
Hill, V R	135	6¼	6 50
Hill, V R	160, 163 5-ea	10	10 00
Hill, V R	165	10	10 00
Herbert, A W	12	10	10 00
Harmon, Wm	234, 249 5-ea	10	10 00
Honsinger, G B	253, 254, 255 10-ea	30	30 00
Honsinger, G B	257	5	5 00
Honsinger, G B	258	6	6 00
Hudson, David	283	25	25 00
Justice, J D	86, 281 5-ea	10	10 00
Justice, Emeliah	94	5	5 00
Jetter, Jacob	100	12½	12 50
Kerby, Z C	89	7	7 00
Kent, Wm	262	10	10 00
Kent, Wm	264	6	0 00
Kent, Wm	265	1-6	16
Kent, Wm	274	3	3 00
Larson, C	140	12	12 00
Larson, C	141, 142 25 ea	50	50 00
Larson, C	180	13	13 00
Larson, C	not issued	61½	61 50
Lock, T J	71	10	10 00
Lock, T I	76, 77 20-ea	40	40 00
Lock, T J	73, 74 5-ea	10	10 00
Levy, G N	145	10	10 00
Lustig, Isaac	151	5	5 00
Lachman, Louis	213, 215 5-ea	10	10 00
Luciani, Charles	218	3½	3 50
Larson, Erick	272	20	20 00
Lefforts, James	not issued	5	5 00
McGee, James	11	10	10 00
Morrison, James	87	5	5 00
Mecklenberg,	115	5	5 00
Marks, M	138	5	5 00
Marks, Isaac	139	5	5 00
McCormick, H M	197	5	5 00
Mylett, James	222, 216 10-ea	20	20 00
Mylett, James	247	5	5 00
McComber, J B	276	7	7 00
McComber, J B	277	10	10 00
Mead, George	286	6	6 00
Overholt, Wm G	47	10	10 00
Owens & Pendegast	313	10	10 00
Pearson, J N	104, 153 10-ea	20	20 00
Pearson, J N	154, 155, 105, 106 5-ea	20	20 00
Pearson, J N	24	6½	6 50
Phillips, J W D	150	5	5 00
Phillips, W L	175, 176 5-ea	10	10 00
Prescott, A A	102	7½	7 50
Parker, John E	317	5	5 00
Porter, Geo K	319	10	10 00
Reed, B K	69, 70 5-ea	10	10 00
Rickard, A	90	10	10 00
Rickard, A	91	35	35 00
Shear, W C	226, 227, 228, 229, 230 10-ea	50	50 00
Shear, W C	231	11½	11 35
Scott, H D	169	15	15 00
Scott, H D	291	40	40 00
Smith, M P	207, 208, 209 10-ea	30	30 00
Swinerton, D E	217	4	4 00
Sullivan, Mathew	248	10	10 00
Strnben, Jacob	282	10	10 00
Stilwagon, W W	not issued	5	5 00
Took, A	131	5	5 00
Toy, Daniel	166, 167 5-ea	10	10 00
Toy, Daniel	289	12	12 00
Toy, Daniel	236	29½	29 50
Tadlock, J C	196	5	5 00
Whitton, M S	65	2½	2 50
Whitton, M S	25, 26 50-ea	100	100 00
Whitton, M S	27	20	20 00
Whitton, M S	28, 29, 30, 31, 34, 37 10-ea	60	60 00
Whitton, R J	49	10	10 00
Whitton, R J	53, 54 5-ea	10	10 00
Whitton, R J	96	13	13 00
Whitton, R J	not issued	10	10 00
Whitton, Wm H	43, 44, 45 5-ea	15	15 00
Whitton, Wm H	42	20	20 00
Whitton, Wm H	40	25	25 00
Whitton, Wm H	66	2½	2 50
Weed, Orlando	60, 61 5-ea	10	10 00
Weed, Orlando	279	10	10 00
Wise, David	95	5	5 00
Wheeler, W J	not issued	50	50 00
Williams, Samuel	173	10	10 00
Wickham, Wm	not issued	25	25 00
Watkins, Olivia E	299	5	5 00
Winu, Marshall	232, 233, 251 5-ea	15	15 00
Walsh, Martin	269, 271 6-ea	12	12 00
Zacek, Joseph	286	23	23 00
York, E M	305, 306 5 ea	10	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 18th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the salesrooms of Olney & Co., 626 Montgomery street, San Francisco, on the 13th day of November, 1865, at the hour of 2 o'clock, P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.

Office, 338 Montgomery street, San Francisco. oc28

La Favorita Mining Company, Montezuma District, Sonora, Mexico.

SAN FRANCISCO, Oct. 25, 1865.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 25th day of October, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 25th day of October, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, 429 Sacramento street, in the City of San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of December, 1865, to pay the delinquent assessment, together with the costs of advertising and expenses of sale. By order of the Board of Trustees.

E. WASSERMAN, Secretary.

This assessment will liquidate the Company's indebtedness in full.

E. WASSERMAN, Secretary.

Office, 429 Sacramento street. oc28

Santa Cruz Petroleum Oil Works Company, Santa Cruz County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 23d day of October, 1865, an assessment (No. 14) of forty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, R. WEGENER, 415 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Thursday, the 14th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. WEGENER, Secretary.

Office, 415 Montgomery street, San Francisco, Cal. oc28

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment (No. 7) of fifty cents per share, levied September 25th, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Hardy, Jas H	bal 51	5	$2 50
Work, Geo	195	2	1 00
Sharp, G F	46	4	2 00

And in accordance with law, and an order of the Board of Trustees, made on the 25th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at the office of the Company, No. 228 Front street, San Francisco, Cal., by Jones & Bendixen, auctioneers, on Wednesday, the 15th day of November, 1865, at 3 o'clock P. M., to pay the delinquent assessment, together with costs of advertising and expenses of the sale.

E. J. DRINKHOUSE, Secretary.

Office, No. 228 Front street, San Francisco, Cal. oc28

Segregated Belcher Mining Company, Gold Hill District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of October, 1865, an assessment of four dollars per share was levied upon the capital stock of said Company, payable on the 28th day of October, 1865, in United States gold and silver coin, to the Secretary, 318 California street, City and County of San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOHN F. LOHSE, Secretary.

Office, No. 318 California street (up stairs), San Francisco, California. oc23

Mining Notices--Continued.

New Mining Advertisements to be found under another heading.

Astor Gold and Silver Mining Company, Gold Hill Mining District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of October, 1865, an assessment of one dollar and fifty cents ($1.60) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, No. 436 Jackson street, San Francisco, or to E. A. HYDE, Superintendent, Gold Hill.

Any stock upon which said assessment shall remain unpaid on Saturday, the 11th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 27th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco. oc14

Bella Vista Gold and Silver Mining Company, Cacachilas District, Lower California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 9th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
C C Perkins	161	23	6 90
Angus Cameron	118, 119, 120, 121, 122, 123, 124, 167	65	19 50
T W Mulford	89, 90, 91, 92, 93, 94, 180	75	22 50
T R Hortou	22, 23, 24, 25, 26, 27, 28, 153, 179	100	30 00
B C Howard	130	18	5 40
S E Dutton	194	24	7 20
Henry Dutton	192	40	12 00
Henry Duttou	193	30	9 00
Kate Kelly	98	18	5 40
James Shuny	bal of 156	1	30
G S Johnson	162	22	6 60
J R Knouzi	170	10	3 00

And in accordance with law, and an order of the Board of Trustees, made on the 9th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on the 28th day of October, 1865, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

J. FULLER, Secretary.

Office, 326 Clay street, San Francisco, Cal. oc14

Bolinas Petroleum Company, Bolinas Township, Marin County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 2d day of October, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said company, payable on the 3d day of October, 1865, in United States gold and silver coin, to the Secretary, 611 Clay street, Room 8, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 4th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 20th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. L. KIRBY, Secretary.

Office, 611 Clay street, San Francisco, Cal. oc7

Camargo Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of October, 1865, an assessment of five dollars ($5) per share was levied upon the capital stock of said company, payable immediately, in United States currency, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. oc21

Chloride Ledge Gold and Silver Mining Company. Location of mine, Blue Mountain District, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 16th day of October, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 606 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of December, 1865, to pay the delinquent assessment, together with costs of advertising end expenses of the sale. By order of the Board of Trustees.

R. H. SMITH, Secretary.

Office, No. 606 Montgomery street, San Francisco. oc21

Colorado Mill and Mining Company. The Annual Meeting of the Stockholders of the above Company, for the election of a Board of Trustees for the ensuing year, will be held on Monday, November 13th, 1865, at 7 o'clock P. M., at the office of the Company, 509 Clay street, San Francisco, California.

G. M. BURNHAM, Secretary.

San Francisco, Oct. 12, 1865. oc14

Notice.—The Annual Meeting of the Stockholders of the Caledonia Tunnel and Mining Company, for the election of Trustees for the ensuing year, will be held at the office of the Secretary, on Monday, November 13th, at 3 o'clock P. M.

J. M. BUFFINGTON, Secretary.

San Francisco, Oct. 18, 1865. oc14

Comet Petroleum Company, Humboldt County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 13th day of October, 1865, an assessment of thirty (30) cents per share was levied upon the capital stock of said Company, payable on the 14th day of October, 1865, in United States gold and silver coin, to the Secretary, at the office of said Company, in San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 4th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

L. CROSBY, Secretary.

Office, No. 36 Exchange Building, N. W. corner Washington and Montgomery streets. oc14

Evoca Consolidated Copper Mining Company, Court Hill District, near Black's Ferry, Del Norte County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of October, 1865, an assessment of fifty (50) cents per share was levied upon the assessable capital stock of said Company, payable immediately, in United States gold coin, to the Secretary, a the office of the Company, No. 302 Montgomery street City and County of San Francisco, California.

Any stock upon which said assessment shall remain unpaid on the 4th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 20th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

CHARLES E. ABBOT, Secretary.

Office, 302 Montgomery street, Room 6, third floor, San Francisco, Cal. oc7

Edward Everett Silver Mining Company, Cortez Mining District, Lander county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 15th day of April, 1864, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
J A Veatch	not issued	200	40 00
B B Bee	not issued	155	31 00
J S Carrie	not issued	200	40 00
M J Newmark	not issued	200	40 00
Wm. Rowland	not issued	20	4 00

And in accordance with law, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Maurice Dore & Co., No. 327 Montgomery street, San Francisco, Cal., on the 28th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

C. H. BURTON, Secretary.

Office, Room No. 4, N. W. Corner Clay and Front streets San Francisco, Cal. oc14

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 18th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Name.	No. Certificate.	No. Shares.	Amount.
Adams, Mrs. Anna	not issued	5	5 00
Ament, H E	159	5	5 00
Brown, Thomas	149	5½	6 00
Brown, Thomas	not issued	4	4 00
Brown, Mrs L C	142	5	5 00
Bluman, F	358	5	6 00
Bowland, Wm	364	5	5 00
Coon, M R	47	50	50 00
Coon, M R	51	8	8 00
Coon. M R	351	5	5 00
Coon, M R	352	4	4 00
Curley, James	384	5	5 00
Cornwell, J F	40, 41, 42, 43 10-ea	40	40 00
Castle, Levi	101	5	5 00
Demming, Wm	53	10	10 00
Dutton, D	38	0	0 00
Dutton, D	360	15	15 00
De Groff, Wm	70, 71, and 405 10 ea	30	30 00
De Groff, Wm	404	15	15 00
Farmer, L	not issued	1	1 00
Gelz-by, T L	93	10	10 00
Grigsby, A D	95	10	10 00
Grigsby, R F	94	10	10 00
Grigsby, A F	not issued	4	4 00
Griffith, Wm P	220	10	10 00
Griffith, Wm P	227 and 228 5-ea	10	10 00
Gardner, C A	278	2	2 00
Hendrikson, H	123	5	5 00
Hollingsworth, H	161	5	5 00
Hastie, Robert	311	10	10 00
Hastie, Robert	353	5	5 00
Joy, M	not issued	13¾	14 00
Jones, Wm	224, 225, 273 and 274 5-ea	20	20 00
Jones, Wm	223 and 285 10-ea	20	20 00
Justice, J D	306	5	5 00
Klepsig, J C E	91	4	4 00
Kercheval, S A	313	10	10 00
Neal, Johanna	0	5	5 00
Mulgrit, John	121 and 321 5-ea	10	10 00
Morrison, James	144	5	5 00
Mercer, Mrs Susan	382	10	10 00
McGovern, P H	300 and 305 5-ea	10	10 00
Miller, John	254	5	5 00
McCuen, J H	304	10	10 00
Marks, M	286	5	5 00
McCord, James H	401	1	1 00
Pearson, I N	114, 115, 163, 375 and 376 5-ea	25	25 00
Pearson, I N	370	20	20 00
Pearson, I N	372, 373 and 374 10-ea	30	30 00
Pearson, I N	371	1	1 00
Palache, E	97 and 213 5-ea	10	10 00
Palache, F	284	10	10 00
Senter, Riley	293	20	20 00
Stall, John	not issued	1	1 00
Townsend, T B	210	10	10 00
Vann, Matthew	not issued	5	5 00
Wines, Charlce B	120	5	5 00
Winnie, J P	183	10	10 00
Winnie, J P	180	8	8 00
Winnie, J P	190	2	2 00
Winnie, Mrs E C	186 and 187 5-ea	10	10 00
Wyckoff, J L	18	10	10 00
Whitton, Green	126 and 127 5-ea	10	10 00
Whitton, C J	76	10	10 00
Whilton, R J	400	10	10 00
Whitton, R J	410, 411 and 412 5-ea	15	15 00
Whitton, R J	84	0¾	4 00
Whitton, Wm H	78	12	12 00
Whitton, Wm H	330 and 331 10-ea	20	20 00
Whilton, Wm H	332	7	7 00
Whitton, Wm H	333	5	5 00
Whitton, Wm H	339	40	40 00

And in accordance with law, and an order of the Board of Trustees, made on the 18th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of Messrs. Olney & Co., No. 626 Montgomery street, San Francisco, Cal., on the 6th day of November, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.

Office, 338 Montgomery street, San Francisco. oc21

Good Hope Gold and Silver Mining Company, Alpine District, Alpine County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 11th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
D A Hopkins	108	30	$15 00
I Blum	70	10	5 00
Wangenheim & Blum	300	5	2 50
L Well	81	25	12 50
B C Brown	343	20	10 00
Geo Lowe	122	10	5 00
J W Harvey	262	10	5 00
Peter Boyle	124	10	5 00
B F Pettis	129	10	5 00
S Magness	130	10	5 00
W A Johnson	165	10	5 00
W A Johnson	278	5	2 50
A H Bates	138	10	5 00
J Brady	141	10	5 00
Chas Stackpole	164	10	5 00
E Ganoung	171	5	2 50
Mary Ready	551	10	5 00
D C Mitchell	181	5	2 50
J Evans	187	15	7 50
A Tournoll	195	5	2 50
A Tournell	217	5	2 50
Chas Wolfer & Co	192	15	7 50
L J Simmons	207	28	14 00
A L Marsden	354	5	2 50
J T Sproul	232	5	2 50
J M Johnson	249	10	5 00
W C Jewell	251	5	2 50
D Collier	266	25	12 50
D Collier	668	10	5 00
D Collier	269	10	5 00
J H Haynes	284	15	7 50
J H Haynes	285	10	5 00
J Tulte	280	10	5 00
J Tulte	281	9	4 50
J Tulto	282	5	2 50
W H French	291	5	2 50
W Prusser	308	5	2 50
J R Palmer	309	5	2 50
Ceo Herman	314	5	2 50
C Wagley	316	10	5 00
H J Olds	330	5	2 50
H R Towasend	350	20	10 00

And in accordance with law and an order of the Board of Trustees, made on the 11th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Company, 626 Montgomery street, San Francisco, on the 28th day of October, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

PRESTON MORRIS, Secretary.

Office, 526 Montgomery street, San Francisco. oc14

Hunscom Copper Mining Company, Low Divide District, Del Norte county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of October, 1865, an assessment of fifteen cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, 609 Market street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 11th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 27th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

S. S. SWEET, Secretary.

Office, 609 Market street, San Francisco, Cal. oc14

Hornet Gold and Silver Mining Company.

Location of works, Lander County, Nevada.

Notice is hereby given, that in accordance with an order made this day by the Board of Trustees of the Hornet Gold and Silver Mining Company, there will be sold at public auction, at the office of the Company, 402 Front street, by Jones & Bendixen, auctioneers, on Tuesday, the 21st day of November, 1865, at 1 P. M. of that day, to the highest bidder, for cash, in United States coin, so many shares of the capital stock of said company standing in the names of the following shareholders as will be necessary for the payment of an assessment of fifty cents per share, duly levied thereon by the Board of Trustees, on the 15th day of February, 1864, together with expenses of advertising and sale, to wit:

Names.	No. Certificates.	No. Sbarce.	Amount.
Argyrus, B	88	5	$2 50
Addleberger, C F	8, 9, 10 each	10	15 00
Addleberger, C F	14	5	2 50
Baker, Fred	28, 29, 30, 32 each	10	20 00
Baker, Fred	35, 36, 37 each	5	7 50
Brown, W J	85	20	10 00
Casen, J D	70	10	5 00
Casen, J D	77	12½	6 25
Coddington, Geo W	86	20	10 00
Kerley, J C	38, 39 each	20	10 00
Kerley, J C	40, 41, 42 each	10	15 00
Kerley, J C	43	5	2 50
Kerley, J C	44	6	3 00
Massey, J M	63, 55 each	22½	22 50
Massey, J M	56	12½	6 25
Massey, J M	57	20	10 00
Massey, J M	60	10	5 00
Massey, J M	62	5	2 50
Ramsey, L W	72, 73, 74 75 each	10	20 00
Roman, Herman	87	19	9 50
Simpers, Geo W	81	20	10 00
Simpers, Geo W	82, 83, 84 each	10	15 00
Todd, Jos	1, 2, 3, 4, 5 each	10	25 00
Todd, Jos	6	12½	6 25
Todd, Jos	7	5	2 50
Turcman, C W	78	20	10 00
Turcman, C W	78, 80 each	10	10 00
Welton, E W	48, 49, 50, 51, 52 each	10	25 00
Wade, J P	64, 64 each	5	5 00
Wade, J P	65, 66, 67 each	10	15 00
Campbell, M	89, 90 each	5	5 00

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco.

San Francisco, Oct. 10, 1865. oc21

Jewett Gold and Silver Mining Company, Gold Hill Distriel, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 11th day of October, 1865, an assessment of one ($1) dollar per share was levied upon the assessable capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Friday, the 10th day of November, 1865, will be advertised as delinquent, and unless payment shall be made before, will be sold on the 25th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. M. BURNHAM, Secretary pro tem.

Office, 509 Clay street. oc14

Keokuk Gold, Silver and Copper Mining Company, Clayton Mining District, Contra Costa County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of October, 1865, an assessment of ten (10) cents per share was levied upon the capital stock of said Company, payable on the 21st day of October, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, 308 and 310 Front street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 4th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

A. B. WINEGAR, Secretary.

Office, 308 and 310 Front street, San Francisco, Cal. oc21

Knox Gold and Silver Mining Company, Silver Mountain District, Alpine County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of October, 1865, an assessment of forty (40) cents per share was levied upon the capital stock of said Company, payable on the said 7th day of October, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, No. 2 Odd Fellows' Hall, in the City and County of San Francisco.

Any stock upon which said assessment shall remain unpaid on the 11th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

SAMUEL P. HOWES, Secretary.

Office, No. 2 Odd Fellows' Hall, San Francisco, Cal. oc14

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible.

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

Maria Silver Mining Company, Chihuahua, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of October, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, in this city.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

AUGUST KUNAST, Secretary.

Office, 540 Washington street, San Francisco, Cal. oc21

Ontario Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 19th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
T A Waterman	94	4	$2 00
T A Waterman	195	10	5 00
Wm Bell	166	1	50
R S Eells	67	5	2 50
R S Eells	68	5	2 50
R S Eells	69	5	2 50
R S Eells	70	5	2 50
R S Eells	71	5	2 50
R S Eells	72	5	2 50
H Rose	200	5	2 50
D Rose	222	5	2 50
G A Pitney	290	10	5 00
G A Pitney	291	10	5 00
J W Dunham	310	10	5 00
E S Webber	313	5	2 50
G W Mason	314	10	5 00
E Stahle	315	10	5 00
J H Taber	319	3	1 50
J D Chace	193	5	2 50
J D Chaco	198	5	2 50
J D Chace	237	10	5 00
J D Chace	238	10	5 00
J D Chace	239	10	5 00
J D Chace	241	5	2 50
J D Chaco	242	5	2 50
J D Chace	244	5	2 50
J D Chace	246	5	2 50
J D Chace	309	2	1 00

And in accordance with law, and an order of the Board of Trustees, made on the 19th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of Maurice Doro & Co., No. 327 Montgomery street, San Francisco, on the 6th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

A. H. BEWLEY, Secretary.

Office, 323 Montgomery street. oc21

Old Colony Gold and Silver Mining Company—Location of works, Austin, Reese River, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of an assessment levied on the 12th day of September, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
F J Tuibault	41	40	$240 00
H F Cutter	35	50	300 00
H F Cutter	39	25	150 00

And in accordance with law and an order of the Board of Trustees, made on the 12th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at 523 Montgomery street, San Francisco, on the 25th day of October, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

H. O. HOWARD, Secretary

Office, No. 523 Montgomery street, San Francisco.

POSTPONEMENT.—The above sale is hereby postponed until Wednesday, November 1st, 1865, at the same hour and place. By order of the Board of Trustees.

oc21 H. O. HOWARD, Secretary.

Oroville Gold and Silver Mining Company, Oroville, Butte County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of October, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 434 California street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 2d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

oc14 ROBT. P. LEE, Secretary.

Notice.—The Stockholders of the San Fernando Petroleum and Mining Company are requested to attend a meeting at the Office of the Company, on the first Monday in October, for the purpose of electing officers for the ensuing year.

A. N. CLARKE, Secretary.

ADJOURNMENT.—The above meeting was adjourned by a minority of the Stockholders, to the first Monday in November.

A. N. CLARKE, Secretary.

Office, 121 Montgomery street, San Francisco. oc7td

Wide West Mining Company, Esmeralda District, Esmeralda County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of October, 1865, an assessment of five ($5) nollars per share was levied upon the capital stock of said Company, payable immediately, in gold coin of the United States of America, to the Secretary, at the office of the Company, No. 103 California street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 4th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale.

J. P. DAVIS, Secretary.

Office, 103 California street, San Francisco. oc21

Walipi Gold and Silver Mining Company, (Moss Lode,) San Francisco Mining District, Arizona Territory.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 12th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
F A Walton	26	50	$50 00
F A Walton	27	60	60 00
F A Walton	28	20	20 00
F A Walton	29	20	20 00
F A Walton	30	20	20 00
F A Walton	31	20	20 00
F A Walton	32	10	10 00
F A Walton	33	10	10 00
Nathan H Vosler	44	10	10 00
Nathan H Vosler	45	10	10 00
Nathan H Vosler	46	6	6 00
Nathan H Vosler	not issued	175	175 00
John Harrie	41	10	10 00
Imogen R Levi	43	5	5 00
C H Doriot	51	25	25 00
Davis G Vinson	not issued	200	200 00

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., at No. 626 Montgomery street, San Francisco, California, on Monday, the 30th day of October, 1865, at the hour of one o'clock, P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

H. B. CONGDON, Secretary.

Office, 620 Washington street (Room 5), San Francisco, Cal. oc14

Wide West Gold and Silver Mining Company, Silver Mountain District, Alpine County, California.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 12th day of September, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Anthony, A	180	5 bal	$2 50
Brown & Kent	264	5	5 00
Bost, Reuben	0, 8, 135, 137, 139, 140 141, 142, 143, 144, 146, 147, 148, 150, 151, 152, 153, 154 155 5-ea	95	95 00
Bost, Reuben	156, 16, 163, 165, 166 10-ea	50	50 00
Bost, Reuben	257, 259 31-ea	62	62 00
Barnes, W A	227	10 bal	5 00
Crawford, John	84, 85, 86, 87, 88, 90, 91, 92, 93 5-ea	45	45 50
Crawford, John	83, 97, 98, 99 10-ea	40	40 00
Dayley, James	185	10	10 00
Davis, J F	214	10	10 00
Davis, J F	215, 210, 217, 218, 219 220, 221, 222 5-ea	40	40 00
Edsall, S B	not issued	150	150 00
Earl, Tuomae	238	15 bal	7 50
Fido, Wm	not issued	200	200 00
Grayham, T B	72	10	10 00
Johnson, H	not issued	5	5 00
Johnson, H	271	5	5 00
McGee James	not issued	5	5 00
McManes, Dr	258	31 bal	15 50
McManes, Dr	260	32 bal	16 00
McGinsey, J A	30	10 bal	5 00
McGinsey, J A	33	5 bal	2 50
McGinsey, J A	34	6 bal	3 00
McGinsey, J A	not issued	12 bal	6 00
McDonald, Donald	234	10 bal	5 00
McSpadin, J O	201	10 bal	5 00
Porterfield, H	176	10	10 00
Rickman, T H	124, 125, 126 5-ea	15	15 00
Rickman, T H	128	10	10 00
Rickman, T H	129	8	8 00
Rickman & Sewell	132, 133 10-ea	20 bal	15 00
Stephens, Andrew	186	20 bal	10 00
Stephens, Andrew	not issued	115 bal	57 60
Stilwagoa, W W	267	10 bal	5 00
Vann, T	270	10 bal	5 00
West, W C	253	5 bal	2 50

And in accordance with law, and an order of the Board of Trustees, made on the 12th day of September, 1865, so many shares of each parcel of said stocks as may be necessary, will be sold at public auction, at the auction rooms of Messrs. Olney & Co., 626 Montgomery street, on the 30th day of October, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessmente thereon, together with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.

Office, 338 Montgomery street. oc14

Yosemite Mining Company, Oro Fino District, Humboldt county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 20th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Chandler, Theo S	121	10	$12 50
Folsom, A	70	25	31 25
Folsom, A	71	25	31 25
Folsom, Mrs R A	87	25	31 25
Huntington, U	87	25	31 25
Huntington, H S	85	100	125 00
Hedges, W H	49	5	6 25
Hedges, W H	60	15	18 75
Hedges, N M	61	35	43 75
Harmon, E F	91	25	31 25
Hallihurton, A	93	25	31 25
Merchant, Joel	50	5	6 25
Merchant, Joel	51	5	6 25
Merchant, Joel	79	20	25 00
Merchant, Joel	140	4	5 00
Whittier, J M	120	10	12 50
Wheaton, Thos	56	25	31 25
Wheaton, Thos	57	25	31 25
Wheaton, Thos	58	25	31 25
Wheaton, Thos	59	25	31 25
Wade, W N	142	220	275 00
Woodman, W W	77		
Woodman, W W	125	10	12 50
Woodman, W W	128	5	6 25
Woodman, W W	139	5	5 25

And in accordance with law, and an order of the Board of Trustees, made on the 20th day of September, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Company, by Jones & Bendixen, auctioneers, on Monday, the 6th day of November, 1865, at the hour of 12½ o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

S. O. PUTNAM, Secretary.

Office, 402 Front street, San Francisco. oc21

"Don't Give up the Ship."—This forcible and beautiful expression, attributed to the gallant and lamented Lawrence, as an exclamation to his lieutenant, when the men were carrying him below after his fatal wound was received, is said to have been changed, for poetical effect, by his historians, from the less elegant but more forcible expression of "Never strike the flag of my ship." The widow of this gallant officer recently died at Newport, on the 52d anniversary of her husband's funeral.

One of the best posted wine makers at Cleveland, Ohio, says that if for five years to come the people of this country plant vineyards as they have for five years past there will be more wine and grapes in the United States than in Europe.

MINING LAWS AND FORMS.

Third Edition revised and enlarged.

Complied by H. B. CONGDON.

THIS Edition contains all the laws of the *STATE OF CALIFORNIA* and *NEVADA TERRITORY*, relative to Mining Corporations together with the Mining Ordinances of Mexico, complete; Digest of Decisions of the Supreme Court; Forms etc. 16 mo. flexible cloth, 192 pp. $2.50.

Published by H. H. BANCROFT & CO.

REMOVAL!

R. WEGENER,

Accountant and Mining Secretary

Has removed to

No. 415 Montgomery Street—wes side,

Between Sacramento and California sts.,

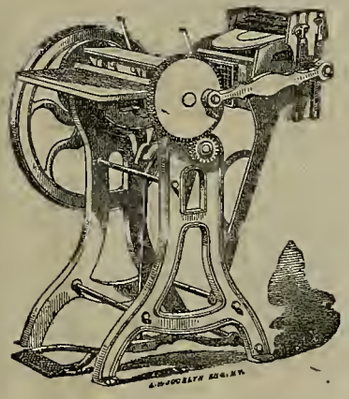
6v10 San Francisco.

STILL PROGRESSING!

THE OFFICE OF THE

Mining and Scientific Press

was removed, April 8, to the old printing stand lately known as Waters Bros. & Co.'s, southwest corner of Clay and Sansome streets (one block south of our former location), where we have consolidated with a



JOB PRINTING OFFICE,

One of the oldest and best appointed establishments in the city for

CHEAP, RAPID AND FINE PRINTING.

We are well prepared to do good work, and as cheap as any prompt and reliable firm in San Francisco, and will guarantee entire satisfaction to every reasonable individual who may be kind enough to bestow upon us his patronage.

LAW BRIEFS,
MINING CERTIFICATES,
PETROLEUM CERTIFICATES,
BLANK BOOKS,
MINING BLANKS,
BOOKS,
PAMPHLETS,
CARDS,
CIRCULARS,
MINING REPORTS.

Orders from the Interior will receive prompt attention. We shall take care to secure correctness in all work executed for parties out of town. Small packages will be forwarded by mail at our expense.

City customers, or persons visiting San Francisco, are invited to call and examine our specimens, when they will be politely informed of our prices by the Proprietors.

E. D. WATERS, Jr., C. W. M. SMITH, } Proprietors. { W. B. EWER, A. T. DEWEY,

A CHANCE FOR CAPITALISTS.

The Hinckley Quartz Lead,

Located in Jackson, Amador county, California, containing four hundred feet, is FOR SALE. It has thus far proved to be the richest claim in the county. For further information, enquire on the premises.

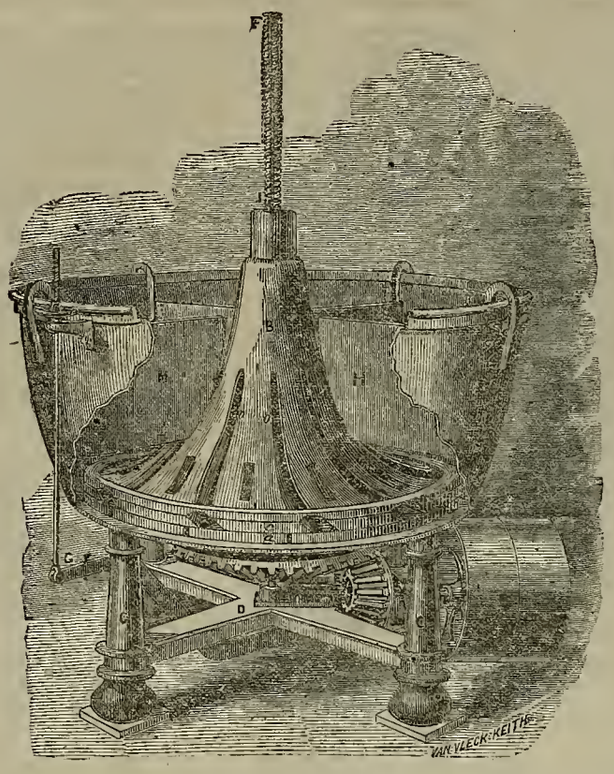
Jackson, Sept. 4th, 1865. T. HINCKLEY.

For any further information concerning myself, I will refer (without permission) to A. Hayward, Esq.; Horace Kellum, Esq.; C. W. Rand, U. S. Marshal; Bigelow Bros., Insurance Agents; M. Abrams, Esq. 10v11-4w

To Mining Companies.

A GENTLEMAN OF MUCH EXPERIENCE AS A MINing Superintendent, in England, Spain, and on the Pacific coast, and one intimately acquainted with every department of mining, and with nearly every class of mineral, is desirous of securing a position as Superintendent of some mining operation in California or Nevada. The applicant was for four years Superintendent of the New Almaden Quicksilver Mine, in this State. The best of reference given on application at this office.

San Francisco, Oct. 12, 1865. 15v11tf



THE EXCELSIOR

GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

Union Iron Works and Golden State Iron Works.

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

San Francisco, June 13, 1865.

EUREKA

PATENT BLASTING POWDER.

Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets.

Room No. 9, with San Francisco Chemical Works,

CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2v11qy

QUICKSILVER

FOR SALE BY

S. F. BUTTERWORTH

Northwest cor. Battery and California sts.

v9-19 SAN FRANCISCO.

WILLIAM PENROSE,

Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,

Is prepared to buy in any quantity

COPPER, SILVER, GOLD, LEAD

AND OTHER VALUABLE ORES;

Also Lend Bars Containing Gold and Silver,

☞ Full value paid on delivery in this City. ☜

Address Lock Box No. 992, P. O., San Francisco. 25v10

Copper, Lead, Gold, Silver,

Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,

Agent for Townshend, Wood & Co., Swansea,

No. 406 California Street, San Francisco.

15v10-3m

MARTIN & CO.,

Office, Stevenson House,

Corner California and Montgomery streets (up stairs).

WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES.

Assaying eight per cent. and upwards of Copper to the

We will make advances upon Ores of Copper. San Francisco, Post Office Box 1259. 22

VALUABLE

PATENT RIGHT

FOR SALE.

The patent right for the United States of a valuable invention can be secured at a bargain by applying at this office. The article is one of general application throughout civilization.

DEWEY & CO., Publishers.

THE STYLE

—FOR—

Fall and Winter, 1865,

Will be Introduced Aug. 26, at

MEUSSDORFFER'S

HAT MANUFACTORIES,

Nos. 635 & 637 Commercial st., San Francisco,

No. 125 J st., bet. Fourth & Fifth, Sacramento.

Corner D and Second Streets, Marysville. 12v11

WE ARE NOW OFFERING

OUR IMMENSE STOCK

—OF—

Fine Custom Made Clothing

—AND—

Gents' Furnishing Goods

AT PRICES THAT DEFY COMPETITION.

Our Stock of Clothing Consists of

ALL THE LATEST STYLES

BOTH OF MATERIAL AND FINISH.

A Large Assortment of

Trunks, Valises, Carpet Bags, Blankets, Etc.,

AT EXTREMELY LOW PRICES.

J. R. MEAD & CO.,

8v10 Cor. of Washington and Sansome streets.

SAN FRANCISCO

CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at **TUBBS & CO.'S,**

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14v10

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKEN & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 6, 1865. 11v10-tf

CHARLES BERNARD,

MANUFACTURER AND DEALER IN

Family Chartres Coffee,

AND SPICES OF ALL KINDS,

No. 707 Sansome street, cor. Gold, bet. Jackson & Pacific.

First Premium Awarded

BY THE MECHANICS' INSTITUTE,

FOR BEST COFFEE AND SPICES.

The proprietor having introduced steam power in his Manufactory, has now increased facilities to supply the trade and the public in general. All articles from his establishment are guaranteed to be pure and unadulterated. The public are respectfully invited to call and convince themselves. Country orders promptly attended to.

15v11-3m

OIL WELL BORING.

J. SEVENOAKS,

Contractor

For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1229 San Francisco. 2v11

LEHIGH COAL.

200 Tons Large Lump Lehigh Coal

Now on Hand.

I am also in constant receipt of

LEHIGH COAL,

And will be able to supply it always

At the Lowest Market Price.

JAMES R. DOYLE,

20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

NATIONS WITHOUT FIRE.—According to Pliny, fire was for a long time unknown to some of the ancient Egyptians; and when Euxodus (the celebrated astronomer,) first showed it to them, they were absolutely in rapture. The Persians, Phœnicians, Greeks and several other nations acknowledge that their ancestors were without the use of fire, and the Chinese confess the same of their progenitors. Pompanius Mela Plutarch and other ancient authors, speak of nations, who, at the time they wrote knew not the use of firo, or but just learned it. Facts of the same kind are also attested by several modern nations. The inhabitants of the Marian Islands, which were discovered in 1551, had no idea of fire. Never was astonishment greater than theirs when they saw it on the descent of Magellan in one of th ir islands. At first they believed it was some kind of animal that fixed to and fed upon wood. The inhabitants of the Philippine and Canary Islands were formerly equally ignorant. Africa at present, even in our day, is in the same state.

A NEW LAKE HARBOR.—Indiana has only ten miles of lake shore, but it is proposed to make the most of it by excavating a fine harbor at Michigan City, at an expense of $3,000,000. There was recently a convention at that place to see about it.

Machinery.

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Grecoville Quartz Crusher; his Pulverizer; and his improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast, amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. B. FAUCHERY, Engineer,

24v9

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSITON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street above First (opposite the Oriental Hotel), San Francisco

23v10

Rowe's Patent Æolian Refrigerator.

THIS NEW AND IMPORTANT INVENTION IS NOW offered to the public, with the fullest conviction that it will be found invaluable in vented such a Reel as his, in 1862 or 1863, and had not improved it more than he has, I would keep my name to myself, and not let the public know who I was. His notice puts me in mind of Shakspeare's play of "Much Ado About Nothing." My Reel is entirely different from his, and is considered, by operators who are judges of such things, to be the best; and as for the cord, I could rig one to my Reel that would run a week, but it is not necessary.

For the best Paper Reels, address

L. W. WORTH, Sonoma,

15v11tf Or, WM. LUNDBERG, San Francisco.

HUNTER'S PREMIUM CONCENTRATOR, AMALGAMATOR AND SEPARATOR,

Awarded a Silver Medal at the late Mechanics' Fair.

HUNTER'S CONCENTRATOR CAN BE SEEN IN OPERation daily at the Novelty Iron Works, Fremont street. Parties wishing to purchase Concentrators will find it to their advantage to examine the above machine before purchasing elsewhere, for the following reasons:

1st. It will work the sands from a 5-stamp battery, and save from 10 to 20 per cent. more sulphurets than any machine built on the Pacific coast.

2d. The Sulphurets are washed clean, containing less than ten per cent. of sand.

3d. The waste tree gold and amalgam is amalgamated on the copper plates; no loss of ground mercury and scarcely a trace of metal passes off with the sand.

4th. Its simplicity is a sufficient recommendation for its general use as a Concentrator. The variation of speed in a Quartz Mill does not effect the working of the Machine. The same was demonstrated at the late Mechanics' Fair, when with the greatest IRREGULARITY OF SPEED the best of results were given.

5th. There is no clogging or stopping to clean out the sulphurets and sand; consequently no waste from any inattention on the part of the attendant.

6th. In exhibiting the working of the machine (it is not run empty), all classes of ores and tailings, from 50 pounds and upwards, are concentrated that parties may see fit to test the machine with.

Give it a trial, and satisfaction is guaranteed. All orders and any information required, address,

ANDREW HUNTER,

Novelty Iron Works, Fremont st., San Francisco,

15v11-3m Or to R. T. STEEN, Agent.

Hepburn & Peterson's AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, & less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th. [Illustrated in the Mining and Scientific Press, April 9th, 861.]

HEPBURN & PETERSON.

nov8 3m*

BLAKE'S QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA, WASHOE, ENGLAND, FRANCE,

— AND —

THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,

Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.

4v10

ATTENTION, MINERS!

LINSCOTT'S PATENT CHAMBER DRILL.

Great Improving in Blasting.

W. B. LAKE

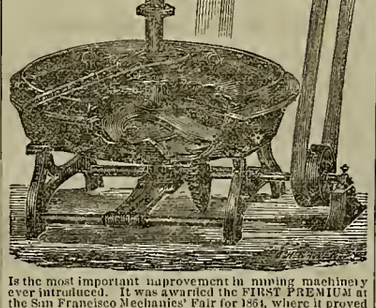
Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.

D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ¾ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

BAUX & GUIODS Separator & Amalgamator



Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIODS Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jeffersonian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crail's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

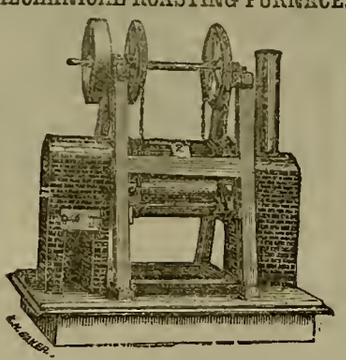
Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Keugh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,

Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8-6df

The Mechanics' Institute AWARDED A PREMIUM SILVER MEDAL TO BRUCKNER'S MECHANICAL ROASTING FURNACE.



Parties wishing to erect such Furnaces, are requested to leave their orders with

T. KALLENBERG,

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THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

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HORSE POWER

For Sawing Wood.

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

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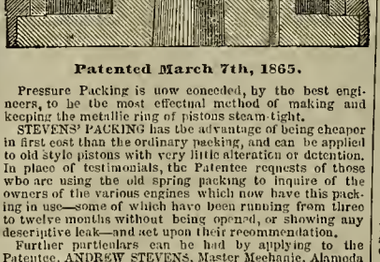

Patented March 7th, 1865.

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

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Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Alameda Railroad, or at the VULCAN IRON WORKS, where they can be seen, at any time, in course of construction.

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AT THE STATE FAIR held in Sacramento, September, 1865, a Committee, after examining both the Lipscott's and Stow's Chamber Drills, reported as follows:

We, the undersigned, Committee on Mining Tools, do award to Henry M. Stow, of San Francisco, the FIRST PREMIUM for the best Chamber Drill for blasting rock, for the following reasons:

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2d. For durability of drill;
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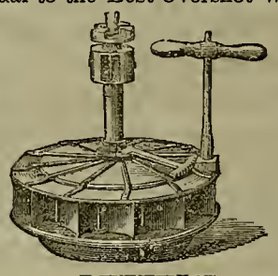

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For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setters made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setlers for themselves, at the

PACIFIC FOUNDRY,

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Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

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12v11-1m E. H. WILSON, Secretary

A Pearl Containing Gold.—We have now before us something new under the sun—a pearl in which are plainly to be seen three or four particles of pure native gold. The pearl is one found by Mr. George Eells, of this city, in a can of Baltimore oysters. The pearl is about the size of a common duck shot, and in shape is nearly round. There can be no doubt but that the pearl is a natural one, nor about the purity and genuineness of the particles of gold imbedded in it. Dozens examined it yesterday, and all were forced to acknowledge that the pearl was a real pearl, and that the gold was nothing else but gold. Two of the pieces of gold are so large as to be plainly visible to the naked eye, but the others can only be seen by the aid of a glass. These particles of gold would appear to have been the nucleus about which the pearl formed, and that so many pieces should have by some means got into one pearl would seem to be pretty good evidence that the sand about the beds from which these oysters are fished is wonderfully rich in gold. The specimen is something well worth preserving, as we are pretty sure that such another golden pearl has never been seen or heard of in any age or country. Instead of fishing for oysters, the Baltimorean oystermen had better go to scooping up the sand in which the bivalves are found.—*Territorial Enterprise.*

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17v11qy

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1852. 1865

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In all Diseases of the Urinary Organs, whether existing in MALE OR FEMALE, *from whatever cause originating, and no matter of how long standing*. It is pleasant in its taste and odor IMMEDIATE in action, and more strengthening than any of the preparations of *Bark or Iron*.

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SAN FRANCISCO, SATURDAY, NOVEMBER 4, 1865.

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MINING SCHOOLS AT THE EAST.

The importance of mining schools appears to be rapidly gaining in public appreciation at the East. The school recently started under the auspices of Columbia College, at New York, met with a reasonable degree of success the first year. The session extends from the 15th of November to the 15th of May, and the course lasts three years. Part of the summer vacation must be spent in the field under the tutelage of the Professor of Metallurgy. The expenses of the student are $160 a year, and the cost of what he breaks in the laboratory. Forty-two students have entered and several of them passed their examination for the second year. Professor Charles L. Chandler has the chair of analytical chemistry and geology; Professor Thomas Egleston, of mineralogy and metallurgy; and Professor Francis Vinton of mining, engineering, and draining, thoroughly competent men, and supported by a corps of the Professors of Columbia College. The writer from whom these facts are condensed, says: The experience of a year has proved that their plans were sufficient to produce efficiency in their students, and with the better-enforced discipline of another year, the school will take rank with the military academy at West Point for efficient and thorough instruction.

The mining school at Harvard College has already commenced its first session. This school has been established in connection with the Lawrence Scientific School, and we presume the munificence of the friends of education in New England will not suffer the institution to languish for want of funds. A large amount of money has already been donated, sufficient to give it a fair start.

LAUNCH TO-DAY.—The California Steam Navigation Company's new steamer, which they have been building at the Potrero, will be launched at half past eleven o'clock A. M. today. This is the largest steamer ever built on this coast; her extreme length being 276 feet, breadth of beam 47 feet, and depth of hold ten feet five inches. She will be driven by a 600 horse power engine. The total cost of the boat, when finished, will be about $300,000. Her freight capacity is estimated to be one-half greater than that of the Chrysopolis, without drawing any more water than that boat. A steamer will leave the Third street wharf at 10½ o'clock, to take passengers out to the launch and back.

THE Humboldt *Journal* of October 26th gives a list of some twenty companies that are boring for oil in the various petroleum districts of that county. Some are down 250 feet, and are said to have "fine indications," but no flowing well is yet reported.

EARTHQUAKES vs. BRICK WALLS.

There appears, at the present time, to be a considerable feeling on the part of many in this community in favor of abolishing the Fire Limits Ordinance, in order that landholders may exercise their option with regard to building either of brick or wood. Of course, this feeling comes from those who feel a little nervous with regard to the safety of brick buildings in the event of another severe earthquake shock. The capacity of even indifferently constructed brick buildings to withstand pretty severe shocks, was quite conclusively shown on the 8th ult.; and a very safe inference may be drawn from the observations and results of that day, to the effect that brick buildings *can* be constructed which will be proof against even much severer shocks than any which we may reasonably expect ever to witness in California. The fact that many years ago (in 1812) a frail adobe structure—a large covered area constituting a church building—was thrown down by an earthquake, killing a large number of those assembled within its walls, coupled with the more recent occurrence of the partial fall of a single insecurely built structure, and the toppling over of a few fire-walls and chimneys, affords no valid reason why the people of this city should hesitate hereafter to build brick houses, or in any way interfere with our present very properly established fire limits.

It might be well, however, and indeed would seem to be the part of wisdom, that our city guardians should frame an ordinance which should, to some extent, regulate the character of the brick buildings which should hereafter be allowed to be put up anywhere within the city, either within or without the bounds of the "fire limits." We entertain no fear, whatever, that the earth, in these parts, will open and swallow us up, or that we shall ever experience an earthquake shock which will throw down a properly-constructed brick building, of moderate hight; but we do stand in daily fear of the tottering walls of sand and brick, almost innocent of lime, and the overhanging cornices and ornaments so plentifully seen in all parts of the city, and so carelessly put up, especially the latter, that they oftentimes become detached of their own weight, and come tumbling down on the heads of passers-by, to the great danger of life and limb. It is our humble opinion that the city authorities should lose no time in framing and promulgating an ordinance which should take cognizance of this matter, and prohibit in future all such departures from even the ordinary paths of safety, to say nothing about the extreme danger which always exists in countries liable at any time to earthquake shocks of a greater or less degree of violence. Wooden cornices only should be allowed, and those properly secured; chimneys, when placed on the edges of buildings, should also be properly stayed by iron rods, and tall fire-walls projecting far above the roofs should only be allowed when a competent and disinterested engineer or architect should pronounce them so stayed as to be as safe from overthrow as the main walls of the building.

HOW BRICK BUILDINGS MAY BE CONSTRUCTED EARTHQUAKE PROOF.

In the issue of this paper of January 7th, of the present year, we described and illustrated "Goodrich's Patent Hollow Brick Walls," showing by engravings the mode of their construction, their perfect protection against dampness (a serious evil with solid walls), and their great superiority, in point of strength and power of endurance against the effect of earthquake shocks. The cost of building walls after this plan is less than that of the ordinary wall, and their construction is perfectly simple and practicable. The following is the inventor's description of their construction for an ordinary building of two or three stories in hight, with walls say twelve inches thick:

"The foundation walls, if of the ordinary hight, I would lay up in the usual style, solid to the hight of the underside of the first tier of floor-beams, tying them in the usual way, or as hereafter described for the hollow walls. From this last named level (the under side of first tier of floor beams,) I build two four inch (half brick) walls, separated by an air space or chamber of four inches along the center of the wall. All the bricks being laid as stretchers, with a full and perfect bond with each other up to the next tier of floor beams, introducing in the mortar joints at every third, fourth, or fifth course, or as often as may be thought best, as ties, strips of wood, or pieces of hoop iron, to tie the four inch walls together, to prevent them from separating or collapsing, and for otherwise strengthening the walls, and for other reasons hereinafter set forth. These strips I lay diagonally across from one four-inch wall to the other, as shown by engraving, at an angle say of 45 degrees, or at a greater or less angle with the surface of the wall, as one may think best. In a building I have lately built, I introduced them in the following plan: I placed them in every fifth joint of mortar along on the wall, about a foot or ten inches apart, measuring parallel with and along the wall, and at angle with the face of the wall of about 45 degrees, laid upon the naked bricks, their ends extending near the inner and outer faces of the wall, and were buried in, and overlaid by the following joint of mortar and layer of bricks. The next course of ties, or braces of wood, are laid at the same angle to the face of the wall, but in the *opposite direction* from the preceding ties, and this rule I observe throughout the wall, the ties constantly alternating, appearing, when looking down the hollow space along the center of the wall, like lattice or herring-bone bridging between floor timbers, and giving the same character of support to the walls that such bridging does to floor beams, in addition to their tying the walls in every other direction.

Opposite, and at the end of every set of floor beams, above the foundation beams, and entirely about the buildings, I build the wall solid the depth of the beams, excepting what is necessary for ventilation; as no dampness can penetrate, or do harm at this point, as the wall-plates would prevent all dampness going to the walls below it. This solid brick-work, of four or five courses, which it naturally would be, gives every facility necessary for anchoring the floor-beams to the exterior walls, and also distributes more equally the weight of the floor, roof, etc., over both the inside and outside walls, and makes both the inside and outside walls alike support the superstructure.

The wooden ties I have thus far made use of were made from the common four feet sawed plasterer's laths, the usual width and thickness—about one and one half inch wide by full a quarter of an inch thick.

For walls, for carrying great weights or of great hight, I would increase the inner or outer wall to a single brick wall (8-inch wall), or build three 4-inch walls (half brick walls), with two air spaces of any desired width, and let the laths or ties run diagonally across the three courses, with an 8-inch wall. Either of the last mentioned modes would answer for any place where a solid wall of the same thickness would answer.

I have also, under the same patent, another method of tying for hollow walls, which consists of a large continuous wire about the size of that used for telegraphing. This I run zig-zag from one wall to the other, lapping on each wall some three or four inches, and continuing about the building, or from opening to opening. It makes a good tie, and is valuable in many places."

Mr. Goodrich, the patentee of the above invention, is an old resident of San Jose, and his skill as an architect and builder is well supported by many of the finest structures in Santa Clara county, and the stability and superiority of his mode of constructing brick walls is attested by nearly all the county officials and leading business men of that county.

From a personal inspection, by one of the proprietors of this paper, of several buildings put up by him, we are enabled to state that those buildings were not damaged in the slightest particular by the late severe earthquake, and we are furthermore assured that the same immunity from damage is equally observable in all which he has put up. A careful examination of the principles on which these walls are built, must convince any one that where they are properly secured by ties to each other, and to the flooring and partitions, they must stand unharmed through an earthquake shock, where walls built in the ordinary manner would be reduced to mere heaps of rubbish. We look upon this invention as one of great utility, and would suggest that its merits should be carefully and thoroughly examined by our mechanical readers.

If some such plan of building as the above could be adopted, we feel quite sure that it would add greatly to the general security of life and property in this city; to say nothing of the load of anxiety it would remove from the minds of such as are more especially sensitive to these peculiar dangers, of the existence of which we are so frequently reminded in a manner which not even a philosopher can witness without some indication of nervous uneasiness.

A NEW BUSINESS FIRM.—We notice that our old friends, W. A. Holcomb and Capt. J. E. Ager, have associated themselves together under the firm of W. A. Holcomb & Co., to do a general warehouse and commission business in this city. They have established themselves at the southwest corner of Battery and Vallejo streets, where they are prepared to attend to any business in their line. Both these gentlemen are well known to business men throughout this State and Nevada. Mr. Holcomb was for a long time Treasurer of the county of Humboldt, in the State of Nevada, and is well known as an active business man, in every way worthy the confidence and patronage of the public. Capt. Ager was well known for many years, as Superintendent of the old and popular Langton's Pioneer Express Company, in which capacity he won for himself the confidence and respect of all with whom he came in contact.

COPPER ORE SHIPMENTS.—The total shipment of ore from the Union mill for the week ending October 26th, was 776½ tons, which will produce nearly or quite 200 tons of pure copper.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

The Problem of Gold and Silver Extraction--A General Review---No. XVII.

BY PROF. L. LANSZWEERT.

THE USE OF COPPER AMALGAM.

The expenses attending the patio process are generally very high, even when the reduction works are most favorably located, and the minerals of an easy nature for working. One of the principle causes of this is the loss of quicksilver; which is generally heavier in weight than the total amount of bullion obtained. Immense quantities of poorer ores than those hitherto tested could be reduced, if it was possible to extract the silver with little loss of quicksilver. In studying the chemical reactions which take place in the *tortas*, it is to be seen that several of these reactions could be produced by other metals than quicksilver, viz: by zinc, tin, lead, and copper.

Experiments with copper amalgam, made in several reduction works in Mexico and Chili, have given good results for a certain character of ores at Guadalupe and Callao. The substitution of copper amalgam for mercury not only alone reduces, considerably, the time of amalgamation, but gives a larger percentage of silver, and a less consumption of mercury. The use of copper amalgam has also lately proven itself a success in Washoe, where it has been introduced in some of the mills by William R. Frink, of Virginia City, to whom letters patent of the United States, dated August 13th, 1865, have been issued, which claim "the use of finely pulverized or precipitated metallic copper, in combination with or without the sulphate of iron, or other material used in precipitating, for the purpose of facilitating the process of amalgamating silver with the least possible loss of quicksilver." We here find at least one sensible Washoe patent process. As the patentee is himself a practical worker, there is little doubt that this system will be generally adopted when more universally known. Considering, separately for the present, the reaction of the reduction of ores containing specially chloride of silver and those containing sulphides, we find that in the ordinary process of amalgamation, the quicksilver exerts two different actions; the first is the transformation of the salts of the magistral, the production of soluble reductives necessary for the precipitation of silver; the second is the formation of an amalgam susceptible of being readily dissolved in an excess of quicksilver. The first of these two actions is the principal and inevitable course of the loss of quicksilver; the second, per contrary, exposes it only at a nominal loss, when the operation is conducted with proper care.

For the first action, quicksilver may be advantageously replaced by metallic copper, the action of which, on the salts of the magistral, is stronger; for the second action, no metal can replace the quicksilver; therefore, to economize quicksilver in amalgamation, it is necessary to obtain the entire transformation of the salts of magistral, by the addition of metallic copper, and still to have quicksilver enough, in excess to dissolve the formed amalgam. The metal, therefore, which is to replace the quicksilver as reducing agent, must be in a very finely divided or minute state; without that, its action would be very tedious and incomplete. The simplest process to obtain the copper thus divided, is to combine it with mercury, and thus make a liquid amalgam easily disseminated through the mass.

The salts and magistral is first applied to the ore, half an hour before the incorporation of the copper amalgam; the reaction in pans generally takes place in from four to six hours, depending on the time occupied by the solution of copper in reducing, to their minimum, the salts of iron and copper, and freeing the silver, which then amalgamates these with the quicksilver.

The action of the metallic copper on the salts of the magistral is generally so rapid that the results of the operation depend on the dissolution of the chloride of silver. The process is greatly facilitated by using a magistral slightly acid; the sulphate of copper, obtained from the reduction works, is preferable to the sulphate obtained of copper pyrites roasted in reverberatory furnaces.

The proportion of copper to be used is that necessary to produce the reductives—that is to say, a little more of one equivalent of copper for each equivalent of silver to be precipitated. It requires a little more than an equivalent, because the chloride of silver is decomposed only by a certain excess of reducing salts. An excess of copper must be avoided, as so much of the metal as is not dissolved amalgamates with the quicksilver, and is consequently obtained with the silver, after the distillation of the quicksilver.

According to these theoretical considerations, the operation may be done in a short time. The precipitation of the silver must be complete, if the proportion of magistral is in sufficient quantity to produce the complete dissolution of the chloride of silver. When that is properly accomplished, the loss of quicksilver by dissolution is merely nominal, and the amalgam of silver contains only traces of copper.

It seems rational not to introduce, at once, the whole amount of copper amalgam; but rather proceed, by successive incorporations or additions, as thereby a finer bullion, without copper, is obtained. The amalgamators can easily ascertain the progress of the operation, the diminution of the quantity of copper amalgam, and, by trials, would soon learn the favorable moment to add a new proportion of the metallic reaction. As it is very difficult to know the exact amount of chlorides of silver in a quantity of ore, consequently it is difficult to calculate exactly the amount of copper amalgam to use. In adding, at once, the whole amount of metallic copper, there is danger of employing too much or too little copper, by which the operator may obtain coppery silver, or lose more mercury than by proceeding by successive incorporations.

Further information with regard to this process may be obtained, by letter, from the patentee, now at Virginia City, Nevada.

SULPHIDE OF SILVER.

In the reduction of ores containing sulphides of silver, the soluble reductive salts necessary for the precipitation of silver, are produced largely by the action of the salts of the magistral on the simple or complex metallic sulphides. The principal cause of loss of quicksilver is the sulphuration of the metal, produced by the elimination of sulphur in the dissolution of the metals. The loss must be limited by the operation before the complete decomposition of these combinations in which the silver is engaged. In using the copper amalgam, part of the sulphuration of the mercury is avoided, and the dissolution of this metal is stopped through the influence of the salts of the magistral. A large proportion of magistral can be used, and consequently richer ore can be operated upon, losing less quicksilver than by the ordinary way—the advantage resulting in the substitution of copper amalgam to quicksilver is very important, although the results expected are not so favorable as with silver ores containing chlorides. The affinity of copper for sulphur is greater than those of the other metals.

[Written for the Mining and Scientific Press.]

The Silver Peak Mining District.

The Silver Peak mining district, situated in the southern termination of the Toiyabe Mountains, distant from Austin 150 miles, and from Aurora about 70, is now attracting much attention, from the fact that some of the largest, and, at the same time, equally as rich ledges have been discovered there as any yet found. The ledges generally run from eight to thirty feet in thickness of vein, and, notwithstanding their vast extent, assay and work as high as from $150 to $700 per ton.

The first locations made in the district were those of the Vanderbilt, Pocotillo, Astor, South America, and some ten others. These locations belong to the Great Salt Basin Mill and Mining company. Those of the companies' mines in the most advanced stage of development are the Vanderbilt and Pocotillo. The former is admitted to be one of the most valuable mines yet discovered. The locators gave one-half of the mine to Mr. Sam. Martin, in exchange for a 10-stamp mill, erected there by that gentleman. The mill is now in most excellent running order, and reducing daily from 10 to 15 tons of ore, which is yielding about $250 per ton by wet crushing.

Another really valuable group of ledges in this district is that of the Upton & Harker company, and known as the Cardwell, Minnappolis, Reindeer, Eagle, Belvidere, with some seven others—all on what is known as the Rothschilds' ledge. The company have in connection with their mines 360 acres of salt land, with the purest quality of salt, several feet in thickness, lying all over it, also an inexhaustible supply of wood and water.

Some of the ore from these ledges has been worked in Aurora, by mill process, yielding as high as $207 in silver and $188 in gold per ton. This result was from the Cardwell mine, a ledge fully twelve feet in thickness. Another working of these ores was from the Reindeer, yielding $220 in silver and $42 in gold per ton. The so-called Rothschild ledge, on which these locations are made, crops out for fully one and a half miles, and in some places the outcrop stands several feet above the surface. This property has been sent East for sale, and is in the hands of M. Upton, merchant, of Carson, Nev., who went to New York in September last.

THE NEW YORK AND SILVER PEAK MINING COMPANY

Is another of the leading enterprises of that remarkable mineral region. This organization stands second to none in the district; it being gotten up by some of the leading pioneers of the county, who were first on the ground, and at its discovery secured to themselves some of the very best ledges, as well as other desirable privileges, such as salt marsh, wood, and water. The mines of this company are the Silver Chamber, New York, John Grimes, and some five others. The ores from these ledges, respectively, have assayed $695.50, $707.44, and $1,166.16 per ton, in gold and silver, the latter predominating. These locations were made by Harvey A. Mills, John Grimes, W. C. Marly, and C. D. Spires. These gentlemen having several other locations in the district equally as good as those mentioned, sent these mines on to New York by Mr. A. L. R. Hallowell, who returned from there in September last, bringing with him the proceeds of the sale of these mines amounting to $190,000. The company who purchased these ledges have a 40-stamp mill on the way to their mines. Its arrival is daily looked for.

Mr. Hallowell, after disbursing his charge to the fortunate owners, and taking not more than sufficient time for the acceptance of a magnificent gold-headed cane, manufactured from the real native mountain mahogany, and put up in J. W. Tucker's (of San Francisco) best style, which was presented to him by his many warm friends in Austin, has again set out for the East. Mr. Hallowell takes with him this time some of the first locations made in the district by the same set of pioneers, who, having it all their own way, made sure of the best there was.

The number of locations sent on this time by this committee is nineteen, foremost amongst which are the Shakspeare, Maulden, Maggee, Tyrone, Utica, and Albany, assays from the ore of these ledges ranging from $200 to $1,000 per ton, and carrying gold for about one quarter of its value. The writer having examined several lots of the ore from these ledges, found them to be very excellent ores of the sulphuret class, combining slightly with iron and copper, but to a much greater extent with antimony and arsenic—little or no lead whatever appearing in the combination. All the ores examined were from depths varying from fifteen to fifty feet.

One rather peculiar feature in the mines of Silver Peak district, is that even to the very out-crop the sulphuret ores prevail, though they show considerable of the chloride and native silver in the interstices of the vein matter; the gold appearing in its native state directly in the silver sulphuret as well as in the quartz. There are two of these ledges intersected by a deep gorge or canon, on each side of which the mineral vein lies exposed for over 200 feet, whence ore enough can be taken, by merely running a tunnel on the vein, to supply a 20-stamp mill for three years from the level thus attained to the out-crop at the surface, without taking into account what may be found at a lower depth. These ledges run parallel to the Vanderbilt, at a direct distance from a half to one and a half miles. In connection with these mines the company have secured an a undance of wood, water, and salt; of the latter there is a never-ending supply. Silver Peak district seems to be ahead of any one district yet discovered in this State; at least such is the expressed opinion of all who have had an opportunity of judging from personal observation.

The writer has seen several letters from parties East to their correspondents here, to purchase for them mines in that district, and others requesting their agents to send on Silver Peak mines in preference to any other to be sold.

There is a line of stages about being started from Austin to the Peak, touching on their way at many of the best districts in the country, namely—Ione, Twin River, San Antonio, Red Mountain, and others on the way where much prospecting is now being done. Scarce a week passes but new discoveries are made, and new districts formed in the southern and middle portion of this State, and from the samples of ore brought in, they must generally be acknowledged to be rich. J. R. M.

[Written for the Mining and Scientific Press.]

A Self-Operating Water Reservoir.

Messrs. Editors:—In my travels through the State, I recently saw in Trinity county a new mode of applying water in ground-sluicing, which I think would be very beneficial to miners in some localities, if understood and practiced, especially where ground is poor and water scarce; and believing your paper to be a true friend of the miner, and the best medium of conveying information on such subjects, I send you a description of it.

This mode of applying water is by what is called a self-operating reservoir, which may be used with any quantity of water; the principal point being to make a small stream accomplish greater results than by any other mode yet practiced. One great advantage is, that one of these reservoirs can be built on any side hill. It is not designed to reserve water but to make an application of it.

For the better understanding of this mode of ground-sluicing, I will suppose a man has a piece of ground which is too poor to pick and shovel into sluices, and to attempt to ground-sluice it with a small head of water would be of no use; but let him build one of these self-operating reservoirs, and he will make good wages from the ground with his small head of water.

The construction and washing of this sluice may be described as follows: Take a box that will let out one hundred inches or more of water, lay it down in its place and throw up your bank, for the reservoir, which must be quite small, one that will empty in two minutes being most useful. Now take a piece of canvas, the exact size of the aperture in the end of the box, and nail strips of boards across it, the bottom strip being the widest, with a staple in the center; let the strips be one inch apart, and each strip narrower than the other, until a complete gate is made; then nail this gate securely to the upper end of the box, so that it will fall easily upon the end of the box, completely covering the aperture, and thus form a tight gate. Now take a pole a little longer than the box, and lay it parallel with it, and across the bank of the reservoir; notch the pole in the middle, and lay it on a round block in the centre of the bank, so that it may swing easy, like a well-pole. Now take a small rope and tie one end of it to the staple in the bottom strip of the gate, and the other end to the end of the pole, over and a little in advance of the gate. Then take a box, say three feet square and one foot deep, in the bottom of which bore an auger hole, and hang the box with cords or wire to the end of the pole. It will be necessary now to make the end of the pole which is over the reservoir heavier than the end with the empty box. Then cut a trench across the bank of the reservoir, parallel with the pole, about one foot deep, and put in this a common sluice-box, so that the water in the reservoir, when full, may run through it, into the box, at the end of the pole; the weight of the box, when full of water, will be greater than the weight at the other end of the pole, and descending, raise the other end of the pole, thus opening the gate.

The box, when full of water, must not be allowed to descend so low as to tear off the gate, but must rest upon a place prepared for it. The auger-hole at the bottom of the box must be of such size that all the water may run out of the box at the same time the water runs out of the reservoir, so that both will be empty at the same moment of time. Then the weight of the end of the pole over the reservoir being the heaviest, will descend, and the gate will shut, and thus the reservoir will fill and empty itself without the aid or care of the miner, who may be at work a mile away.

The beauty and profit of this mode of ground-sluicing is two fold. It makes available a small stream of water, and gives the miner a chance to remove all large rocks while the reservoir is filling, and will answer in many places a better purpose than a hydraulic, and a man ever so poor may avail himself of its use, and make wages from ground that would not pay in any other mode of working.

If the publication of the above will benefit any poor miner, the writer will be well satisfied. B.

Mining Summary.

The rain of Sunday night last foreshadows an early and abundant supply of pluvial favors, and a proportional in-gathering of a golden harvest. We learn from our exchanges that it was much more abundant in the interior than upon the coast. Along the banks of the Sierras, a short distance above the foot-hills, the ground was, for a short time, whitened with snow; while in some localities lower down the storm was attended with very remarkable electrical displays. We continue to gather from our exchanges abundant evidences that the most gratifying success is attending the labors and expenditures of our enterprising miners.

CALIFORNIA.

Trinity County.—We learn from the Trinity *Journal* that active preparations are being made for the approaching rainy season. At Hay Fork unusual activity prevails. Francis & Burke are pushing their ditch to completion with all possible activity. When finished, it will open rich diggings for a large number of men. Mr. Francis mentioned having taken $700 from one of his claims in a single week. Miners are gathering in on the lower river, there being some 40 or 50 in the vicinity of Cedar Flat already. The population of the county is increasing, and the signs generally cheering.

Plumas.—We find the following in the Quincy *Union*: "All the quartz mills, excepting the Buckeye, at Round Valley and Greenville are running, and making good returns."

Messrs. Trucks & Waterworth are at work removing the Buckeye mill to a place near their ledge, below Greenville. They intend having it in running order again during the next month.

The Crescent Company made the first clean-up from their new mill on Sunday last. It was much larger than they expected, as they had been running on a poor quality of rock. The amount taken out for the week's run was about $10,000.

Yuba.—The Blue Gravel Mining company, near Smartsville, says the Marysville *Appeal*, cleaned up, last week, the boxes at the head of their flume, after 30 days' run, taking out $26,600, being the largest amount, by some $2,000, ever taken out on so short a run. This is the seventh clean-up they have made since January 1, 1865. The gross amount taken out since that time has been about $240,000.

Nevada.—We learn from the *Gazette* that the Union company's incline has been sunk thirty feet below the old workings, and that the ledge is improving in character and thickness. Sixty tons of rock have been taken out. The French mill is crushing rock for various companies in the Summit district. The *Gazette* of the 25th ult., says that mill commenced the day before crushing a lot of four tons of rock from Last Chance ledge. Another lot from the Pacific ledge was then being hauled to the same mill. One load came through town the day before, and more is on the way—the whole lot amounting to twelve or fifteen tons. According to the *Transcript*, four tons from the Pacific paid $53.50 to the ton. The *Transcript* also says that twenty tons of rock from the Prosper lead lately worked at the French mill paid at the rate of $23.15 to the ton. This lead is located near Little Deer Creek, and as it costs the company only six dollars to work it, they have a good thing.

The well-known Burdett mine, which has recently passed into the hands of Eastern capitalists, according to the Grass Valley *National*, is beginning to "pan-out" well. The company has struck a wide ledge showing much free gold.

The *Union* says that the Empire company have struck another handsome ledge in their new incline, located about one hundred feet north of the mill. The ledge was struck on the 26th ult., and is very rich in sulphurets. The size or value of this ledge will be immediately tested.

The Gold Hill mill is crushing about 120 tons of rock per week, and a few days since had five tons of rock from the Enterprise lead, Summit City, at the mill.

Placer.—The evidences of the existence of silver in this county appear to be constantly accumulating. Mr. J. Campbell, an engineer on the Pacific railroad, has shown the editor of the Sacramento *Union* samples of rich silver ore obtained in Placer county. He informs that paper that, on the 28th ult., a silver lead was struck about two miles northwest of Newcastle, and that about 4,000 feet of the lead have been taken up. Samples of the rock taken from near the surface have been assayed by Waters & Co., of Sacramento, with the following result: Gold, $69.24 to the ton; silver, $191.62; total yield per ton, $260.86. Workmen are engaged in sinking a shaft on the ledge. If rock of this character can be found in considerable quantity, times will become lively in that region of Placer. A specimen of the ore which has been roasted shows an abundance of silver in globules on the surface.

El Dorado.—Speaking of the copper interest in El Dorado, the Folsom *Telegraph* says that the arrival of several vessels at New York city, loaded with copper ore from California, has awakened Eastern capitalists to the growing importance of the copper mines of this State. A number of companies that had suspended operations in this and adjoining counties, that no doubt have good claims, are again about to commence work, and several agents from the East have lately been examining the country about Folsom, for the purpose of investing their money. With a change in the financial policy of the State, Eastern men may be induced to invest their money in this State liberally.

Calaveras.—The attention of miners in this county, says the Calaveras *Chronicle*, has been turned of late to quartz mining, and we hear daily of new leads being discovered and old ones opened. Capitalists from New York, and throughout this State, are now visiting our mines with the intention of purchasing lodes and erecting machinery. In the vicinity of West Point several mills are now in operation. New mills will be built next spring at Mosquito and Rich Gulch. A mill will be put up this fall, on a lead of known richness, within two miles of Mokelumne Hill. A mill is now in running order near the Bay State Ranch, some two miles from San Andreas. Before another year expires, Calaveras with take a high rank among quartz-producing counties.

According to the Copperopolis *Courier*, the Union mine, for the week ending October 26th, shipped 776 tons. On the 25th of October the Table Mountain Company shipped from their mine 7½ tons of first-class copper ore.

Tuolumne.—The Sonora *Herald* says, "What we have so long lacked is coming to us, viz., capital to help to develop what we confidently believe to be the richest quartz leads within the limits of the State. We hear of transfers being made almost daily—not promises to pay, but for cash in hand to the seller. And what is more cheering still, arrangements are being made to put up several new quartz mills of superior capacity."

Amador.—The *Ledger* says that Boyle & Co., of the Sutter Creek Mill, near Volcano have sold out to Fogus & Co. of Sacramento The new proprietors will make various improvements.

Ward & Co., of the Golden Eagle mine, near Volcano, are erecting a fine 12-stamp steam mill.

Trenchel, Wetzlar & Co., of the Jackson Pioneer quartz mine, near Jackson, have "struck it rich." Very rich rock is also being taken from the Kennedy mine.

Tulare.—The Grass Valley *National* learns from G. D. Roberts, who recently returned from Kern River, that the mines in the Clear Creek and Long Tom districts are being developed to a depth of from one hundred to two hundred feet deep, showing a continuity of good paying ore at that depth. Mr. Roberts thinks these mines will soon be famous, as there is no longer a doubt of their great value. The Long Tom mine, owned by Messrs. Roberts & Co., is from five to seven feet thick, and the ore, as tested in arastrus, pays from eighty to one hundred dollars per ton. They are now erecting a 10-stamp mill, which will be completed by the first of January. Mr. Boston, of Grass Valley, one of the most skillful and experienced machinists of this State, has been employed to superintend the construction of the mill.

VIRGINIA CITY AND VICINITY.

The matter of draining the Comstock lode to the greatest possible depth is now being urged, with much vigor, upon the attention of stockholders interested in claims upon that lode, and the parties interested appear to look with much more favor than heretofore upon the project. The following paper has been circulated for signatures, and has already been signed by many of those most heavily interested:

"The undersigned, Presidents, Trustees, and Stockholders of mining companies on the Comstock ledge, hereby recommend the speedy adoption by all those companies of the contract offered to them by the Sutro Tunnel Company, which contract, in our opinion, presents the best plan for accomplishing the great and absolutely necessary labor of draining the lode to a good depth, besides furnishing the best means of ventilation, and the cheapest mode of extracting the ore."

We have received a copy of the contract offered by the Tunnel company to the stockholders, for the purpose of calling their special attention to the matter at their approaching annual meeting.

The yield of the mines about Virginia City and Gold Hill continues quite up to the average for several months past. The estimate for the Gould & Curry is about the same as that of last month. There is said to be a vein of ore in the west end, about the D street tunnel, 400 feet long, and 200 deep, and there is room for a great amount of ore. A couple of months ago the superintendent thought there was little prospect of getting anything in that place, but now he entertains much hope of it. The mill is reducing about 100 tons per day.

The Savage is yielding about 150 tons per day, worth $43 or thereabouts per ton. The appearance of the mine continues favorable.

The Chollar-Potosi has given notice that the stock of the consolidated company is ready for delivery to those persons who produce certificates from the proper Secretary that they hold stock of either Chollar or Potosi, clear of encumbrance or assessment.

During the week ending October 16th, 41 tons first-class and 1,306 tons second-class ores were extracted from the Yellow Jacket mine. During the same period 930 tons second-class ores were reduced—yielding $33,303.42, or an average of $35.78 per ton.

The Imperial mine, it is said upon reliable authority, is looking fully as well as ever, and that the yield for October shows a considerable increase over the two previous months. A large reserve of ore is being accumulated to provide for the contingencies of winter The receipts of bullion from this mine during the month of October were $110,000.

The hoisting works of the Daney have been shut down for a time for the reason that the company are about to commence cutting a drain tunnel several hundred feet in length to tap their mine at a depth far below the present working level.

The Dayton mills have commenced crushing ore from their mine in Gold Hill, which is yielding a large supply of exceedingly rich rock.

ESMERALDA.

The Esmeralda *Union* says that the Blind Springs district is still attracting considerable attention and capital, and if the production of rich ore and bullion are any indication of a good mining camp, we shall certainly have to pronounce it good. Mr. Williams, one of the proprietors of the Diana ledge, has shown the editor of the *Union* eight bars of bullion, weighing 130 pounds, which were extracted from about eight tons of their third class ore. They are shipping their first and second-class ore, as they can get more advance upon it than they would be likely to get out themselves. The above bullion is the proceeds of a two-weeks' run of a small mill, requiring four men's labor, and propelled by water-power.

The same paper learns from Mr. Pope, the superintendent of the Wide West, that the shaft has attained 320 feet from the surface. He also states that the company are in good cheer, and is bound to see if there is not something in store for them.

The Citizens' Prospecting shaft has attained a depth of 275 feet from the surface, and is being pushed forward with energy.

Copper Shipments.—The *Prices Current* of this city says that our shipments of copper ore continue to be liberal—far in excess of any previous year. Upwards of 16,000 tons have been sent this year from the interior for exportation to the Atlantic and elsewhere—giving employment to numerous vessels destined to New York, Boston and Swansea; yet the export of this article is but in its infancy. The copper ore interest of the coast promises to be more valuable and important than that of our quicksilver mines. Of the former, the world's consumption will probably keep pace with the increased supply, while of quicksilver the demand is restricted, and the markets open to us are easily supplied, and it requires good management on the part of producers to regulate shipments so as to keep prices as uniform as possible. It is true, that our exports thus far during the year show a slight increase over those of 1864. But it is the policy of the New Almaden Company to keep their exports of quicksilver so distributed as to prevent any material fluctuation in value.

The Golden Gate Treasure.—The pilot boat Petrel, in charge of T. J. L. Smiley, started on Monday last for Manzanillo, from which place they are to proceed to the spot where the mail steamship Golden Gate was wrecked, for the purpose of recovering, if possible, the remaining portion of the treasure sunken in that vessel. The amount submerged is between two hundred and fifty and three hundred thousand dollars.

The Etna Company's Mill.

One of the institutions of the county, and one engaging a large share of attention from the community, is the establishment, known as Stevenson's Mill—just completed, for the Etna company. The company has a ledge in Prince Royal which yields fine ore. Two or three tons of the ore, sacked, stand at the mill, ready for the stamps. Stevenson, finding that the ledge would not yield pay ore in such quantities as would keep the mill constantly employed, and finding opportunity to make good terms for a wider ledge, arranged for a section of the Montana, and procured a mill-site at a point on the river convenient for working ores from the districts now yielding the largest supplies.

He procured the services of an engineer highly recommended by San Francisco machinists, Morgan Hungerford, and gave him carte blanche for a run of the San Francisco foundries—with instructions to get up the best ten-stamp quartz mill and steam engine that the foundries could turn out. Judging by the appearance of the machinery at work, and by the unanimous verdict of those who undertake to be judges of such matters, Hungerford has come up fully to Stevenson's requirements. We have heard no one suggest an improvement in any part. After getting the castings out, Hungerford has had entire superintendence in putting the parts in place—planned the building, the masonry, and superintended the carpenter and other work. The McBeth boys, well known as accomplished workmen, did the mason work, and are now building a stone dwelling for Stevenson.

The mill is driven by a forty-horse power engine, with 12-inch cylinder of 24-inch stroke. The boiler is 44 inches by 16 feet—44 three-inch flues. The furnace has several new features, passing the flame three times throughout the length of the flues, thus avoiding waste of heat. The steam chamber is supplied with a cut off, by which the steam can be compressed so as to work with little or great sweep, as may be desired.

The reduction works consist of a ten-stamp battery, with all late improvements in guiders and cams; excellent arrangements for feeding and discharge; four of Varney's pans, and two of Varney's large settlers; then to capture and detain such particles as might escape the pans, two of Prater's concentrators have been introduced, through which all the tailings pass. These latter are a feature we have not seen in any other mill. They go with a jerk and back jerk, somewhat in the style of a pan in the hands of a gold miner. The particles saved by the concentrators will be kept for roasting.

The arrangement of the gearing is the best we have ever seen. A man can go erect throughout the entire length of the shaft which drives the battery, the pans, the settlers, and the concentrators. Can be free from all danger of accidents while oiling or otherwise attending the machinery, while in motion. Another convenient arrangement is levers, extending up through the platform which covers the shaft, by working which the miller starts or stops any single pan, settler, or concentrator, at will, with a very light tax of muscle.

A 4-inch pump, discharges the same as the draft, thus obviating friction, is worked by the engine, and supplies water to a large cistern, from which it is carried to the boiler, and in iron pipes to all parts of the mill. Steam is carried in like manner from the boiler to the pans and settlers.

All these works are covered by a fine frame building, 51 by 54 feet, on the ground; the building sitting on a succession of benches in the bank, cut out to suit the several levels wanted for the successive processes through which the ore goes down. From an upper-side view, the mill is an unpretentious establishment—just high enough above the bank to get shed for the feed floor and battery. From the Arabia side it looms to a three-story building. Stevenson has excercised good judgment, and the whole work is a standing testimony to the ability of Mr. Hungerford, the accomplished engineer. Everything is in order, and the battery will be put in motion next Monday. *Humboldt Register.*

Decline of Nantucket.—A letter from Nantucket says: "The grass grows in the middle of streets that once echoed to the busy feet of trade. Vast edifices—sperm candle manufactories, oil cellars, ship chandlers' stores—are abandoned to the mercy of the elements. Whole blocks and rows of buildings are deserted. It seems as if the soul that once tenanted it had taken its flight, leaving only a poor mockery of life behind it. Its population has dwindled down to one-half its former number. Nearly all its young men seek their fortunes in more promising fields of enterprise."

H. W. Waite, of Grass Valley, is about to commence the publication of a daily paper at Colfax, Placer county.

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, November 4th, 1865.

A more active demand prevails for moncy in Bank and upon the street, but the requirement is not yet of sufficient urgency to materially affect current rates of interest for acceptable securities, nr to impede the negotiatione nf parties in good credit. Without any appearance of stringency, there is an evident tendency to a higher rauge of quotations for money. The deposits iu the different banking institutions of this city do not probably exceed $5,000,000 at this time, as against $8,000,000 in available cash means on hand August 1st, and the amount under discount now is said to be larger than it has been for months past.

The aggregate receipts of Treasurc, from all sources, during the month of October, amounted to $4,250,000, and since the first iustant some $500,000 has been received.

A good demand is likely to prevail for hullion in a day or two, but the rates thus far have showu little or uo variation from last week, and gold bars are selling at 850@860 for average grades. Silver may be be quoted at par to ¼ ℘ cent premium.

The mining share market has exhibited little or no vitality this week. Transactious at the Board have been much lighter than usual, and were chiefly coufined to a few leading stocks, in which operations have been made from day to day without much regard to the character of advices from Nevada. The aggregate yield of all the mines on the Cometock, including Gold Hill proper, proves, during the past month, to be larger than was anticipated, and exceeded $1,075,000. There is likely to he a larger bullion product thie month, from all that we can learn, and a number of claims hitherto heavily in debt will probably soon be in a condition to cancel a very considerable portion of their liabilities. Expenditures have been made without etint during the past three or four months, not only for timber, supplies, etc., for tbe winter, but in the development of new bodies of ore, for the purchase of mills and machinery of all kinds, in sinking new and expensive shafts, etc., etc. Notwithstandiug all tbese extraordinary disbursemente, tbe aggregate debt of the leading claims dealt in at the Board is less than it was in June last, without regard to the asseessmente paid since then. With scarce an exception all ore-producing mines have of late been making some money over and above ordinary expenses, and now that their extraordinary expenditures are to be materially less than for some time past, we may confidcutly expect their affairs to assume a better shape at no distant day. As to the quantity of ore disclosed at this time, in the lower levels of leading miues, some contend that it will compare favorably with any former period since May last; while others maintain that there is now lese ore in sight than thcre has been for months past.

Alpha met with trifling sales at $925, aud is now offered at $900, buycr 30. Advices from this claim speak of some improvement in the lower level, from which portion of the mine good ore can soon be taken. Gould & Curry rose from $975 to $1,025, and then sold at $1,000, closing at $1,050 asked.

Yellow Jacket has shown rather more eteadiness, without any improvement, however, advanciug from $760 to $825, buyer 30, then selling at $742½, and closing at $740. During the week ending October 23d, 10½ tons first class aud 1,334 tons secoud clase ores were extracted from tbe miue. In the eame period 1,334 tons second class ores were reduced (879 tons at outside mills and 455 tons at the company's mill), yielding in the aggregate $37,701, or an average of $28.25 per ton from partial returns. An accident last week to the steam power of the Morgan mill has sinco then reduced its crushing capacity from 90 to 30 tons per day, but the necessary repairs will be completed in a few days.

Savage has been less active, and 20 feet were sold within a range of $775@825, closing at $802½. Receipts of bullion last month amounted to $137,000—an increase of $40,500 over the month of September, and the financial affairs of this company will probably soon ehow a material improvement. In the fifth level a width of 35 feet bae been breaeted out. The east corner contains a very rich streak of ore, and the west end also looks well. Throughout the drift 40 feet acroes the Potosi chimney the ore ie thought to compare favorably with tbe body breasted out. Late crushings of ore from tbis mine average about $39 per tou.

Crown Point has been very inactive and dull at $800@725, closing at $710 bid. At a depth of 20 feet below the 230-feet level, the west stratum is turning out eome good ore, and above the 160-feet level, in drifting south a ledge of fair cre 3 feet iu width has been disclosed.

Belcher rose from $480 to $550, receded to $470, and sold yesterday at $450.

Ophir continues to be well maintained, in view of the decliue in other stocks, and 100 feet were dealt in, advancing from $385 to $425, receding to $412½, rallying to $425, aud closing yesterday at $380. From the 15th to the 29th of October, 970 tons of ore were sent to the Woodworth mill, which will yield somc $28,000 net; and during the same period 108 tons, worth about $10,000, were delivered at tbe Washoe mill, nearly all of which was taken from the fourth gallery of the south miue. Owing to an accident to the Woodworth mill, receipte of bullion were light last montb, and amounted to less than $20,000. The eouth drift from the Mexican shaft, in the ninth gallery, is now underway again, and preparations are being made to drift east also at the same depth. It is rumored that a new adjustment with the Moecow gives to the Opbir company 2,700 shares stock at $15 per share, togetber with 800 feet of ground in the former claim, leaving 1,400 shares of stock, and the balance of the ground in litigation, to the Burning Moscow company.

Chollar receded from $395 to $375@$370, and sold yesterday at $335@340. Potosi rose from $350 to $375, cash, and $380, buyer 30, dropped to $338½, then sold at 320, and closed at $328. Advices from these mines are regarded with favor by those who seem to be well informed as to their real condition. Duriog the week ending October 27th, 412 tons of ore were seut to custom mills, yielding $38 @$40 per tou, lees $17 per ton for hauling and reduction. In the same week 350 tons of ore were sold at $8, and 10 tons at $35 per ton. In the Potosi ground, the Grass Valley station is eaid to look well, and the drift from the Bajazette level, running north, continues in good ore. In drifting eouth from the fifth etation a emall body of "splendid black sulphuret ore" has beeu met with this week. The Grass Valley station of the Chollar mine shows considerable improvement, and is now paying better than any other portion of the claim. In the old workings between the third and fourth stations, the southeast drift bas been driven tbrough to the east eide of the ore limit, and discloses a larger body than was thought to exiet at that point. Tbc new ehaft has been timbered to a depth of 475 feet, and a drift will be started at once.

Hale & Norcross has been sold within a range of $300@$260, closing at $260. Empire Mill and Mining company advanced from $170 to $182, and closed at about $155. From the upper levels of the north and south mine somo good ore has been taken recently, and preparations are being made to sink still deeper from the 600-feet level. Overman has been sold within a range of $88@72, closing at $74.

Imperial fell from $192 to $185, rallied to $187½, receded to $170, then sold $175, and closed yesterday at $172½. The last "clean up" from the company's two mills shows a decided improvement in the ore reduced recently, and yielded $46.000, making the aggregate receipts since 10th of Oct. (including balance of $21,000 then on hand)—about $118,000. During the month of October, extraordinary disbursemeuts, amounting to $25,000, were made in payment of taxes, supplies purchased some time since, and the first installment due on account of tbeir new mill, but tbe regular dividend will be declared to-day, leaving a surplus in tbe treasury of the company. The entire expenses for the current month will probably not exceed $60,000, and with the addition of tbe Lindauer mill, larger receipts may be anticipated than in October. A full month's reserve of ore bas been accmluated at the Rock Point mill.

Fluctuations in Leading Mining Shares for the past Six Months.

Name of Company.	April 10th.	April 20th.	May 1st.	May 10th.	May 20th	June 1st.	June 10th.	June 20th.	July 1st.	July 10th.	July 20th.	July 30th.	August 10th.	August 20th.	Sept. 1st.	Sept. 10th.	Sept. 20th.	Oct. 1st.
Gould & Curry.....per ft.	2,015	1,975	1,800	1,480	1,660	1,625	1,625	1,645	1,750	1,750	1,730	1,500	1,500	1,475	1,135	1,300	1,240	1,250
Ophir.....	590	560	500	490	550	485	480	500	495	485	530	425	400	390	280	385	415	340
Savage.....	2,025	2,020	1,600	1,376	1,300	1,190	1,150	1,425	1,375	1,400	1,310	1,175	1,220	1,300	1,300	1,225	1,215	1,225
Potosi.....	915	870	750	425	337	202	312	467	332	350	395	480	465	460	440	420	410	472
Chollar.....	942	830	650	425	375	215	317	473	345	370	410	500	490	504	476	455	420	500
Hale & Norcross.....	625	600	480	400	455	440	400	650	560	555	570	525	520	510	480	530	550	750
Sheba.....	....	30	28	....	20	18	16	18	....	....	....	....	....	....	....	....	....	....
Daney.....	15	....	20	....	22	15	15	15	14	....	14	....	50	70	43	40	40	35
Wide West.....	17	16	10	9	7	5	4	3	7	3	5	....	....	....	....	....	....	16
Burning Moscow.....	38	50	47	41	45	40	46	57	34	29	25	29	25	34	23	20	5	....
Pride of the West.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bullion.....	135	151	150	155	152	135	130	165	149	176	180	175	157	175	160	....	125	126
Real del Monte.....	14	....	....	....	....	12	10	....	....	....	....	....	....	....	....	....	....	....
El Dorado.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Overman.....	325	300	245	240	180	115	100	120	180	342	305	200	241	213	190	135	170	178
Sierra Nevada.....	26	22	16	17	14	13	12	14	15	10	14	25	20	18	19	22	21	17
Yellow Jacket.....	2,500	2,400	2,070	1,515	1,550	1,400	1,320	1,150	1,090	1,015	1,105	1,220	1,350	1,355	1,420	1,460	1,405	1,345
White & Murphy.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sides.....	....	....	....	....	....	....	....	....	....	75	60	....	....	....	....	185	....	....
Uncle Sam.....	320	285	250	245	200	115	100	155	185	345	307	190	240	215	193	....	....	....
Belle.....	15	....	....	....	....	....	....	....	....	20	16	....	....	....	....	....	....	....
North American.....	34	....	30	....	25	30	28	25	23	35	42	35	30	29	24	16	....	....
Baltimore American.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Melones.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Antelope.....	23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Napoleon.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sacramento.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Utah.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lady Bryan.....	....	....	....	....	....	....	....	....	....	6	6	....	6	3	....	....	....	....
Imperial.....	213	205	285	282	235	139	175	217	258	245	218	227	230	255	252	25	221	232
Growu Point.....	1,360	1,170	1,000	1,000	885	725	730	750	765	800	910	905	990	1,250	1,120	1,115	1,150	1,130
Belcher.....	1,800	1,620	1,210	1,200	1,105	925	620	695	780	775	850	805	860	865	875	900	910	875
Alpha.....									1,450	1,400	1,470	....	1,425	1,500	1,925	1,950	2,100	2,200

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, October 28.

1 sh Savage at 008 per foot, s 10.
1 sh Savage at 825 per foot, b 30.
3 shs Savage at 800 per foot, b 30.
2 shs Savage at 775 per foot.
20 shs Cbollar at 395 per foot.
4 shs Chollar nt 392½ per foot.
4 shs Chollar at 390 per foot.
20 shs Chollar at 395 per foot, b 30.
1 sh Yellow Jacket at 760 per foot.
3 shs Yellow Jacket at 780 per foot.
2 shs Yellow Jacket at 800 per sharo, cash.
1 sh Yellow Jacket at 770 per share, s 10.
5 shs Yellow Jacket at 800 per foot, b 30.
5 shs Yellow Jacket at 775 per foot.
1 shs Yellow Jacket at 760 per foot, s 30.
2 shs Yellow Jacket at 770 per foot. s 30.
1 sh Yellow Jacket at 780 per foot, s 3.
1 sh Yellow Jacket at 780 per foot, s 10.
3 shs Belcher at 480 per foot.
3 shs Belcher at 490 per foot.
3 shs Belcher at 495 per foot.
12 shs Ophir at 425 per foot.
24 shs Ophir at 410 per foot, s 5.
12 shs Ophir at 415 per foot.
36 shs Ophir at 420 per foot.
12 shs Ophir at 420 per foot, s 3.
24 shs Ophir at 421 per foot, s 5.
10 sbs Overman at 97½ per foot, b 30.
2 shs Overman at 93 per foot.
10 shs Overman at 98 per foot, b 30.
1 sh Overman nt 94 per foot.
2 shs Overman at 95 per foot.
52 shs Daney at 15 per foot.
120 shs Daney nt 14 per foot.
50 shs Imperial at 192½ per share, s 3.
20 shs Imperial at 192½ per sharo.
20 shs Imperial at 192½ per share, s 3.
20 shs Imperial at 192½ per share.
10 shs Imperial at 192½ per share, s 5.
5 shs Imperial at 180 per share, s 30.
40 shs Imperial at 192 per share.
5 shs Imperial at 194 per share, b 10.
10 shs Imperial at 191 per share, s 10.
10 shs Imperial at 191 per share, s 5.
5 shs Empire M & M Co. at 175 p. sh, s 3.
3 shs Empire M & M Co. at 175 per sh, b 5.
10 shs Empire M & M Co. nt 189 per share.
2 shs Confidence at 82½ per share.
4 shs Confidence at 77½ per share.
7 shs De Soto at 6 per share.
70 shs S F Gas Co at 000 per cent.
100 shs State Telegraph at 27 per cent, s 10.
$ 1,500 U. S. 7-30 Bonds at 71¾ per cent.
Amount of sales.....$ 98,638 00
No afternoon session.

Monday, October 30.

60 shs Ophir at 405 per foot, b 10.
24 shs Ophir at 410 per foot.
12 shs Ophir at 410 per foot, r w.
36 shs Ophir nt 405 per foot.
12 shs Ophir at 410 per share, b 3.
12 shs Ophir at 406 per foot, r w.
24 shs Ophir at 407½ per foot.
36 shs Ophir at 410 per foot, b 10.
24 shs Ophir at 405 per foot, r w.
60 shs Ophir at 412 per foot, b 30.
60 shs Ophir at 410 per foot, b 15.
40 shs Chollar at 395 per foot, b 30.
20 shs Chollar at 390 per foot, b 30.
20 shs Chollar at 376 per foot.
2 shs Potosi at 356 per foot.
4 shs Potosi at 350 per foot.
5 shs Overman at 92¼ per foot.
6 shs Overman at 92 per foot.
1 sh Overman at 92 per share, r w.
2 shs Overman at 92½ per share, r w.
4 shs Alpha, G. H., nt 1025 per foot.
3 shs Belcher at 550 per foot.
6 shs Belcher at 550 per foot, r w
3 shs Belcher at 500 per foot.
2 shs Gould & Curry at 975 per foot.
1 sh Yellow Jacket at 780 per share.
1 sh Yellow Jacket nt 775 per foot.
2 shs Yellow Jacket at 770 per foot.
1 sh Yellow Jacket at 765 per toot, s 3.
1 sh Yellow Jacket at 765 per foot
1 sb Yellow Jacket at 760 per foot.
25 shs Imperial at 190 per share.
5 shs Imperial at 190 per share, b 5.
53 shs Imperial at 190 per share, b 3.
5 shs Imperial at 191 per share. b 5.
15 shs Imperial at 190 per share, r w.
5 shs Empire Mill & Mining Co. at 82½.
2 shs Empire M & M Co at 180 per share.
5 shs Bullion at 72½ per share.
5 shs Bullion at 75 per share.
5 shs Bullion at 75 per share, r w.
5 shs De Soto at 6 per share.
40 shs De Soto at 6 per share, s 10.
30 shs De Soto at 5 per share, b 10.
5 shs Exchequer, at 16 per share
30 shs N. American, Ex Sam, at 16 per sh.
75 shs N B & Mission R R at 50 per cent.
25 shs Omuibus R R at 45 per share.
100 shs Spring Valley W W, at 53¾ per cent
5 shs Cal S Nav Co at 74½ per cent, s 30.
5 shs Cal. Steam Nav. Co. at 76 p ct., s 3.

AFTERNOON SESSION.

8 shs Chollar at 390 per foot, b 30.
32 shs Chollar at 390 per foot.
15 shs Cbollar at 385 per foot.
4 shs Crown Point at 800 per foot, b 3.
4 shs Hale & Norcross at 300 per foot.
2 shs Hale & Norcross at 300 per foot, b 30.
5 shs Hale & Norcross at 295 per foot.
2 shs Hale & Narcross at 300 per foot, b 3.
2 shs Hale & Norcross at 300 per foot, r w.
10 shs Potosi at 375 per foot, b 30.
36 shs Potosi at 365 per share.
6 shs Potosi at 370 per foot.
6 shs Potosi at 380 per foot, b 15.
10 shs Potosi at 380 per toot, b 10.
10 shs Potosi at 382½ per foot, b 15.
2 shs Potosi at 375 per toot.
10 shs Potosi at 385 per foot, b 30.
9 shs Belcher at 550 per toot.
3 shs Belcher at 550 per foot, b 5.
1 sh Yellow Jacket at 780 per foot, r w.
12 shs Ophir at 400 per foot.
12 shs Ophir at 402½ per foot, r w.
12 shs Ophir at 405 per foot.
4 shs Gould & Curry at 1010 per foot, r w
5 shs Imperial at 190 per share.
5 shs Imperial at 185 per share, s 5.
15 shs Imperial at 185 per share.
15 shs Imperial at 185 per share, s 3.
10 shs Imperial at 187½ per share.
5 shs Imperial at 186 per sharo.
3 shs Imperial at 186 per share, s 3.
20 shs Exchequer at 15 per share.
30 shs Exchequer at 15 per share s 3.
120 shs State Telegraph at 27 per cent.
14 shs Cal S Nav Co at 75 per cent.
5 shs Cal. Steam Nav. Co. at 74 p ct, s 30.
Amount of sales.....$118,624 00

Tuesday, October 31.

24 shs Ophir at 405 per foot.
12 shs Ophir at 405 per foot, r w.
13 shs Ophir at 407½ per foot, s 3.
14 shs Ophir at 401 per foot, r w.
24 shs Ophir at 615 per share, b 30.
4 shs Gould & Curry at 1000 per foot, s 30.
12 shs Gould & Curry at 1010 per foot.
3 shs Overman at 93½ per share.
1 sh Overman at 95 per foot.
4 shs Yellow Jacket at 790 per foot.
1 sh Yellow Jacket at 800 per foot, b 10.
1 sh Yellow Jacket at 785 per sh, r w.
1 shs Yellow Jacket at 875 per foot.
2 shs Yellow Jacket at 800 per foot.
40 sbs Daney at 14½ per foot.
4 shs Savage at 780 per foot, s 30.
1 sh Savage at 795 per foot, r w.
3 shs Belcher at 550 per foot, b 10.
6 shs Belcher at 540 per foot.
9 shs Belcher at 535 per foot.
3 shs Belcher at 535 per foot, r w.
3 shs Belcher at 540 per foot, r w.
10 shs Potosi at 372 per toot.
2 shs Potosi at 367½ per foot.
10 shs Potosi at 365 per foot.
10 shs Potosi at 380 per foot, b 30.
5 shs Empire M. & M. Co. at 182½ per sh.
17 shs Imperial at 184 per share, r w.
9 shs Imperial at 184 per sharo.
10 shs Imperial at 183 per sharo.
5 shs Imperial at 182¼ per share, s 3.
10 shs Imperial at 182¼ per share, r w.
5 shs Imperial at 183¼ per share, b 30.
10 shs Imperial at 181 per share, s 30.
6 shs Imperial at 180 per share, s 30.
5 shs Bullion at 70 per share.
10 shs Bullion at 67½ per share.
5 shs Bullion at 62½ per share.
5 shs Cal Steam Nav Co at 74½ per cent.
50 shs Spring Valley W W at 52¾ per ct, s 3.

AFTERNOON SESSION.

3 shs Belcher at 525 per foot, s 5.
3 shs Belcher at 525 per foot.
9 shs Belcher at 800 per foot, s 10.
3 shs Belcher at 510 per foot.
3 shs Belcher at 500 per foot, r w.
5 shs Overman at 95 per foot.
36 shs Ophir at 412½ per foot, r w.
36 shs Ophir at 410 per share.
12 shs Ophir at 410 per share, r w.
60 shs Ophir at 410 per foot. b 3,
4 shs Crown Point at 772 per foot, s 3.
1 sh Savage at 825 per foot, b 30.
5 shs Confidence at 65 per share, r w.
5 shs Confidence at 65 per share.
10 shs Imperial at 185 per share, r w.
105 shs Imperial at 185 per shnre.
5 shs Imperial at 186 per share.
20 shs De Soto at 5½ per share, s 10.
20 shs De Soto nt 5 per share, s 10.
1 sh Empire M & M Co. at 180 per share.
5 sh Cal Steam Nav Co nt 74 per ct, s 30.
$ 5,000 Legal Tender Notes at 70¾ per cent.
$ 3,000 Legal Tender Notes at 70¾, r w.
Amount of sales.....$122,632 00

Wednesday, November 1.

8 shs Chollar at 375 per foot, s 10.
12 shs Chollar at 376 per foot, s 3.
40 shs Chollar at 375 per foot, b 5.
16 shs Chollar at 375 per foot, b 3.
10 shs Potosi at 370 per foot, b 15.
2 shs Potosi at 370 per foot, b 30.
12 shs Potosi at 355 per foot.
3 shs Belcher at 485 per foot, s 10.
1 sh Yellow Jacket at 800 per foot, r w
3 shs Yellow Jacket at 800 per foot.

3 shs Yellow Jacket at 825 per foot, b 30.
2 shs Yellow Jacket at 795 per foot.
5 shs Yellow Jacket at 790 per foot.
1 sh Yellow Jacket at 785 per foot.
1 sh Yellow Jacket at 780 per foot, s 10.
1 sh Yellow Jacket at 775 per foot, s 10.
2 shs Yellow Jacket at 750 per foot, r w.
2 shs Yellow Jacket at 800 per foot, h 30.
1 sh Yellow Jacket at 775 per foot.
1 sh Yellow Jacket at 780 per foot, h 10
1 sh Savage at 800 per foot.
1 sh Savage at 825 per foot, b 30.
12 shs Ophir at 422½ per foot.
12 shs Ophir at 425 per foot, h 3.
60 shs Ophir at 425 per foot.
2 shs Hale & Norcross at 305 per foot.
10 shs Overman at 92½ per foot.
5 shs Overman at 93 per share, r w.
5 shs Overman at 92¾ per foot, s 3.
5 sh Imperial at 187¾ per share.
10 shs Imperial at 186 per share.
5 shs Imperial at 185 per share, s 10.
20 shs Imperial at 186 per share, s 3.
5 shs Imperial at 184 per share, s 30.
5 shs Imperial at 185 per share, s 3.
10 shs Imperial at 183 per share, s 30.
5 shs Imperial at 182½ per share, s 30.
10 shs Imperial at 186 per shre, r w.
30 shs Imperial at 187½ per share, h 10.
5 shs Imperial at 186 per share, h 3.
20 shs Imperial at 185 per share, s 5.
10 shs Imperial at 180 per share, s 30.
8 shs Imperial at 184 per share, s 3.
2 shs Imperial at 185 per share.
5 shs Imperial at 183 per share.
9 shs Sierra Nevada at 10 per share.
20 shs Exchequer at 15 per share, s 3.
2 shs Confidence at 70 per share.
5 shs Bullion at 61 per share, r w.
10 shs Bullion at 62 per share, r w.
98 shs State Telegraph at 27¾ per share.
$ 7,500 Legal Tender Notes at 70¾ per cent.

AFTERNOON SESSION.

8 shs Chollar at 375 per foot.
1 sh Savage at 800 per foot, s 3.
1 sh Savage at 800 per foot.
5 shs Overman at 94 per toot.
5 shs Overman at 90 per share, s 30.
13 shs Overman at 95 per foot.
4 shs Potosi at 355 per foot.
10 shs Potosi at 350 per foot, s 30.
26 shs Potosi at 350 per foot.
6 shs Potosi at 350 per foot, r w.
8 shs Gould & Curry at 1015 per foot.
4 shs Gould & Curry at 1010 per foot, s 30.
11 shs Imperial at 183 per share.
5 shs Imperial at 184 per share.
Amount of sales.....$132,410 00

Thursday, November 2.

4 shs Gould & Curry at 1050 per foot, at 50.
20 shs Chollar at 370 per foot.
2 shs Hale & Norcross at 300 per foot.
2 shs Chollar at 295 per foot.
4 shs Chollar at 290 per foot.
2 shs Chollar at 305 per foot, b 30.
2 shs Chollar at 300 per foot, h 30.
2 shs Chollar at 290 per foot, s 30.
1 sh Savage at 795 per foot, s 5.
1 sh Savage at 820 per foot, b 30.
2 shs Yellow Jacket at 770 per share.
1 sh Yellow Jacket at 760 per foot, s 5.
1 shs Yellow Jacket at 760 per foot.
1 sh Yellow Jacket at 750 per foot, s 3.
4 shs Potosi at 342½ per foot, r w.
4 shs Crown Point at 740 per share, r W
4 shs Alpha, G. H., at 1000 per foot, s 30.
4 shs Alpha, G. H., at 1010 per foot, b 30.
20 shs Daney at 10 per share.
40 shs Daney at 9 per foot.
12 shs Ophir at 410 per foot.
5 shs Imperial at 182½ per share.
15 shs Imperial at 182½ per share, r w.
7 shs Imperial at 181 per share.
55 shs Imperial at 180 per share, r w.
15 shs Imperial at 181 per share, b 10.
5 shs Imperial at 179½ per share, s 3.
5 shs Imperial at 180 per share, h 10.
5 shs Imperial at 177½ per share, s 10.
5 shs Imperial at 175 per share, s 30.
10 shs Imperial at 177½ per share, s 30.
2 shs Imperial at 180 per share.
5 shs Imperial at 180 per share, b 10.
5 shs Imperial at 183 per share, b 30.
20 shs De Soto at 5 per share, s 10.
5 shs Overman at 93 per share.
5 shs Overman at 92 per foot, r w.
5 shs Overman at 93 per share, h10.
8 shs Overman at 90 per foot.
15 shs Overman at 90 per share, r w.
10 shs Bullion at 62½ per share, r w.
5 shs Bullion at 62½ per sharo.

AFTERNOON SESSION.

5 shs Chollar-Potosi at 510 per foot, b 3.
1 sh Yellow Jacket at 742 per foot, b 30.
4 shs Crown Point at 750 per foot.
4 shs Crown Point at 760 per foot.
4 shs Crown Point at 755 per foot.
4 shs Crown Point at 750 per foot.
12 shs Crown Point at 740 per foot.
3 shs Belcher at 475 per foot.
3 shs Belcher at 475 per foot.
3 shs Belcher at 480 per foot.
24 shs Potosi at 330 per toot.
10 shs Potosi at 332½ per foot.
2 shs Potosi at 320 per foot, s 3.
4 shs Potosi at 320 per toot,
10 shs Potosi at 322 per foot.
4 shs Potosi at 322 per foot, r w.
4 shs Alpha, G H, at 1000 per foot, b 30.
36 shs Ophir at 400 per foot.
12 shs Ophir at 400 per share, b 30.
6 shs Ophir at 395 per foot.
12 shs Ophir at 402½ per foot, b 30.
5 shs Imperial at 171 per share.
10 shs Imperial at 170 per share, r w.
10 shs Imperial at 170 per share, b 5.
5 shs Imperial at 170½ per share, h 10.
30 shs Imperial at 170 per share, r w.
5 shs Imperial at 165 per share, s 30.
5 shs Imperial at 170 per share.
6 shs Overman at 85 per foot.
5 shs Overman at 85 per share, s 3.
10 shs Confidence at 70 per share.
5 shs Confidence at 75 per share, s 30.
90 shs State Telegraph at 28¼ per cent.
Amount of sales.....$124,579 00

Friday, November 3.

5 shs Hale & Norcross at 270@275 per foot.
7 shs Yellow Jacket at 740@742½ per foot.
28 shs Overman at 77@75 per share.
8 shs Potosi at 342@340 per foot.
72 shs Ophir at 390@385 per foot.
7 shs Empire M & M Co. at 150 per share.
60 shs Imperial at 175@172 per share.
2 shs Savage at 790 per foot.
4 shs Crown Point at 725 per foot.
25 shs Bullion at 63 per share.
1 sh Cal Steam Nav Co at 750 per share,

AFTERNOON SESSION.

20 shs Chollar-Potosi at 335@340 per foot.
1 sh Cal Steam Nav Co at 75 per share.
280 shs Daney at 7@5½ per foot.
8 shs Alpha, G H, at 920@900 per ft, b 30.
1 sh Empire M & M Co. at 155 per share.
75 shs Imperial at 171@172½ per sharo.
18 shs Overman at 74@73 per share.
3 shs Savage at 790@802½ per foot.
2 shs Hale & Norcross at 260 per foot.
23 shs Potosi at 320@328 per foot.
2 shs Ophir at 385@380 per foot.
Amount of sales.....$102,163 00

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends. Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Adams, Petroleum, Contra Costa co.,	$7.50.	Nov. 3—	Nov. 15
Astor, Storey co., Nev.,	$1.50	Nov 11—	Nov 27*
Arizona Copper, Arizona,	25c	Nov 25—	Dec 8
Altaville Quartz M Co		Annual Meeting,	Nov 6
Atlantic and Pacific		Special Meeting,	Dec 11
Roston, El Dorado co.,	50c	Nov 7—	Nov 21
Bolinas, Marin co.,	50c	Nov 4—	Nov 20*
Butte, Humboldt co.,	$1.50	Nov 15—	Nov 27
Bullion, Storey co., Nev		Salo,	Nov 9
Bunker Hill, El Dorado co.,	$1.50	Dec 1—	Dec 15
Cortez, Lander co., Nev.,	$2	Oct 18—	Nov 10
Comet, Petroleum, Humboldt co,	30c	Nov 18—	Dec 4*
Colorado M. and M. co		Annual Meeting,	Nov 13*
Caledonia Tunnel		Annual Meeting,	Nov 13*
Chloride Ledge, Calaveras co.,	$1	Nov 18—	Dec 2*
Cosala, Sinaloa, Mex.,	$1	Nov 17—	Nov 30
Camargo, Lander co., Nev.,	$5	Nov 25—	Dec 9*
Confidence, Storey co., Nev		Annual Meeting,	Nov 10
Crown Lead		Stockholders' Meeting,	Nov 8
Chipionena, Sonora, Mex.,	$5	Dec 2—	Dec 16*
Diamond, Del Norte co.,	$2	Oct 19—	Nov 7
Daney, Lyon co., Nev.,	$1.50	Nov 6—	Nov 25
Evoca Cons., Del Norte co.,	50c	Nov 4—	Nov 20*
El Tesoro, La Paz, Lower California,	$1	Nov 16—	Nov 28
Emelia Guerrero, Mex.,	25c	Nov 25—	Dec 9*
Eagle, Amador co.,	75c	Nov 25—	Dec 14*
Elk Horn, Petroleum		Annual Meeting,	Nov 9
El Tesoro S M Co		Annual Meeting,	Nov 5
Exchequer, Storey co., Nev.,	$2	Nov 24—	Dec 9
Florida, Reese River, Nev.	$10	Oct 18—	Nov 4
Franco Americana, San Antonio, L. C.,	25c	Nov 21—	Dec 4
Florida, Reese River		Adjouraed Meeting,	Nov 1
George Washington, Alpine co.,	$1	Oct 21—	Nov 6*
Golden Rule, Dividend		Payable	Oct 20
Gold Canon Cons., Storey co., Nev.,	55c	Nov 6—	Nov 25
Gold Hill Tunnelling, Storey co., Nev.,	75c	Dec 5—	Dec 23
Honest Miner, Lander co.,	50c	Oct 28—	Nov 13*
Hanscom, Copper, Del Norte co	15c	Nov 11—	Nov 27*
Hale & Norcross, Storey co., Nev.,	$25	Nov 27—	Dec 11
Hornet, Lander co., Nov.,	50c	Oct 21—	Nov 21*
Hibernia, Arizona,	10c	Nov 25—	Dec 8
Imperial		Dividend	Payable Oct 10
Jewett, Storey co.,	$1	Nov 11—	Nov 25*
Josephine, Coso District,	$1	Oct 25—	Nov 9
Jefferson, Yuba co		Dividend	$15
Knox, Alpine co.,	40c	Nov 11—	Nov 25*
Kohler Bros., San Antonio, L C.		Special Meetiug	Nov 1
Keokuk, Contra Costa co.,	10c	Nov 18—	Dec 4*
London, Siskiyou co.,	50c.	Oct 30—	Nov 11
Lady Bell, Del Norte co.,	15c	Nov 2—	Nov 14
La Victorie, Mariposa co.,	$3	Nov 4—	Nov 20
Leon, Esmeralda co., Nov.,	35c	Nov 17—	Dec 18
Lady Bell C M Co		Adjourned Annual Meeting,	Nov 23
La Favorita, Sonora, Mex.,	50c	Nov 25—	Dec 9*
La Fernandez, Sonora, Mex.,	$5	Nov 23—	Dec 8
Libertad, Sonora, Mex.,	$5	Nov 21—	Dec 6
Mammoth, Alpine co.,	$1	Oct 28—	Nov 13*
Melones and Stanislaus, Calaveras co.,	$2 50.	Nov. 7—	Nov 20
Maria, Chihualiua, Mex.,	$1	Nov 18—	Dec 2*
Moss Ledge,	$5	Nov 30—	Dec 15
Mount Davidson, Storey co., Nev	$1	Dec 2—	Dec 20*
North American Tin, Mexico,	$1	Oct 14—	Nov 1
Nonpareil, Tuolumne co.,	$1	Oct 23—	Nov 6
Nuestra Senora de Guadalupe, Jalisco,	$6	Oct 16—	Nov 7
Nuestra Senora de Guadalupe, Durango,	70c.	Oct 21—	Nov 6
Ontario, Lander co.,	50c	Oct 21—	Nov 6*
Old Colony Lander co.	$6	Oct 14—	Nov 1*
Planet C M co		Meeting,	Nov 5
Porter, Butte co		Annual Meeting,	Nov 27
Oroville, Butte co.,	$1	Nov 18—	Dec 2*
Open Sesame		Annual Meeting,	Nov 14
Pizarro, Lander co.,	10c	Oct 21—	Nov 4*
Potosi, Storey co., Nev.,	$9.50	Nov 6—	Nov 20
Patrocina and Dolores		Annual Meeting	Nov 13
Porter, Butte co., Cal.,	$1	Nov 18—	Nov 30
Peninsula, San Antonio District, L. Cal.,	$10.	Nov 17—	Nov 30
Providential, Reese River		Annual Meeting,	Nov 8
Refugio, Chihuahua, Mex.,	$2 50	Nov 11—	Nov 23
Southern Light, Lander co.,	50c	Oct 28—	Nov 15*
Salambo, Tuolumne co.,	75c	Nov 6—	Nov 25
San Fernando, Petroleum		Adjourned Meeting,	Nov 6*
Sierra Valley, Plumas co.,	$1	Nov 13—	Nov 25
Salambo, Tuolumne co.,	75c	Nov 6—	Nov 25
St Louis, Reese River		Annual Meeting,	Nov 8
Santa Cruz, San Antonio, Lower Cal.,	$3	Nov 17—	Nov 29
Savage, Storey co., Nev.,	$100	Nov 28—	Dec 13
Santa Cruz, Petroleum,	40c	Nov 25—	Dec 14*
Segregated Belcher, Gold Hill,	$4	Nov 25—	Dec 9*
Sierra Valley		Annual Meeting,	Nov 13
San Francisco "Mono Ledge,"	$5	Nov 30—	Dec 15
Simpson, Alpine co.,	25c	Dec 2—	Dec 16*
Table Mountain, Calaveras co.,	50c	Dec 2—	Dec 18*
Wide West, Esmeralda co.,	$5	Nov 18—	Dec 4*
Wide West, Esmeralda, Nev.,	$5	Nov 6—	Nov 20
White & Murphy, Storey co., Nev.,	$5.50	Dec 4—	Dec 18
Yo Semite, Humboldt co., Nev.,	$1.25	Oct 21—	Nov 6*

*Those marked with an asterisk (*) are advertised in this journal.

ANOTHER LOCOMOTIVE.—The Vulcan Foundry has just turned out another handsome locomotive, destined for the Napa Valley Railroad.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Astor	Oct 12	1 00
California Consol M and M Co	Oct 17	1 00
Exchequer	O 14	2 00
Flowery Hill	Sept 27	2 00
Gold Canon	Oct. 5	55
Globe	Oct 18	1 00
Hale & Norcross	Oct 27	25 00
Imperial	Oct 23	50
Kennedy	Oct 19	12 50
Novada	Oct 5	7 00
Potosi	Oct 6	9 50
Peck	Oct 17	1 00
Sand Springs Salt	Oct 1	5 00
Savage	Oct 28	100 00
Segregated Belcher	Oct 28	4 00
Union (Peavine)	Oct 12	25
Utah	Oct 31	6 00

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale
American Flat Nevada	Nov 4	Virginia
Bullion	Nov 9	Virginia
Central Hawkeye	Nov 13	Gold Hill
De Groot	Oct 31	Virginia
Globe	Nov 16	Virginia
Keystone	Nov 21	Gold Hill
Kossuth	Dec 2	Virginia
Mount Blanc	Nov 3	Virginia
Mount Moriah & Lincoln	Nov 28	Gold Hill
North American	Nov 16	Virginia
Orleans Flat	Nov 24	Virginia
Schiller	Nov 21	Virginia
Sand Springs, Salt	Nov 30	Virginia

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	80@	87
do pickled ₱ lb	65@	75
do Oregon	50@	60
do New York, ₱ lb	40@	50
Cheese, ₱ lb	25@	35
Honey, ₱ lb	30@	40
Eggs, ₱ doz	@	70
Lard, ₱ lb	33@	
Hams and Bacon, ₱ lb	28@	30
Cranberries, ₱ gal	75@	1 00
Potatoes, sweet, ₱ lb	2@	5
do Irish, ₱ lb	1@	2½
Tomatoes, ₱ lb	5@	8
Onions, ₱ lb	6@	—
Apples, No. 1, ₱ lb	4@	10
Pears, table ₱ lb	3@	10
Plums, dried, ₱ lb	15@	25
Peaches, dried, ₱ lb	15@	25
Grapes, ₱ lb	5@	15
Oranges, ₱ doz	75@	1 00
Lemons, ₱ doz	1 50@	2 00
Chickens, apiece	62@	1 00

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 50 @	7 00
Do Superfine	6 00 @	6 50
Corn Meal, ₱ 100 lb	@	4 00
Wheat, ₱ 100 lb	1 80 @	2 00
Oats, choice, ₱ 100 lb	1 35 @	1 50
Barley, ₱ 100 lb	90@	1 05
Beans, ₱ 100 lb	3 2o@	3 40
Potatoes, ₱ 100 lb	75@	1 12
Hay, ₱ ton	10 00 @	15 00
Live Oak Wood, ₱ cord	8 00 @	10 00
Beef, on foot, ₱ lb	6@	7
Beef, extra, dressed, ₱ lb	12½@	15
Sheep, on foot	1 00 @	2 00
Hogs, on foot, ₱ lb	10 @	12
Hogs, dressed, ₱ lb	15 @	16

Groceries, Etc.

Sugar, crushed, ₱ lb	16½@	17
Do China	10 @	12½
Coffee, Costa Rica, ₱ lb	27½ @	30
Do Rio	27½ @	
Tea, Japau, ₱ lb	85 @	95
Do Green	70 @	90
Hawaiian Rice, ₱ lb	10 @	12
China do	8 @	10
Coal Oil, ₱ gal	1 60 @	1 65
Candles, ₱ lb	25 @	27
Ranch Butter, ₱ lb	55 @	70
Isthmus do	40 @	42
Cheese, California, ₱ lb	20 @	26
Eggs, ₱ doz	60 @	65
Lard, ₱ lb	28 @	30
Ham and Bacon, ₱ lb	28 @	30
Shoulders	20 @	22
Soap—Pale & C. O	15 @	
Castile	16 @	17

San Francisco Metal Market.

PRICES FOR INVOICES.

Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

SAN FRANCISCO, NOV. 4th, 1865.

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1½c ₱ lb; Sheet, polished, 3c ₱ lb, common, 1½@1¾c ₱ lb; Plate 1¼c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2¼c ₱ lb.

Scotch and English Pig ₱ ton	40	@—
American Pig ₱ ton	38	@40
Refined Bar, bad assortment, ₱ lb	2½	@—
Refined Bar, good assortment, ₱ lb	3¼	@—
Boiler No. 1 to 4	4	@ 4½
Plate No. 5 to 9	4½	@—
Sheet No. 10 to 13	4	@—
Sheet No. 14 to 20	5	@—
Sheet No. 24 to 27	5½	@—

COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb.

Sheathing ₱ lb	30	@32
Sheathing, Old	25	@35
Sheathing, Yell	30	@32
Sheathing, Old Yell	12	@12
Bolts	—	@—
Composition Nails	30	@32

TIN PLATES.—Duty: 2¼c ₱ lb.

Plates, Charcoal, IX ₱ box	10	@12
Plates, I C Charcoal	9	@10½
Roofing Plates	9	@ 10
Banca Tin Slabs, ₱ lb	41	@42½

STEEL.—English Cast Steel, ₱ lb 12½@16

QUICKSILVER.—Per lb @65

For export	55	@—

ZINC.—Sheets ₱ lb 9½@10

LEAD.—Pig ₱ lb 7 @ 8

Sheet	10	@12
Pipe	10	@12
Bar	9½	@10

San Francisco Stock and Exchange Board.

SAN FRANCISCO, November 4th, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ —	$ 14
Gov. Legal Tender Notes	69½	70
State Bonds, 7 ₱ cent	86½	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	70	..
San Francisco Bonds, 1858, 6 ₱ cent	65	..
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	60	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	77½
Butte County Bonds, 10 ₱ cent	..	80
California Navigation Co	74½	75
State Telegraph Stock	28	..
San Francisco Gas Co	99	..
Sacramento Gas Co	..	75
Spring Valley Water Co	50¾	51

RAILROADS.

Sacramento Valley Railroad	..	..
Omnibus Railroad	45	47
Central Railroad Co	..	..
North Beach and Mission	47	49

MINING STOCKS.

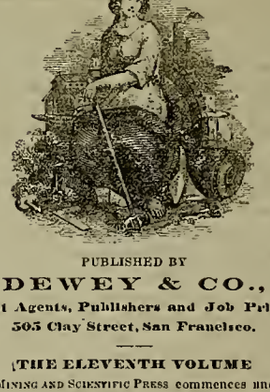
Ophir	$ 385	$ 300
Gould & Curry	1015	1050
Empire M. & M. Co	....	....
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	800	825
Chollar	365	370
Potosi	340	345
Hale & Norcross	270	275
White & Murphy	....	....
Sierra Nevada	9	10
Daney	..	..
Burning Moscow	..	..
Lady Bryan	..	..
Sacramento & Meredith	....	....
Burnside	....	....
Iowa	....	....
El Dorado	....	....
North American	....	....
Baltimore American	....	....
Yellow Jacket	740	750
Overman	75	76
Cedar Hill Tunnel	....	....
Wide West	2	4
Crown Point	710	720
Antelope	....	....
Emeralda	1	5
Ætna	....	....
Real del Monte	..	15
Silver Hill	....	....
Utah	....	....
Justis	..	..
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co	....	....
Melones and Stanislaus	....	....
Shebu	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H	70	75
Buckeye	....	....
Dick Sides	....	....
Imperial	192	193
Alpha	1000	1100
Bajazett	....	....

New Volume

— OF THE —

Mining and Scientific Press

Issued every Saturday. Each number contains 16 pages and 64 columns (size of Harper's Weekly).



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THE ELEVENTH VOLUME

Of the MINING AND SCIENTIFIC PRESS commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this journal may be anticipated by its numerous and rapidly increasing readers.

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DEWEY & CO., Publishers.

C. W. M. SMITH .....W. S. EWER.....A. T. DEWEY

Mechanical.

WORKING STEAM EXPANSIVELY.

Government has just spent about $30,000 at the Novelty Iron Works, New York, to determine whether any, and if any how much, advantage there is in working steam expansively. The experiment has proven a most excellent advertisement for the wealthy company which has furnished the facilities for carrying it out; besides affording a most profitable job to the same company. But the government is rich; it has plenty of money, and why should it economise. Now, if a private individual wished to ascertain the same thing, he would be very likely to go to some party who is running an engine to do a certain amount of work. He would make an arrangement by which the engineer should run one week with the throttle valve open, and regulated only by the links; and the next week he would have it work the steam expansively. A carefully kept fuel account would show the advantage, to all practical purposes, as well as the costly machinery prepared for this purpose at the Novelty Works. But then government never counts the cost; government don't have to work for its money; it taxes the people. Intelligent engineers knew long ago, by practical experience, that there was economy in working steam expansively. Government, however, has just found it out, at an expense of $30,000. It will be years, however, before red tape will allow it to be put in practice in government works. An engineer on the New Jersey railway, who used the half-stroke cut-off was asked, long before the government trial was instituted, how much he saved by working expansively. He replied: "When I run to Newark, without the cut-off, I burn three plump tiers of wood; but when I use the cut-off, I burn two." Will the costly government trial prove anything more practical?

To Stop Runaway Horses.—Mr. Rosenfield, formerly of the firm of Hutchings & Rosenfield, in this city, has invented an arrangement for preventing accidents or injuries by runaway horses. This invention, is called the "Safety Whippletres," and is so arranged that in case a horse or horses attempt to run away, the driver can, by pulling a strap, immediately set them free from the buggy or carriage, and thus prevent the possibility of any injury to the vehicle or its occupants. Though very simple, when examined, and very cheap, this invention, if used, will enable people to be as safe from accidents while they are riding as they are while walking.

Improvement in Mastic Roofing.—Messrs. Skinner, Duncan, and Merighi, of this city, have obtained Letters Patent through our Agency for a new combination for mastic roofing, the combination of which is such that it is said to be impervious to heat and cold, and is not easily subject to be attacked by fire. The rays of the sun having no effect upon it, the material will not run in summer and leave seams through which the water may leak during the autum and winter rains; neither does the cold crack it in winter so as to leave crevices through which the water may penetrate into the building. We cordially recommend this roofing to builders.

New Enameling Machine.—Mr. McEachren has received letters patent from the United States, through the Mining and Scientific Press Agency, for a new emaneling machine, for enameling moulding, which promise to be a great improvement over the old system. Mr. McEachren, with others, has lately started a manufactory for looking-glass and picture frames, on Fremont street in this city, where he has several of these machines in use. His claim is as follows: A movable bottom for raising the work or moulding up and out of the enamel or paste substantially as described; and in combination with the enameling baths, he claims the steam chamber for heating the bath and keeping it hot. He also claims the combination of the traveling carriage hopper, and enameling tool, all substantially as described and for the purpose set forth.

A New Method of Corking Bottles.—A gentleman named Woolaver, residing at Suisun, Solano county, has obtained patents for two new methods of corking bottles. The value of these inventions lies chiefly in the use of the bottle for holding champagne, soda water and effervescing liquids. The mouths of the bottle—for it has two—are in the sides of the neck, instead of the top, as in ordinary bottles. To draw out the contents of the bottle, a tube is used with a hole on the under side, a button being placed at each side; by lifting a lever the contents forces itself out at the opposite side, and by drawing the lever back the bottle is effectually closed.

The other device is simply a cork placed longitudinally with the neck of the bottle, and is opened by means of a pair of forceps, with a hole on the under side. With these forceps the cork is compressed till the tube enters far enough to admit of liquor passing through the hole in the tube, which passes it into the glass or vessel—the cork stopping the bottle as soon the pressure of the forceps is removed. These are simple and useful inventions. Applications for patents (which have been ordered to issue), were made through the Mining and Scientific Press Agency.

More about the Diamond Drill.

We have seen a trial of the diamond drill in blue flagstone. A core, 1¼ inches diameter and 10⅝ inches long, was cut out by it in four minutes. The hole made was 1⅞ inches diameter; the feed was at the rate of 56 turns to 1 inch. Another hole, 19¼ inches deep, was bored in 7½ minutes, the rate of feed being 78 turns to one inch. Another hole, 9¼ inches deep, was bored in 3½ minutes, at the same rate of feed. The boring averaged about 2.6 inches per minute. The company guarantee it to cut four inches per minute in North River bluestone, sandstone, marble, and slate, and two inches in granite and harder rocks. With the fast feed it would have been greater had there been more steam; all the steam came 50 feet, through a ¾ pipe, with several elbows. The core, which we brought away, is quite straight, and others that we saw appeared so; and the surface is very smooth. Holes bored in this way will be true, and smooth enough for first-rate stone-work; and drills may be made to cut holes and columns a foot or more in diameter, and of any length required.

The kerf cut is 5-16ths thick; and the power consumed is what is necessary to pulverize this amount of stone. Two men worked a drill about half as fast as it was worked by steam, showing that the power required is moderate; and a steam or compressed-air engine, of simple form, may be used.

The only question is. the durability of the diamonds. If the feed is violent, they may be broken; but when the feed is properly graduated they are not broken, and do not appear to be worn.

In France, where the invention originated, diamonds, set differently, are used to dress burr-stones; and it is claimed that they work more economically than the old tools.

The borers we have seen are made to set, with bayonet joints, on the ends of tubes. There are six diamonds in each; so set as to cut a kerf in which the metal can turn without touching. A stream of water runs in through the tube, and out around it, and washes out the *debris*.

It is claimed that the principle may be applied with advantage to sawing stone; and that very hard stones may be cut by the diamonds, as easily as marble. A chambering drill has been made on this principle, by which the hole at the bottom may be enlarged to twice the size of the main hole.—*American Artisan.*

Preparation for Preserving Leather. The Shoe and Leather Dealer's *Reporter*, good authority, gives the following receipt for a preparation to ensure great durability to leather, and to make it pliable and soft:

The preparation consists of four articles, tallow, soap, resin and water. These ingredients are prepared as follows: Twenty-one parts of tallow are melted in a vessel, three parts of rosin added, and the two when melted mixed well together. In another vessel seven parts of good washing soap are dissolved in seventy parts of pure rain water. After it is dissolved and the mass heated to the boiling point, we add the part prepared before, let it boil once more gently, and the preparation is ready for use. It is especially adapted to boots, harness leather and beltings.

A photographer of Cleveland, Ohio, is about to explore the Mammoth Cave of Kentucky for the purpose of taking views of its interior, by the aid of strong chemical lights.

Manufacture of Glass.

All writers on the subject of glass manufacture fail to show anything decisive upon the precise period of its invention. Some suppose it to have been invented before the flood. Nervi traces its antiquity to the time of Job.

The first glass houses, well authenticated, were erected in the city of Tyre. Modern writers upon the fact generally refer to Pliny in establishing the fact that the Phœnicians were the inventors of the art of glass-making. The tradition is that the art was originally brought to light under the following circumstances: A vessel being driven by a storm to take shelter at the mouth of the river Belus, the crew were obliged to remain there some length of time. In the process of cooking, a fire was made upon the ground, whereon was abundance of the herb "kale." That plant burning to ashes, the saline properties became incorporated with the sand. This causing vitrification, the compound now called glass was the result. The fact becoming known, the inhabitants of Tyre and Sidon essayed the work, and brought the new invention into practical use. This is the tradition; but modern science demonstrates the false philosophy, if not the incorrectness of Pliny's account; and modern manufacturers will readily detect the error, from the impossibility of melting silex and soda by the heat necessary for the ordinary boiling purposes.

It is a well-authenticated fact, however, that there were whole streets in Tyre entirely occupied by glass-works; and history makes no mention of any works of this character at an earlier period than the time mentioned by Pliny.

It was during the reign of Nero, so far as we can discover, that the first perfectly clear glass, resembling crystal, was manufactured. Pliny states that Nero, for two cups of ordinary size, with handles, gave 6,000 sestertia, equal in our currency to about £50,000; and that rich articles of glass were in such general use among the wealthy Romans as almost to supersede articles of gold and silver. It is not strange that the strict secrecy with which the business was conducted in the middle ages should have invested the art with an air of romance; and legends, probably invented for the purpose, created a maximum of wonder among the uninitiated. The Government of Venice also added, by its course, to the popular notions regarding the high mystery of the art, conferring, as it did, the title of "Gentleman" (no idle title in those days) on all who became accomplished in the manufacture. Howell, in his *Familiar Letters*, dated from Venice in 1621, says: "Not without reason, it being a rare kind of knowledge and chemistry, to transmute the dull bodies of dust and sand, for they are the only ingredients, to such pellucid, dainty body as we see crystal glass is."

A French writer, who published an elaborate work upon the subject of glass manufacture, after it had been introduced into France, gives an interesting account of the rise and progress of the art in that country, the encouragement it received, and the high estimation in which it was held. After stating that it was introduced in France from Venice, he says:

"The workmen who are employed in this noble art are gentlemen, for they admit none but such. They have obtained many large privileges, the principal whereof is to work themselves, without derogating from their nobility. Those who obtained these privileges first were gentlemen by birth; and their privilege running, that they may exercise this art without derogating from their nobility, as a sufficient proof of it, which has been confirmed by all our kings; and in all inquiries that have been made into counterfeit nobilities, never was any one attained who enjoyed these privileges, having always maintained their honor down to their posterity."

Baron Von Lowhen states, in his *Analysis of Nobility in its Origin*, that "so useful were the glass-makers at one period in Venice, and so considerable the revenue accruing to the republic from their manufacture, that to encourage the men engaged in it to remain in Murano, the Senate made them all burgesses of Venice, and allowed nobles to marry their daughters; whereas, if a nobleman marries the daughter of any other tradesman, the issue is not reputed noble."

Patent Office Reports for 1864.—The engravings for the Patent Office Reports for 1864, are rapidly approaching completion. They are being prepared by Messrs. E. R. Jewett & Co., of Buffalo, New York. The "line engravings" are said to be executed in the highest style of art, and under a patented process.

Nails made of wire of various sizes, from a ¼ of an inch down to 1-32d. are still used in France. The points are conical, about 60°. They may be driven without splitting the wood. A common pin, when driven into the edge of a thin piece of wood, splits it; but if the tapered point be cut off, and a conical point made, it may be driven without splitting. In making small models of soft wood, we have used steel pins with conical points, made of pieces of knitting needles. They drive well, and hold fully as well as brads. We believe that tapered nails are not so good, for some uses, as prismatic nails with pyramidal points would be; or perhaps wedge ends, for convenience of manufacture, would be better. They would not split the wood; the wedge point, if about 60°, would crush a little at a time, and make a hole for itself, whereas a long wedge or tapered point in its effort to crush a greater amount at a time, splits it; that is, the power required to crush so much is more than is required to split the piece. Let any one file the ends of parallel nails that he finds among common nails, and try them, and he will find that they will be safer to drive where there is danger of splitting. The French wire nail is expensive; but it is worth using for some purposes. For delicate work such nails, made of brass wire, with heads like screw heads without nicks, would be good. If a good machine could be invented to make nails of this kind cheaply, we think it might be worked with profit. But parallel cut nails with wedge points can be made cheaply, and we think a few should be tried.—*Amer. Artisan.*

Useful Invention.—Mr. B. M. Esterle of this city has invented a novel, simple, and apparently very effectual contrivance for enabling vehicles to cross railroad tracks, or to raise themselves out of a track when running in it, without danger of upsetting or straining the vehicle. It consists of a simple key or flange, from half an inch to an inch in width, and quarter of an inch or more in thickness, according to the weight of the vehicle, fastened to the rim of the wheel at each alternate spoke, on a level with the face of the tire. In turning out of a railroad track or crossing it diagonally the flange catches on the iron of the track and lifts the carriage out with scarcely a perceptible jolt or strain, and as quickly as the carriage could be turned on the pavement. The invention is exceedingly simple, and appears fully to answer the purpose for which it was intended. A caveat for the invention was sent on to Washington by the last steamer through the Mining and Scientific Press Patent Agency.

A New Invention.—We learn that I. S. Crall, the Superintendent of the American claim near Birchville, has invented a pan which it is claimed will surpass anything of the kind in use. It is something similar to the Baux & Guiod's pan, but works much faster, and at the same time saves machinery. The new invention is called the waltzing pan, and has, in addition to the circular motion of the shoes a shifting from side to side. We understand that one of these pans will soon be at work at the American claims. A patent has been applied for by Mr. Crall and the new invention will soon be fully described through the Mining and Scientific Press.—*Nevada Transcript.*

Work and Inventions.—Mr. Mill tells us in his Political Economy, that the labor-saving inventions of modern times have not yet lessened the daily labor of mankind. The steam engine does the work of about one thousand millions of men—more men than there are in the world—and this inconceivable addition in the world's working force has all accrued in ninety years; yet no man finds his day's work diminished by it. On the contrary, we work harder than we did ninety years ago, and hardest where there are the most steam engines. The farmer on our western prairies, by the aid of the mowing machine, gets in, in one week, a crop which his father could not have got in by working till the grain dropped over-ripe from the straw; and then he thrashes, in six hours, more than his father could have flailed out in a whole winter. But he works harder than his father did, winter and summer. Ladies have made the same remark upon the sewing machine; they can sew at a pace that would have made their grandmothers gasp to see, but their sewing is never any nearer *done* than it was when they set every stitch by hand.

We believe it will be so to the end of the chapter. We do not believe that any possible development of invention will ever much lessen the amount of human toil. As long as the world stands, we think the world will daily require, for carrying on its business, its entire daily revenue of force.

Patent Received.—Mr. S. D. Sexton of Los Angelos has received the patent for his "Improved Quartz Crusher," which issued Sept. 5th, 1865. The above is the fourth patent which has been issued upon the inventions of D. Sexton, who is constantly at work setting forth new ideas to the world.

California Inventions.

Within the past three months, the Patent Office of Washington has granted letters patent for the following new inventions made by residents on this coast, through the agency of the Mining and Scientific Press. A number of these patents arrived by the Colorado. A large number of additional applications forwarded during the same time, are still before the Commissioner awaiting examination.

G. H. Pond, of San Francisco, for a new process for crushing quartz.

To Dr. W. M. Butler, of San Francisco, for a new mechanical chair, for the use of dentists and hair dressers.

To Dr. W. M. Butler, of San Francisco, for a new form of spittoon for the use of persons while undergoing dental operations.

To Michael Howard, of San Francisco, for a liquid to be used for restoring hair on persons afflicted with baldness.

To Jacob Price, Jr., of Petaluma, for a new form of hay press, for baling hay.

To Geo. Mallear, of San Francisco, for a new form of plane, for the use of carpenters and cabinet makers.

To Wheeler & Randall, of San Francisco, for a new form of amalgamating pan. The tractory conoidal.

To Skinner, Duncan & Merighi, of San Francisco, for a new process in making mastic for roofing and other purposes.

To Benjamin McEachern, of San Francisco, for a new process for enameling mouldings for looking-glass and picture frames.

To A. C. Austin, of San Francisco, for a new form of machine for crushing quartz.

To John Woolaver, of Suisun, Solano county, for a new form of bottle for holding effervescing liquids.

To Chas. Thiery, of Virginia City, Nevada, for a new form of amalgamating pans.

To John Woolaver, of Suisun, Solano county, for a new process for corking and drawing corks from bottles.

To F. G. Belknap, of Washoe City, Nevada, for improvements in the manufacture of amalgamating pans.

To Paschal Varnum, of San Francisco, for a new composition for making floors and sidewalks.

To Milton A. Wheaton, of San Francisco, for an improvement in the form of and use of mowing machines and harvesters.

To Earl F. Hough, of Martinez, for a self regulating windmill.

Several of the above inventions have already been fully described in our columns; a portion are described in the present issue, and others will be more fully noticed hereafter.

Retired.—Joseph O'Keefe, a partner with the brothers Watt, of Grass Valley, in the famous Massachusetts Hill mine, has retired from active participation in mining affairs, and established himself with his family in a splendid new residence, which he has recently erected near San Jose. His place is said to be one of the finest in the State, and consists of nearly a hundred acres of land, covered with grass, orchards, and shrubbery, and watered with a beautiful stream of water. Mr. O'Keefe still retains his interest in the old mining property, from which he has realized his large fortune, and has also quite recently bought a quarter interest in another valuable mining property in Grass Valley, known as the Hartery claim.

Valuable Church Property.—Trinity is not the only New York church whose property is estimated by millions of dollars. The Collegiate Church, so called, the earliest formed Dutch church in that city, holds property valued at $4.000,000, with an annual income of about $150,000. The property was left by one of the elders of the church, and consisted originally of a piece of *swamp land*, then of but little value. It was left to support the ministry; so the church keeps *four* pastors—to which it pays $7.000 a year each—requiring but a small portion of the present income. The other Dutch churches have sued for a division of the income among all the churches of that faith in the city, contending that such was the intent of the donor.

Price of Labor in Austin.—Common laborers command $4 per day; carpenters, $7; joiners, $6, and masons $8 to $10. Board per week, $10.

Dividend.—The Jefferson Gold Mining Company has declared another regular dividend of fifteen dollars per share.

The Eel River Navigation Company.—We last week noticed the organization of this company. The company evidently mean business, as they have already put on their first vessel, the schooner May, which is to sail in a few days direct to the mouth of Eel River. It has generally been considered impossible for vessels to enter the mouth of this river; but recent explorations have proven that it is quite practicable to do so with vessels of light draught. Indeed the river was entered in 1850 by the J. M. Ronison, which vessel sailed up the river some four miles, supposing she had entered the Trinity, which river she was in search of. The opening of this river is very important in view of the growing oil interest in that region. All the oil from the Mattole and Bear rivers has now to cross Eel River on its way to Eureka, for shipment to this port. If it can be placed on shipboard at Eel River, the price of freight will be greatly reduced, and much additional value given to the entire oil region of Southern Humboldt. The oil, which it is confidently expected will soon be found in the Eel River valley, can be shipped almost directly from the wells. An important fishing and agricultural interest will also be opened up by the success of this new enterprise. May it prove a success in reality.

Gold Hill Drinking Water.—An analysis of the drinking water supplied to the residents of Gold Hill has been made by Messrs. Richard and Wiegand, from which it appears that it is more healthy for use than the water generally furnished large cities. It contains but a mere trace of organic matter, the usually fruitful source of disease in water; but shows 19.74 grains of mineral matter to the gallon of water, made up as follows:

Sulphate of lime	11.35
Sulphate of magnesia	7 63
Sulphate of soda	0.65
Carbonate of soda	0.11
Free soda	traces
Organic matter	traces
	19.74

No arsenic or any other matter especially injurious to health was found. It is superior even to the Truckee river water, which one would suppose to be as pure as any mountain stream. The only inconvenience attending its use is found in washing, when a portion of the soap is decomposed, and attended with the formation of various insoluble combinations of lime and magnesia, which float on the surface and adhere to the sides of the vessel; but this inconvenience may be corrected by the use of alkaline and carbonates, and other chemical substances. The same water is furnished to Virginia City also.

California Coal Interests.—The agricultural, mechanical and mining interests of California never were anything like as promising as they are at this time. Among the especial branches of mining, the coal interest is rapidly assuming a large degree of commercial importance, and the home product is fast driving foreign coals out of the market, and very properly keeping our money at home to support our own mines and mechanics, and aid in providing a market for our agriculturalists. During the first three-quarters of the present year, the receipts of coal at this port have been as follows:

	1864.	1865.
Eastern	tons. 40,252	21,801
English	9,568	5,277
Scotch	3,291	246
Sydney	16,591	8,374
Vancouver	12,449	8,463
Coose Bay	1,070	1,085
Bellingham Bay	5,975	7,920
Total imported	tons 89,196	53,166
Monte Diablo	30,593	41,766

This gives a pretty large decline in imported, and over 30 per cent. increase in Monte Diablo. Of the imported coal, Bellingham Bay alone shows an increase. The receipts from Nanaimo show a decrease as compared with last year; but the last quarter they have been about 4,000 tons. The demand, then, for that coal has been large—much larger than the Vancouver Coal Company have provided the means of supplying.

The Oregon Agriculturist is the name of a new paper just started in Salem, Oregon. It is a quarto, with a beautifully-engraved head, and altogether the neatest got-up paper north of California.

A Pen-Picture of Pithole, Pa.

We gave a short notice last week, of the remarkable opening in the earth in Pennsylvania known as Pithole, and which has given its name to a valuable oil district which has recently been developed in its immediate vicinity. A correspondent of the Chicago *Times* gives the following pen-picture of these wonderful oil wells; which will no doubt answer for a description of most other large flowing oil-wells:

We first came to the United States, the mother of Pithole. It was with some difficulty that we found the well, the derrick being completely surrounded by tanks, each of the capacity of 1,200 barrels, and the oil flowing from one into the other as fast as they respectively became filled. Advancing with eager curiosity toward the great sight, the visitor is somewhat startled by the abrupt question, "Any matches about you?" and without stopping to see whence comes the voice, demurely and vacantly shakes his head, whether he has matches or not. He is then allowed to climb the greasy ladder which overlooks the tank into which the oil first flows. Hardly grasping the novelty of the position, though holding tightly to the ladder, and almost stifled with the carbonated gas, to which he is unaccustomed, he looks in vain for the source, but finally succeeds in finding it, a spontaneous spouting forth of greenish fluid, from a pipe about the size of the wrist, which makes some men rich and some men crazy.

Splashing against the sides of the tank, and throwing the liquid over everything in the neighborhood, it pours forth a stream of pure oil of about 700 barrels a day, regularly breathing in its flow, and with the noise of a ten-horse power engine. Passing on, we come to well No. 54, also on the Holdemn farm, the whole of which was leased some time ago by the United States Petroleum Company. This is a larger well than the one just left, was "struck" only eight days ago, and gushes forth with all the impetuosity of youthful vigor. The stream of oil is larger but scattering, and with much more gas, makes the noise of a steamboat, quick, heaving and puffing. Being the newest, and taking advantage of the excitement, it is claimed as a 2,500 barrel well, but it actually flows about 1,200 or 1,300 barrels per day. But a few yards farther on is No. 19, or the Grant well, the Phillips of the present day, whose flow is more steady and quiet, but is a thicker stream, and whose yield is at least 1,500 barrels per day. Then comes the two Twin wells, and the Island well, making in all the production in a small center over 5,000 barrels in every twenty-four hours.

This valuable property has recently been sold to some Chicago capitalists for the snug little sum of $1,500,000. These wells are on leased property, and the income from the leases to the parties who hold the franchise is said to range from $4,000 to $5,000 per day.

The Medicinal Qualities of Kerosene are as yet but imperfectly understood. That it does possess such qualities, to a reasonable extent, is generally acknowledged. What it will accomplish must be learned by experience. We have frequently heard it spoken highly of as an external remedy for rheumatism, but never, until we met the following paragraph from the Folsom *Telegraph*, have we heard of its being used internally for anything. The article appears to have been written in good faith; if so, would it not be well for some of our medical practitioners to try the experiment in their practice, and give the world the benefit of their experience? We copy as follows:

At Alder Creek, a miner named Joseph Dobson, had been for the last six or eight years grevously afflicted with imflammatory rheumatism, so much so, as to be hardly able to drag himself along with the aid of crutches. The ordinary remedies failed to give him any relief, and he gradually grew worse. Some person finally recommended the use of kerosene. He first applied it externally, and found immediate relief, and continued growing better; at length he commenced taking it internally, and accustomed himself to two drinks a day, until he had so far recovered as to obtain the full use of his limbs. A few days ago he wheeled a wheelbarrow loaded from the station at Alder Creek to the American River, a distance of nearly half a mile. He attributes his recovery alone to the use of kerosene, and has thrown all other medicine to the dogs.

Treasure Shipment.—The Colorado, which sailed on Monday last, took away a large passenger list, and $1,141,822 in treasure; $700,447 of which went to New York, $20,000 to Panama, and the balance, $421,375, to England.

Ballooning in New York.—Prof. Lowe has filled up an inclosure in New York, where he gives daily balloon exhibitions for two bits a head. Any one is allowed to go up in his balloon for $5, or two can go up for $2.50 each. The Professor always ascends with them to manage the "machine." The balloon he uses is able to take up five; but he considers three a "load." His latest sensation announcement is that he has a splendid bridal car in process of construction, in which he will take up any romantic pair, with an officiating clergyman, who may be desirous of taking upon themselves the marriage vows among the clouds; himself going as witness to the ceremony! The balloon is let up to a height of 1,500 feet by a cord and windlass, worked by brakes, and hauled down by horse-power; the signal for coming down being given by a shrill whistle from the æronaut. About five minutes are occupied in coming down—less time in the ascent. The view from the upper end of the rope is said to be magnificent in a clear day, and the sensation delightful. An extra rope is attached to the balloon to guard agiust accidents.

Remarkable Escape.—A little boy about three years old, strayed away from his home, in Virginia City a few days since, and fell into a shaft 130 feet deep, where he remained from the afternoon of one day until near night on the next. A little pet Newfoundland dog accompanied him in his truancy and fall. Both were rescued without any material injury to limb or body. The shaft was sunk from the floor of a tunnel about 150 feet from its mouth, on the Ophir Company's ground; but being so far into the tunnel was not observed by the people in looking for the lost one, until the father, in his agony of search, strayed into the tunnel, noticed the shaft and called aloud down its dark recesses as he had already done in scores of others; but unlike the others in this case, the answer came back "Oh Pa!"—The lost one was found.

A Scene at the Battle of Five Forks.—On the left of our line the rebels fought with stern determination. A colonel with a shattered regiment came down upon us on a charge. The bayonets were fixed; the men came on with a yell; their gray uniforms seemed black amid the smoke; their preserved colors, torn by grape and ball, waved defiantly; twice they halted, and poured in volleys, but came on again like the surge from the fog, depleted, but determined; yet in the hot faces of the carbineers they read a purpose as resolute, but more calm, and, while they pressed along, swept all the while by scathing volleys, a group of horsemen took them in the flank. It was an awful instant; the horses recoiled; but at once the rebels, with rare organization, fell into a hollow square, and with solid sheets of steel defied our centaurs. The horsemen rode around them in vain; no charge could break the shining square, until our dismounted carbineers poured in their volleys afresh, making gaps in their spent ranks, and then in their wavering time the cavalry thundered down. The rebels could stand no more; they reeled and swayed, and fell back broken and beaten; and on the ground their colonel lay, sealing his devotion with his life.

A Character.—I do not know any object more interesting, in social life, than an amiable young lady receiving her company, ministering to their amusement, mingling in every little tide of talk, and directing the while the whole pleasant, but intricate machinery of a party. It requires something that may be called talent to entertain company with grace and ease—to draw out the retiring character of the reserved—bring congenial spirits into acquaintance and fancy its glittering flashes. A large party contains various dispositions, tempers, antipathies, &c. These are the materials out of which are to be constructed pleasure, delight, and enjoyment. It is the peculiar province of woman, in polite society, to cement the different elements of happiness together by her plastic hand. In such a situation her skill is most seen as well as felt.

A new religious movement has been started in England. It is proposed to unite the members of the English Roman Catholic and Greek Churches in friendly communion, and the public journals report that 300 churches in England assent to the measure.

A sale of naval vessels at Brooklyn navy yard has lately taken place. The vessels brought unusually good prices, and some were sold for more than Government paid for them.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

O. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides and the evidence of any error which may appear will be received in friendship and treated with respect.

American and Foreign Patents.—Letters Patent for inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the credit system.

San Francisco:
Saturday Morning, Nov. 4, 1865.

A NEW EMPLOYMENT FOR CAPITAL.

Active measures are being taken to call the attention of capitalists to the wonderful and extensive deposits of iron ore, which it is well known exists in many portions of California. One of these deposits, and probable the most valuable of any, is located in Sierra county, and not far from Sierra City. This belt of ore extends, so far as known, some thirteen or fourteen miles in length, and 1,000 feet wide. The quantity in sight, it is estimated, will exceed 2,000,000 tons. The ore is of a very superior character and quality, and remarkably free from such impurities as are generally found to present the greatest difficulties to the smelter. The location is in the center of one of the richest mining sections of the Pacific coast, and almost directly upon the great highway passing across the Sierras from California to Nevada. For miles around the neighborhood of this deposit the hills are covered with the finest timber, which will afford an abundant means for the production of charcoal, the very best character of fuel that can be employed in the production of iron ore, when it can be obtained at a small cost, as it can be in this locality. The fuel generally employed in England and Pennsylvania, for the production of iron, is mineral coal, which is there the cheapest material that can be commanded; but the justly celebrated iron of Sweden, Norway, and Russia, owes its superiority chiefly to the fact that it is produced by charcoal instead of mineral coal. In California and Nevada, where transportation forms so large a percentage in the cost of iron at the mine or mill, it would appear most especially desirable that the quality of iron should be of a high grade, as it costs no more to transport such than it does an inferior iron, which, from its indifferent character, must soon be thrown aside for new. More attention than heretofore is beginning to be drawn to this consideration, and the employment of steel, even, in many cases, especially for shoes and dies, it is thought would be an economical move.

Gentlemen of large experience in iron smelting operations have examined the above-mentioned locality, and carefully counted the cost which will be required to produce iron there. Their conclusions have been most particularly favorable. Some have estimated that a good quality of iron can be made at a cost not to exceed twenty or twenty-five dollars per ton, a rate at which its manufacture must prove highly remunerative.

For the profitable reduction of iron ores, four things are mainly needed, viz., timber, fuel, a convenient market, and a suitable quality of material needful in erecting smelting furnaces, all of which should be obtainable easily and without great expense. The former, as we have already shown, exists in the greatest abundance, and with it is afforded every opportunity for producing the best of fuel at a reasonably cheap rate. The position of the deposit, directly in the midst of the finest mineral country on the globe, and within eighteen or twenty miles of the proposed route of the great continental railroad, affords every facility for turning the product of the furnace cheaply to a good account; while in close proximity is found in great abundance a class of grey sandstone, singularly fitted for building furnaces, and, moreover, proved to be the best kind of such material, it having been fully tested by extensive use in the numerous smithies in that neighborhood. All those who have had occasion to use this sandstone for similar purposes, assert that it is fully as well adapted for building smelting furnaces as the best English fire-brick.

In fact every circumstance seems to combine to point out this as a most favorable opportunity for the initiation of a new branch of business in California, which, when once inaugurated, is destined to call into active use a vast amount of capital, and afford profitable employment, directly and indirectly, to many thousands of people.

A NEW MOVEMENT.

Some of the principal Eastern railroads have under discussion the propriety of adopting some speedy and efficient mode of cutting off the large extra expense with which the public is now taxed, under the "Express" system, and by which the railways are also deprived of a large amount of business which properly belongs to them. Freight intrusted to these express "transportation companies" travels no faster than ordinary freight, and there is no reason why merchants should not place their goods into the immediate charge of the railroad companies. The only labor the express companies perform is the collection of extra freight over that which they pay to the railroad companies, and which they disburse in the shape of large dividends to their various shareholders. The railroad companies might as well receipt for what now passes through "express lines" as that which does not, but still goes over the road on the same train. The enormous tax, charged by express companies, enables their proprietors to divide hundreds per cent., while railroad companies, who invest all the money and do all the work, can seldom derive six per cent. on their investments. A large and respectable committee, representing such roads as the New York Central, the Pennsylvania Central, the Baltimore and Ohio, and other roads, has been appointed to consider the matter, and arrange for a speedy suppression of the "express" innovation. A system has long been in use between the Western and Eastern States by which heavy freight is transferred from one company to another, and from railroad to steamboat, thus passing without confusion and without through attendance from one end of the Union to the other, the sender knowing no other party than the one to whom he delivers his freight, and the receiver none than the one from whom he receives it. Every railway stockholder, and almost every individual member of the community, is interested in the success of this movement—a movement whose legitimate object and result is to keep *millions of dollars annually* where it properly belongs—in the hands of producers and consumers, instead of frittering away that vast sum to no purpose, in the shape of commissions to parties who create no values.

THE MINING AND SCIENTIFIC PRESS locates the French Mill at Grass Valley. That will be news to the owners of the mill. They suppose it to be located upon Little Deer Creek near this city.—*Nev. Transcript.*

"The French Mill," and the one which we probably supposed was alluded to, is located on Wolf Creek, in Grass Valley, where it has stood for the last ten or twelve years. We are also well aware that a mill, sometimes known as "The French Mill," is located on Little Deer Creek near Nevada City. That mill has also been standing some ten or twelve years.

THE GREAT PETROLEUM SHAFT.

We mentioned, some two or three months since, that a party of capitalists, who had made money out of oil, and who were tired of trying to see things with their eyes shut, and *speculating* as to the precise appearance of things "down below" where they make the oil, had resolved to make an effort at least to look upon the oil rocks with their eyes open, and with that view had organized a company to sink a deep shaft for that purpose. The company has been organized, and is now fairly under way. They have selected a locality known as Petroleum Centre for the scene of their operations, where they are now, by the aid of pick and shovel, going bodily down stairs, for the purpose of giving dame Nature's oil locker a close personal inspection. The shaft is of liberal dimensions, seven feet by fourteen, and is to be sunk below that mysterious place where so much money has been buried—"the third sand-stone." The *Oil Register* says that "the result of this exploration is awaited with curious interest, though when we consider the variety of locations and conditions wherein oil has been discovered, we can hardly see how they are to gain any *portable* knowledge, unless they can carry the hole about with them. But as the first direct inquisition of nature in broad daylight, it may, at least, possess a scientific value."

Here in California there is no need to dig such deep holes to get down to the oil rocks; for Nature, in some of her antic moods in ancient times, has turned herself pretty well upside down, and tilted her "third" and all other sand-stones, and intermediate "layers" as well, up to the light of day. The oil prospector in Santa Cruz and around Mount Diablo, and in the lower part of the Humboldt oil regions, can walk along the surface and examine these "sand-stones" at his leisure. However, they may look a little different "down below," and certain it is that the borings thus far indicate that they are more fully saturated with oil there than they are on the surface. We opine, however, that our Eastern friends will find it a little beyond human endurance to work in a shaft, after it reaches the neighborhood of the "third sand-stone;" they must, moreover, look out for explosions down there. If it is unsafe to light a cigar in the neighborhood of the mouth of an oil boring, what will they be able to do with a lighted candle in an open shaft of that depth? A Davy lamp wont save them.

FOR RESTORING THE HAIR.—Mr. Michael Howard, of this city, has obtained a patent through the MINING AND SCIENTIFIC PRESS AGENCY, for his Hair Restorator. The Professor thinks (and we believe with good reason), that he has discovered in the abundant vegetable kingdom of this coast, a preparation which will restore the hair to its pristine growth. We would advise all bald heads to "go up" and try the Professor's skill.

STRUCK GOLD.—The workmen engaged in the construction of the Russo-American Telegraph line, while setting posts about 150 miles above Quesnella mouth, are said to have struck a gold placer prospecting from seventy-five cents to one dollar a pan. Result—a temporary suspension of telegraph construction for the more profitable employment of gold mining.

IMPORTANT TO SILVER WORKERS.—Persons engaged in the amalgamation of silver ores will do well to read attentively the present number of Prof. Lauszeweert's series of articles on "The Problem of Gold and Silver Extraction," and also the number which we published last week. His discussion of the economy of the use of dichloride of copper in the pan process, and the employment of a copper amalgam, instead of pan quicksilver, will be found both interesting and useful.

SALE OF A MINE.—The Macedonia Mine, just on the border of the State of California and Arizona Territory, has been sold to a New York Company, for $150,000. The first installment, $30,000 of the purchase money, in gold, has been received in this city.

COFFEE AND SPICES.—Most people relish a good cup of coffee. If there is any one weakness of the appetite which we favor more than another, it is a desire which somehow comes over us about three times a day for a good cup of coffee. This healthful and grateful stimulant forms an important element in the domestic economy of every family, and its consumption in this city alone amounts to nearly fifty tons per month. This great demand has stimulated the establishment of several business houses, which are employing a large amount of capital in its preparation for family use, among which we may mention prominently that of CHARLES BERNARD, at 707 Sansome street, near Jackson, who manufactures about the best article we have yet been able to find in this market; as an evidence of which we may mention the fact that he was awarded the first premium, at the late Fair, for both coffee and spices.

We took occasion, a few days since, to visit this establishment, where we found a large number of hands busily employed in the various processes of roasting, grinding, packing, etc., aided by the tireless arms of a neat little steam engine, of some twelve horse-power. The establishment occupies two entire stories. The roasting is done in a furnace, divided into two compartments, in each of which a large cylinder is made to revolve by machinery, and which are driven back and forth for filling and discharging upon convenient iron slides. The coffee, after being roasted, is first bruised or broken up by several iron balls, rolling in an iron cylinder, which, by a compound eccentric motion, is made to revolve in a zig-zag manner, effecting a perfect and even-breaking of the whole mass. From this cylinder it is run through grinding-mills, where it is still further reduced to the requisite fineness for extracting, to the best advantage, its flavor and strength. Mr. Bernard also prepares all the various table-spices and herbs that are called for in the family economy. His establishment throughout exhibits a degree of neatness and order highly creditable. He commenced this business some ten years ago on an exceedingly small scale, from which small beginning he has built up his present extensive business, which now reaches out into almost every town and mining camp on the Pacific coast. This success is the amplest guarantee of the superior quality of his manufactures. All he sells is guaranteed pure. The famous Chartres coffee, which he manufactures so successfully, owes its name and fame to the city of that name in France, where it was first made by an ingenious Frenchman, who well understood how to properly manipulate this favorite berry in order to obtain from it its most delicious flavor. Mr. Bernard, coming from the same neighborhood, appears to have also thoroughly informed himself of the process, so that he is able to furnish the citizens of San Francisco with an article not at all inferior to the same famous brand which is served up so acceptably to the lovers of coffee in the city of Paris.

HARRIET MARTINEAUX, now in her 64th year, still continues one of the most active and able writers in the British metropolis. She has just sent to press the last volume of her "History of England during the Great Peace." She is now nearly blind, and totally deaf.

HEAVY SHIPMENT.—The Allison Ranch Company, of Grass Valley, shipped to this city, on the 29th ult., by Wells, Fargo & Co., $8,000 in gold, the proceeds of four weeks' work. A pretty good "giving-out" for one mine.

THE SEVENTH CARGO.—The schooner Equity, which arrived in this port on Monday last, makes the seventh cargo of codfish caught in the Pacific which has arrived here this season. This business is rapidly growing to be one of considerable importance.

CROCKETT CONSOLIDATED MINING COMPANY, ESMERALDA.—This company has changed its office from 728 to 605 Montgomery street, and John M. Burnett has been elected Secretary of the Company.

LIST OF OFFICERS OF MINING COMPANIES AND INCORPORATIONS.

[PUBLISHED IN THE FIRST ISSUE OF EACH MONTH.]

Below we give the date of recent meetings held in this city and the names of officers chosen or appointed. Every bona fide company is invited to send us the result of their election, to be thus put on record, gratuitously, with any other facts of general interest.]

INDIAN VALLEY G. & S. M. Co., Indian Valley, Plumas County, Cal.—Oct. 17. Trustees: Geo. R. Carter, John Carter, Wm. H. Blood. President, Geo. R. Carter; Secretary, John Pollak; Treasurer, Geo. R. Carter; Superintendent, John N. Blood.

LA BLANCA G. & S. M. Co.—October 10th. Trustees: D. Dwyer, John F. Lohse, H. H. Claussen, E. Wertheimer, H. Engelbrecht. President, David Dwyer; Secretary, Charles Friedberg; Treasurer, E. Wertheimer; Superintendent, F. A. Hartmann.

SEGREGATED BELCHER M. Co., Storey County, Nev.—Oct. 24th. Trustees: J. Sime, F. Livingston, A. K. P. Harmon, E. R. Burke. President, J. Sime; Secretary, Jno. F. Lohse.

EL TASTE S. M. Co., Sonora, Mexico.—Oct. 17th. Trustees: J. O. Rountree, J. B. Roberts, J. R. Mead, B. E. Harris, C. Wiltram, F. Wiltram, F. D. Carlton. President, J. O. Rountree; Secretary, E. C. McComb; Treasurer, F. D. Carlton.

RECENT INCORPORATIONS.

INDEPENDENCE OIL MINING Co., Mattole Valley, Humboldt Co., Cal.—October 3d. Trustees: H. B. Wentworth, George Hill, C. M. Bartlett, John McGinnis, Martin Sanders.

GENERAL GRANT MINING Co., Clear Creek District, Tulare Co., Cal.—Oct. 5th. Trustees: Samuel Reynolds, F. Hagemann, L. F. Lovelnad, J. B. Painter, H. Reed.

HALEY PETROLEUM Co., Santa Cruz County, Cal.—Oct. 16th. Trustees: John J. Haley, A. Rosenfield, William J. Gray, William H. Keith, J. K. S. Latham.

BETTS FARM OIL Co., Mattole River, Humboldt Co., Cal.—Oct 19th. Trustees: Geo. L. Faulkner, Samuel Woods, Wm. S. Haven, Benj. E. Babcock, Edwin Harris.

JENNINGS OIL Co., Humboldt Co., Cal.—Oct. 19th. Trustees: John A. Hooper, John Dolbeer, John Kentfield, Geo. Phillips, J. M. Olmstead.

MORRISON PETROLEUM Co., Eel River, Humboldt Co., Cal.—Oct. 21st. Trustees: Charles Nelson, J. M. Thurston, J. G. Graham, J. W. Crosley, H. Hale.

CALIFORNIA MINING BUREAU ASSOCIATION. Oct. 21st. Trustees: A. J. Snyder, Joseph W. Low, A. Buldwin, J. B. Whitcomb, H. L. Dodge, A. P. Molitor, Cyrus Palmer, Thomas McAuley, John R. Brett.

ECLIPSE MILL AND MINING Co., Gold Hill District, Storey Co., Nev.—Oct. 24th. Trustees: Louis Sloss, W. T. Grissim, W. H. Henderson.

NEW ENTERPRISE.—A New York company has recently purchased what is supposed to be a valuable quicksilver mine, near Mono Lake, and have sent out a large force, consisting mostly of "iatelligeat coatrabands," with able engineers and experts, and all the necessary machinery for working it.

A NEW PAINT.—D. P. Flinn, of Geneva, N. Y., has patented a paint, composed of oxyd of zinc, slacked lime, resin, milk, and linseed oil, which, it is claimed, is better for the inside work of houses than oil paint, inasmuch as it is more durable and retains its white color longer. It dries in two hours.

TERRIBLE OCCURRENCE IN A FOUNDRY.—A laborer came to a horrible death lately in an English foundry. He was charging a furnace with coke and iron, and placed his face to the mouth of the furnace to see if he had put in a sufficient charge, when the flames from the furnace caught his face and head, and burned him to death. He was found in that condition soon afterward by the foreman, kneeling in front of the furnace, exactly in the position he was scorched.

WELL ENOUGH TO KNOW.—The scientific name of the cattle murrain in England is pneumonia peeorum epizotica typosa. The public always demanding that things shall be called by their right names. There is no excuse now for them if they miscall this.

THE *Sentinel* attributes the prosperity of Santa Cruz to the many manufacturing establishments in that place, which pay out every month over $25,000 in gold for labor, all of which is there spent for improvements and the necessaries of life.

A NEW HAVEN telegrapher has invented a new arrangement of sound reading, in which, instead of a pause between each letter, a musical note is sounded.

MINING ACCIDENTS.—Two men, named respectively Dennis Lynch nad Thos Quine, were killed by a cave in the Ophir Mine, at Grass Valley, on Thursday evening of last week, as we learn from the *National*. Lynch was twenty-nine years of age, and leaves a wife and child at Grass Valley. Quine was twenty-two, and had no relatives in this State. The accident occurred from a "slip" which took place within twelve inches of a pillar.

Martin Collins was killed, a few days since by an accident in the Eureka mine, at Sutter Creek, Amador county.

SELF-CULTURE.—Have courage enough to review your own conduct: to condemn it where you detect your faults; to amend it to the best of your ability; to make good resolves for your future guidance, and to keep them.

WHAT DOES IT MEAN.—Orders have been received at the Headquarters of this Department from Washington to prepare quarters at Mare Island for seven thousand marines and sailors. Is Uncle Sam preparing to make a large naval depot on this coast with a view of watching the course of events among our Mexican neighbors?

THE regular army, it is stated "on good authority," will hereafter consist of 50,000 men. This number is expected to be reached within a few months, the average enlistment now being 300 per day, the men being mostly discharged soldiers of the volunteer army.

New Invention.

ROSENFIELD'S PATENT SAFETY WHIPPLETREE—The greatest thing out. The attention of all owners of Horses and Buggies is called to this valuable LIFE and Buggy saving invention, and which can be attached to all buggies and vehicles without any changes in the harness or buggy, and can be easily secured to any carriage in fifteen minutes. The great value of this Whippletree is, that a runaway horse can be instantly detached from a carriage without taking any portion of the vehicle. The public are invited to call and see it, and orders for the Whippletree left at No. 420 California street (northeast corner of California and Leidesdorff streets), Room No. 1, from 10 A. M. to 5 P. M., will be promptly attended to. Letters dropped through the Post Office, Box 1,944, will be promptly and fully answered. 18v11-1m

A Business Compliment.

PETALUMA, Oct. 4, 1865.

MESSRS. DEWEY & CO.—Gentlemen: Your note informing me that my patent for Crushing and Baling Machine is ordered to issue is at hand. Please accept my thanks for the prompt and business-like manner with which the case has been conducted, and inclosed find twenty dollars for balance Government fees. Respectfully, etc.

JACOB PRICE.

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—IN THE—

MINING AND SCIENTIFIC PRESS.

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Notices of Meetings, per square, one week	$1 00
Notices of Meetings, per square, four weeks	2 50
Assessment Notices, of ordinary length, four weeks	5 00
Assessment Notices, of more than usual length, for each additional square	2 50
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Postponements, per square, one week	1 00
Slips of Advertisements, printed for meetings or assessments, per hundred	1 00
Advertising blanks and circulars	Free

Miscellaneous Advertisements.

One week, per square	$1 00
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One quarter (3 months), per square	7 50

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One copy, one year, by express	6 50
One copy, six months, by express	3 50
Five copies, one year, by mail, in advance	20 00
By city carriers, per month	50
Single copies	12½
Monthly Series (or parts), containing 4 Nos	50
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THE CIRCULATION of the PRESS, already extensive, is rapidly increasing, and substantial men who can profit by widely disseminating information of their business amongst the most intelligent, influential and industrial classes of the Pacific States and Territories will find no more effectual or economical medium for advertising.

DEWEY & CO., Proprietors.

Patent Agency and Job Printing Office, 505 Clay street, San Francisco. July 1 1865

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—BY—

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N. Y. Tribune Correspondent.

1,000 COPIES SELLING PER DAY!

The most interesting and exciting book ever published, embracing Mr. Richardson's unparalleled experience for four years. Travelling through the South in the secret service of the "Tribune" at the outbreak of the war, with our armies and fleets, both East and West, during the first two years of the Rebellion; his thrilling capture; his confinement for twenty months in seven different rebel prisons; his escape, and almost miraculous journey by night of nearly 400 miles. It abounds in stirring events, and contain more of the fact, incident, and romance of the war, than any other work yet published. Horace Greeley says of it:

"A great many books will yet be written concerning this war, in addition to the many already in print; but not one of them will give, within a similar compass, a clearer, fuller, more readable account, entirely from personal observation, of the nature, animus, purposes, tendencies, and instrumentalities of the slaveholders' rebellion, than does the unpretending narrative of Mr. Richardson."

Teachers, ladies, energetic young men, and especially returned and disabled officers and soldiers, in want of profitable employment, will find it particularly adapted to their condition. Send for circulars. Address

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PATENT AGENCY.

For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 4th, 1861, and March 3d, 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent, And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, including a full description, specification, model, duplicate drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely recommend his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A specimen-like sketch, and description of the invention should be sent together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Cavent is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensue. If the application is rejected we examine the cause thoroughly, in order to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, when practicable, not exceeding twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists merely of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time, but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 yrs and 6 mos	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every application for a patent, for seventeen years	15
On every caveat	10
On issuing each original patent	20
On filing a disclaimer	10
On every application for a re-issue	30
On every additional patent granted on a re-issue	20
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of the Circuit Court, D. C.	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, No. 505 Clay street, corner of Sansome, San Francisco.

Just and True Economy

IN MINING ADVERTISING.

The Proprietors of the MINING AND SCIENTIFIC PRESS would call the especial attention of MINING SECRETARIES, TRUSTEES and SHAREHOLDES, to a few substantial reasons for the publication of Mining Notices in their journal—the first and only important newspaper of its class published upon this coast.

1st. The PRESS enjoys a large and permanent subscription list, having a more universal circulation among shareholders and men intimately connected with mining interests than any other publication.

2d. Under the present law the publication of all mining notices on Saturday, in a weekly journal, complies as fully with the statutes as a daily publication. It is generally found to be equally as convenient for secretaries, and decidedly preferable to stockholders who have not time to examine throughout every issue of a daily.

3d. Economy in mining should always be looked upon with favor, and the cost for weekly advertising in the PRESS is less by ONE HALF than the rates of any other journal in this city possessing a respectable circulation.

4th. The publishers of the PRESS, making the mining interest their especial care, take particular pains to assist in the avoidance of errors in advertising. Our print is also more clear and perfect than can be expected in such papers as are hurriedly issued from cylinder presses.

5th. Our "Shareholders' Directory" forms a complete index of all mining notices published in San Francisco, by reference to which shareholders can at once see if their company is advertised, and determine whether the same is inserted in the PRESS or some other paper.

6th. Many copies of the PRESS are bound by prominent professional men, mechanics, secretaries, brokers, shareholders and others, as an important record for future reference, thereby rendering advertising, of every class, in its columns, of peculiar and permanent value, to extend, is all that is requisite, and we are confident we shall receive it.

7th. The benefit of having all mining notices consolidated in one newspaper, for the common convenience of shareholders, secretaries, and others who have occasion to refer to the same, is obvious. With this view we have established our rates at only fair, living prices, believing that a journal like ours, untrammeled by party, creed, or prejudice, is the only medium which can reasonably ask for such a consolidation of mining patronage.

8th. Advertisements in the columns of the PRESS, after their first insertion, are arranged alphabetically. Our present list is equalled only in one instance by that of any other journal. Shareholders, as well as strangers, naturally turn their attention to a mining journal for information concerning the mines and mining matters.

LAST, BUT NOT LEAST.—Our sheet having been recently enlarged to the size of Harpers' Weekly is now only equalled in its dimensions by one mining paper in existence—the *London Mining Journal*. Published in this, the greatest mining field of the world, we desire that the PRESS shall have no superior. We can only repeat the oft-furnished object of building up a reliable advocate of the science and business of mining, which will be of just honor and profit to our community, by experience and liberal patronage. The bestowal of such favors only as naturally belong to us, and which it is clearly for the benefit of the donor to extend, is all that is requisite, and we are confident we shall receive it

DEWEY & CO.,

4v11 Office Mining and Scientific Press.

MINING BLANKS

For Sale

AT THE

OFFICE OF THE MINING AND SCIENTIFIC PRESS,

No. 505 Clay Street, corner of Sansome.

Blanks for Mining Companies, Secretaries, Shareholders and others, always on hand, or printed to order, at our office.

Among others are those of the following forms:

Shareholder's Proxy.

Know all men by these presents, that I, ... do hereby constitute and appoint ..... my attorney and agent, for me and in my name, to vote as my proxy, at a meeting of the ..... Mining Company, to be held ..... 186, accordiug to the number of votes that I should be entitled to cast were I there personally present.

In witness whereof I have this day hereunto set my hand and seal. .....[Seal]

Dated 186

Assessment Notice.

..... Company

.....

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the ..th day of ....., 186, an Assessment of .....per shnre was levied upon the Capital Stock of said Company, payable on the ..th day of .....186, in United States gold and silver coin to the Secretary.

Any stock on which said Assessment shall remain unpaid on Saturday, the ..th day of ....., 186, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on ....., the ..th day of ....., 186, to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees.

..... Secretary.

Office.....

NOTICE.—There are delinquent, upon the following described Stock, on account of assessment levied on the ..th day of ..... 186, the several amounts set opposite the names of the res ective shareholders as follows, to wit:

Names.	No. Certificate.	No. Shares.	Amount.
Theophilus Thistle	23	14	$140 00
Peter Pipe	2	3	30 00

And in accordance with law and an order of the Board of Trustees, made on the ..th day of ....., 186, so many shares of each parcel of said stock as may be necessary, will be sold at the.....

....., on the ..th day of....., 186, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

..... Secretary.

Office.....

☞ Our advertisers are furnished with blank Assessment Sale notices free of charge. Orders from the interior promptly filled, by mail or express, as may be desired.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible.

REPLACING A COW'S HORN.—The following paragraph appears in an editorial column of Shorthorn intelligence, in a recent issue of *Bell's Messenger:*

Did any of our readers every try the experiment of replacing a horn which had been sloughed or cast? We did so the other day, and with complete success. On Saturday, the 22d of July, a boy brought a horn to us which he had seen one of our cows lose by entangling it in a stile. A friend volunteered to put it carefully on again; and in the course of about twenty minutes from the time of the accident, the cow was once more in possession of a pair of horns. Twenty-three days have passed, and the horn seems as firm as any in the herd. No bandage or fastening was applied.

Mining and Scientific Press

JOB PRINTING OFFICE,

No. 505 Clay street, corner of Sansome.

CERTIFICATES
— OF —
STOCK
— FOR —
MINING
— AND —
PETROLEUM
Companies
Neatly Printed.

Stock Certificates of all kinds embellished with wood cuts and electrotype engravings. We devote special attention to the execution of all kinds of work required by Mining Companies, Machinists and Manufacturers.

Metallurgy.

EUROPEAN
METALLURGICAL WORKS,
— AND —
Practical Mining School,
Bryant Street, Between Third and Fourth,
SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "refractorious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. KIMBALL, J. R. MURPHY.
10v10

BOALT & STETEFELDT,
Metallurgists and Mining Engineers
AUSTIN, NEVADA.
Western Branch of ADELBERG & RAYMOND, No. 90 Broadway, New York. IIv11

FIRST PREMIUM
FOR REFINING COAL OIL,
At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,
I7v10 643 Third Street, bet. Brannan and Townsend.

NEW DISCOVERY
FOR DESULPHURIZING AND DECOMPOSING
METALLIFEROUS ORES,
— SUCH AS —
Auriferous Sulphurets, Arsenites or Antimonial Telluric, Gold and Silver Ores.

By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpina county, Cal., or by

DANIEL ROSS,

Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me.

EDWARD ARNOLD,
Inventor and Patentee.

Monitor, Alpine county, Cal.
W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11

Professional Cards.

Our Patent Agency.

The PATENT AGENCY of the MINING AND SCIENTIFIC PRESS has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of LETTERS PATENT from the United States and foreign Governments cannot be over-rated, and the Proprietors of the PRESS, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

WM. L. DUNCAN,
Stock Broker,
Member of the San Francisco Stock and Exchange Board,
No. 605 Montgomery Street, San Francisco
Mining Shares and Legal Tender Notes bought and sold strictly on commission. Liberal cash advances made on stocks consigned for sale. 1v11-3m

S. C. BUGBEE & SON,
ARCHITECTS.
DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.
74 and 75 Montgomery Block
SAN FRANCISCO. 25v10-3m

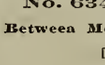
FREDERICK MANSELL.
Mechanical & Architectural Draughtsman,
No. 422 California street, corner of Leidsdorff.
Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

JAMES M. TAYLOR,
Attorney and Counsellor at Law,
COURT COMMISSIONER, appointed by the Fourth District Court. COMMISSIONER OF DEEDS for Nevada and Massachusetts.
Court Block, San Francisco.
Entrances opposite City Hall, Merchant street, and 636 Clay street. 14v11tf

DR. H. AUSTIN,

DENTIST,

No. 634 Washington Street,
Between Montgomery and Kearny Streets
[OVER SAN FRANCISCO BATHS]
SAN FRANCISCO. 20v10-qy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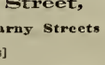

☞ Extracting Without Pain. ☜
Drs. Whitcomb & Dyer,
DENTISTS,
[Successors to W. H. Irwin.]
No. 205 Third Street, near Howard,
SAN FRANCISCO.
v9

OLNEY & CO.,
Real Estate, Stock, and General
Auction & Commission House.
No. 626 Montgomery Street, Montgomery Block.
JAMES N. OLNEY—Auctioneer.
SECRETARIES of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

AUGUST KUNAST,
Stock Broker,
Member of the
San Francisco Stock and Exchange Board,
Buys and Sells Stocks, Bonds, Etc.
Office, No. 540 Washington Street, San Francisco. 2v10

G. F. DEETKEN,
Mining Engineer and Metallurgist,
Address - - - - - San Francisco. 25v9

W. O. ANDREWS,
NOTARY PUBLIC,
— AND —
Commissioner of Deeds for the State of Nevada and the Territory of Arizona,
AND FOR THE
STATES OF MASSACHUSETTS AND MAINE.
Office, Montgomery Block, 626 Montgomery Street,
10v8-2m SAN FRANCISCO.

GEORGE H. BAKER,
Lithographer & Engraver,
No. 522 Montgomery St., San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

SHERMAN DAY,
Mining Engineer,
No. 56 Montgomery Block, San Francisco,
Will examine, survey and report upon mines, and locate and advise concerning investments in mining property, or the machinery management and expenditures of mines.
22q*

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Trades and Manufactures.

Pacific Glass Works
Are now prepared to execute orders for the manufacture of
All Kinds of Bottles to Order.
Office, No. 621 Clay street, San Francisco. 3v11-3m

EDWARD BOSQUI & CO.,
PRINTERS,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
No. 517 Clay street, between Clay and Sansome streets, SAN FRANCISCO. 24v10

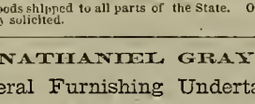
BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery and Sansome, San Francisco. 4v8-tf

JOHN DANIEL,
(SUCCESSOR TO O. GORI)
MARBLE WORKS,
No. 408 Pine st. bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs,
Etc., On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

NATHANIEL GRAY,
General Furnishing Undertaker,
611 Sacramento St., corner of Webb, San Francisco.
Barstow's Metallic Burial Caskets and Cases.
1tf

THEODORE KALLENBERG,
Maker of Models for Inventors.
MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
No. 418 Market street, San Francisco. n7-tf

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Penn.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco, Cal. 10v8-1m



JAMES MACKEN,
COPPERSMITH,
No. 226 Fremont st., bet. Howard & Folsom.
All kinds of COPPER WORK done to order in the best manner. Particular attention paid to Steamboat, Sugar House and Distillery work.
Repairing promptly and neatly attended to.
13v11

Fire, Hydraulic and Suction Hose
And Leather Belting.
M. M. COOK & SON,
801 Battery Street, San Francisco.
Are now manufacturing as above, Fire, Hydraulic and Suction Hose, and Leather Belting, of any dimension and in any quantity which may be desired. Fire Hose and Belting constantly on hand or manufactured to order. Also Saddles and Horse Collars.
The subscribers would respectfully ask purchasers to call and examine their stock—also testimonials of the efficiency of their work from such as have used their hose both for fire and mining purposes. A diploma was awarded to us last year, by the Mechanics' Institute, of this city, and a silver medal this year. 12v11-1y

NEW YORK PRICES.
WATCH REPAIRING AT NEW YORK PRICES.
C. E. COLLINS,
No. 602 Montgomery street, San Francisco.
EXCLUSIVE AGENT
— FOR THE —
AMERICAN
WATCH FACTORY.
A large assortment of these
Superior Watches,
In Gold and Silver Cases,
Constantly on hand, and sold at Factory prices. Also,
ENGLISH AND SWISS WATCHES,
Imported directly from the Manufacturers.
The American Company are now making
VERY FINE WATCHES FOR LADIES.
☞ A large assortment of Gold Chains and Jewelry. 25v10-6m
NEW YORK PRICES.

I. M. WENTWORTH & CO.,
Manufacturers and Jobbers of Ladies, Misses and Children's
Channel Nailed Boots and Shoes,
Of all descriptions. All Goods warranted as represented.
No. 210 Pine street, up stairs.
WANTED—15 or 20 Shoe Bottomers, on Ladies' work. Constant employment will be given to first-class workmen, and the highest wages paid. 13v11

Machinists and Foundries.

H. J. BOOTH. GEO. W. PRESCOTT. J. M. SCOTT.
UNION IRON WORKS!
Corner First and Mission streets,
SAN FRANCISCO.
ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Quartz Mills, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulics, Hay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.
Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter. Also, Scott and Eckart's Adjustable Cut-off Regulator—best in use; W. R. Eckart's Balance Valve for Stationary Engines; Woodward's Patent Steam Pump and Fire Engine.

Boilers.
Locomotive, Flue, Tubular, Upright, Cylinder and Cornish, and every variety of Boiler Work. All sizes of tubes and pipes for pumps.

Amalgamating Machinery.
Wheeler & Randall's Improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Beldin's pan, Veatch's tubs, Prater's concentrators, Wahlee's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.
BLAKE'S PATENT QUARTZ CRUSHERS, of all sizes.

Oil Boring Tools and Machinery,
Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.
We have the facilities for working gold and silver quartz and other ores, to test their value, by the hundred weight or ton.
Russia Iron Screens, of all degrees of fineness and of all qualities of iron.
All work done in the best manner at the lowest cash prices.
21v10 H. J. BOOTH & CO.

Miners' Foundry
— AND —
MACHINE WORKS,
First St., between Howard and Folsom Streets,
SAN FRANCISCO.

EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with despatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as
Steam Engines and Boilers, Flour, Saw and Quartz Mills,
Machinery, Mining Pumps, Amalgamators,
Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.
*** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.
All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.
HOWLAND, ANGEL & KING.

Vulcan Iron Works Company
[ESTABLISHED 1850.]
First, Natoma and Fremont Streets.
IRON FOUNDERS,
Steam Engine and Locomotive
BUILDERS,
Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.
The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as
Mining, Steamship, and Steamboat Machinery,
Railroad Machinery, Locomotives, Car Trucks, Car Wheels, Housings and Irons; and Flouring Mills, Quartz Mills, Sugar Mills, Saw Mills,
Manufacturing Machinery of Every Kind.
Sole Manufacturers of
HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR.
BEATH'S AMALGAMATOR;
HESSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;
BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;
FAUCHERY'S QUARTZ CRUSHER AND WATER WHEEL.
MONVAL'S IMPROVED WATER WHEEL;
LEFFEL'S AMERICAN DOUBLE TURBINE WATER WHEELS.
STEVEN'S PISTON PACKING RINGS.
They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.
Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

JOHN P. GALLAGHER. JOSEPH WEED.
GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.
ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Ship Work in general.
☞ All Jobs promptly attended to. Prices moderate. ☜
No. 125 First street, opposite Minna, next door to Pacific Foundry.
[Removed from Oregon street, between Front and Davis.]

THE IMMIGRATION.—Some idea of the immigration across the plains the present year, says the Stockton *Independent*, may be had by knowing that the records kept at Nebraska City of the number of teams that crossed the plains at that point previous to the first of August, shows that 13,500 vehicles have passed over, averaging five animals to a team, and at least as many human beings as animals have crossed.

THE CROOK.—"My dear friends," said a returned missionary, at one of the late anniversary meetings, "let us avoid sectarian bitterness. The inhabitants of Hindostan, where I have been laboring for many years, have a proverb that, 'Though you bathe a dog's tail in oil, and bind it in splints, yet you cannot get the *crook* out of it.' Now, a man's sectarian bias is simply the crook in the dog's tail, which cannot be eradicated; and I hold that every one should be allowed to wag his own peculiarity in peace."

SANTA CLARA COLLEGE, S. J.,

SANTA CLARA, CAL.

Conducted by the Fathers of the Society of Jesus.

The FIFTEENTH ANNUAL SESSION of this College will commence on

Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging, Washing and Mending of articles washed, School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $350

For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco.

3v11 REV. A. MASNATA, S. J., President.

CALL STABLE.

N. GISHWILLER

Would respectfully inform the public that he has opened a large and well arranged LIVERY STABLE,

On B street, Summit City, Cal.,

(two doors below the Lake House,) where good Saddle and Buggy Horses can be had at all times. Our charges will be reasonable, and we hope, by prompt attention, to merit a share of the public patronage. 10v11-3m

LICK HOUSE,

Corner of Montgomery and Sutter streets,

SAN FRANCISCO.

S. ALSTROM AND G. S. JOHNSON, Prop'rs.

This elegant and commodious Hotel is situated on the principal promenade street of San Francisco. The Lick House is finished and furnished with a degree of beauty and excellence unsurpassed, combining all the modern applications and arrangements of a FIRST CLASS HOTEL, thus offering superior inducements to the traveling public. The proprietors assure their patrons that the Lick House shall not be excelled in any of its appointments, or in polite attendance or attention to all the comforts of its guests. 15v11

GEORGE T. PRACY,

MACHINE WORKS,

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

SAN FRANCISCO.

STEAM ENGINE, FLOUR AND SAW MILL And Quartz Machinery. Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

☞Special attention paid to Repairing.☜ 9y-3

UNION IRON WORKS, Sacramento.

WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Dunbar's Patent Self-Adjusting Steam Piston PACKING, for new and old cylinders, manufactured to order.

Front Street, between N and O streets,

14v11 SACRAMENTO CITY.

LEWIS COFFEY. J. S. RISDON

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

MITCHELL'S

COMBINED

FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

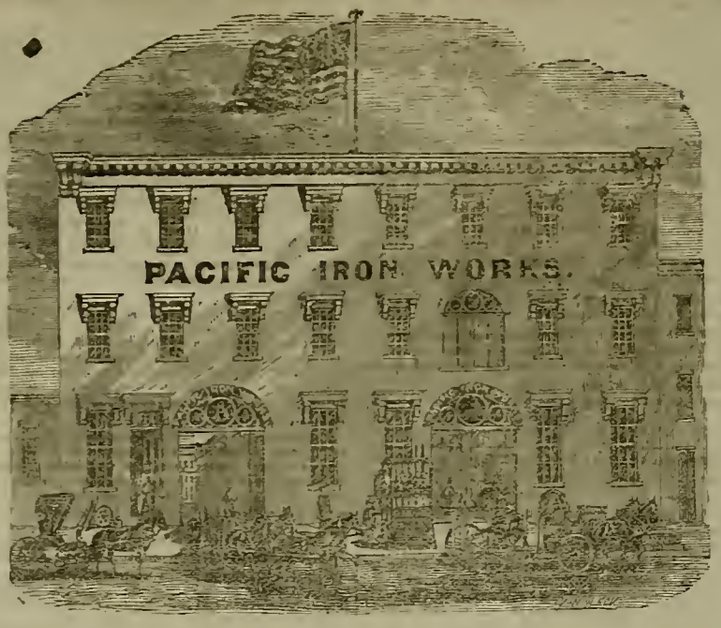
The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with GALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.

San Francisco, Aug. 22d, 1865. 10v11-3m



THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting Machinery of the most approved construction. Flour, Saw, and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Buttery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully solicited.

GODDARD & COMPANY.

BY AUTHORITY OF THE STATE OF CALIFORNIA.

Having fully complied with the law by a deposit of $525,000 bonds of the State of California, and the United States.

BIGELOW & BROTHER,

GENERAL INSURANCE AGENTS,

FIRE, MARINE AND LIFE INSURANCE,

Capital Represented.....$15,000,000.

California Deposit.....$525,000.

Office, Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.

LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets	$1,500,000
HOME INSURANCE COMPANY, of New York, Assets	3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets	2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets	1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets	600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets	600,000

CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.

Policies issued on Freights, Cargoes, and Treasure, from and to all parts of the World. Voyage War Risks taken on Hulls.

Fire Insurance Policies issued on all kinds of Insurable Property in the Country or City. Losses payable in Gold Coin of the United States.

We represent the oldest and best Companies in the United States, and offer as favorable terms as any agency on this coast.

Losses paid immediately on adjustment.

BIGELOW & BROTHER,

17-6m General Agents.

A. ROMAN & COMPANY,

BOOKSELLERS, IMPORTERS and PUBLISHERS,

417 and 419 Montgomery Street, San Francisco,

Offer for sale a large and well-selected stock of Works on the Mechanical Arts,

Mining, Assaying, Metallurgy, Engineering, Architecture and Carpentry, Chemistry, Drawing, Agriculture, Geology, Mineralogy, etc.

☞All new works received as soon as published.☜

FOR SALE AT THE LOWEST PRICES.

17v11-1m ORDERS BY MAIL PROMPTLY AND CAREFULLY ATTENDED TO.

PALMER, KNOX & CO.,

Golden State Iron Works,

Nos. 10, 21, 23 and 25 First Street,

SAN FRANCISCO.

MANUFACTURE ALL KINDS OF

MACHINERY,

STEAM ENGINES AND QUARTZ MILLS

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S

NEW GRINDER AND AMALGAMATOR,

HEPBURN & PETERSON'S

AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 15v10q-tf

FULTON

Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

SAN FRANCISCO

Foundry and Machine Works,

N. E. Cor. Fremont and Mission streets,

Manufacturers of

Marine and Stationery Engines

Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.

—ALSO—

Wine, Cider, Cotton and Tobacco Presses of the latest Improved Patterns.

Brodie's Improved Patent WIND BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Bann & Guiod's Amalgamator and Separator; W. W. Tupper's Patent Sectional Grate Bar; Coal Oil Well Boring Machinery complete, on hand.

STEAM ENGINES AND BOILERS,

Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.

MACHINERY, OF ALL DESCRIPTIONS,

Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates.

6v11-1y DEVOE, DINSMORE & CO.

Novelty Iron Works,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON Hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a SURE REMEDY. Send for a Circular.

E. T. STEEN.

105, 107 and 109 Fremont st., cor of Mission,

SAN FRANCISCO 21v9tfq

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, San Francisco. qy29-t

JOHN LOCHHEAD'S

STEAM ENGINE WORKS,

Beale Street, near Mission Street,

SAN FRANCISCO.

Steam Engines of every description built to order—Marine Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.

26v9q JOHN LOCHHEAD, Practical Engineer.

OUR NEW YORK AGENCY.

Mr. Geo. M. Newton is our authorized agent in New York City, and will receive advertisements and subscriptions for the Mining and Scientific Press at regular rates. Sample copies of our weekly and monthly issues can be procured by calling upon him, at the office of the "Stockholder," No. 72 William street.

PHILADELPHIA AGENCY,

Parties wishing to subscribe or advertise in the Mining and Scientific Press can be accommodated by calling upon our Agent, Mr. Turner Hamilton, at the Assembly Building, 106 South Tenth street, Philadelphia, Pa., where sampl copies of our publications can always be found.

To Blacksmiths.

An excellent, strong lad, from the interior, 17 years of age, desires to learn the Blacksmith's trade. His parents wish him to engage with a reputable firm, and learn his business thoroughly. Address, or inquire at the office of the Mining and Scientific Press. 2v1ltf

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Bolinas Petroleum Company, Bolinas Township, Maria County, California.

Notice.—There are delinquent, upon the following described stock, ou account of assessment levied on the 2d day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Borker & Rosenfield	20	100	$50 00
Butler, W	59	10	50 00
Devaul, Jno	hal 64	80	15 00
Finley, H	34	95	47 50
Fox, H L	10	50	25 00
Foster, L J	23	25	12 50
Higglas, D	24, 31	35	17 50
Levy, E	42 to 57 inclu	25	12 50
Parker, A P	29, 32	48	24 00
Ramsey, J D	5	5	2 50
Rohl, Jno	4	68	2 00
Smith, H R	27	25	12 50
Sharp, W H	60	10	5 00
Vanderwater, W	not issued	100	50 00
Wilder, D D	33	12	6 00
Washburn, Jas	68	55	27 50

And in accordance with law and au order of the Board of Trustees, made on the 2d day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, 611 Clay street, Room 8, San Francisco, on the 20th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

nov4 W. L. KIRBY, Secretary.

Chiplonena Mining Company, District of Ures, Sonora, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of November, 1865, an assessment of five dollars ($5) per share was levied upon the capital stock of said Company, payable on the 6th day of November, 1865, in United States gold and silver coin, to the Secretary, 318 California street, (up stairs.)

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

JOHN F. LOHSE, Secretary:

Office, 318 California street, San Francisco, Cal. nov4

Evoca Consolidated Copper Mining Company: Location of Works—Court Hill District, near Black's Ferry, Del Norte County, California.

Notice.—There are delinquent upon the following described Stock, on account of Assessment levied on the 5th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	Number of Certificate.	Number of Shares.	Amount.
E S Morison	13	3	$1 50
A H Brockway	58	50	25 00
A H Brockway	59	50	25 00
A H Brockway	80	12	6 00
Wm B Cooke	76	12	6 00
J W Tucker	82	112	56 00
Sarah O'Donnell	99	12	6 00
Sarah O'Donnell	100	25	12 50
Sarah O'Donnell	101	25	12 50
Sarah O'Donnell	102	25	12 50
Sarah O'Donnell	103	25	12 50
A O'Neil	109	12	6 00
A O'Neil	110	50	25 00
A O'Neil	111	50	25 00
P B Cornwall	143	10	5 00
P B Cornwall	144	10	5 00
P B Cornwall	145	10	5 00
P B Cornwall	146	10	5 00
P B Cornwall	147	10	5 00
P B Cornwall	148	12	6 00
J L Moody	115	112	56 00
J L Moody	125	88	44 00
E B Holmes	123	25	12 50
F B Holmes	120	25	12 50
R C Rogers	130	112	56 00
J B Baker	151	20	10 00
W H Beruard	186	50	hal dua 14 00
D R Beckford	204	20	10 00
Jas M Olmstead	153	3	1 50
M H Fowler	not issued	20	hal due 5 00
Chas Ashtou	not issued	20	hal due 5 00
Chas Yeomans	184	36	18 00
Chas Yeomans	185	20	10 00
Chas Yeomans	191	50	25 00
Chas Yeomans	201	50	25 00
E Barnes	193	15	7 50
A Hower	194	5	2 50
F H Rogers	198	12	6 00
H D Oliphant	200	86	43 00
H D Oliphant	199	112	56 00
G W Guthrie	168	19	9 50
G B McAneny	171	62	31 00
G B McAneny	172	100	50 00

And in accordance with law, and an order of the Board of Trustees, made on the 5th dny of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, at No. 302 Montgomery street, room No. 6 (third floor), San Francisco, Cal., on the 20th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

nov4 CHARLES E. ABBOT, Secretary.

Germania Mount Diablo Coal Mining Company, Mount Diablo District, Contra Costa County, California.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 3d day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
M R E Becker	5	1	$3 00
Ph H Graser	11	1	3 00
Oscar Heim	13	1	3 00
Gust Leipnitz	19	1	3 00
John A Schaertzer	29	1	3 00
Louis Westerfeld	34	1	3 00
Louis Westerfeld	35	1	3 00
Wm Westerfeld	36	1	3 00

And in accordance with law, and an order of the Board of Trustees, made on the 3d day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at the auction rooms of Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on Wednesday, the 22d day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

E J. PFEIFFER, Secretary.

Office, 210 Post street, near Dupont. nov4

Jefferson Gold and Silver Mining Company, Lander County, Nevada.

Notice.—There are delinquent upon the following described stock, on account of assessment No. 2, levied September 25, 1863, of fifty cents; No. 3, December 11, 1863, of fifty cents; No. 4, February 4, 1864, of one dollar, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. 2.	No. 3.	No. 4.	No. Cert.	No. shs.	Amt.
W K Smith	$10	$10 00	$20 00	4	20	$ 40 00
L B Seaver	hal 15	15 00	30 00	23, 26	40	60 00
J T Cassell	5 03	10 00	10	10	15 00	
Clarke & Blakeley	4 63	9 25	44	9¼	13 88	
S T Curtis	40 00	80 00	95, 102 ea	10	120 00	
S T Curtis	6 25	12 50	103	12½	18 75	
Jas McGahey	3 12	6 25	22	6¼	9 37	
Chas Pinkerton	4 62	9 25	31	9¼	13 87	
J S Brown		11 00	130	11	11 00	
J S Brown		9 00	140	9	9 00	
S O Clifford		12 50	112	12½	12 50	
S O Clifford		25 00	131	25	25 00	
P F Doling		20 00	3	20	20 00	
A J Donzel		10 00	5	10	10 00	
G H Faulkner		5 00	41	5	5 00	
Jos Gilbert		20 00	65	20	20 00	
Jos Gilbert		20 00	66	20	20 00	
Jos Gilbert		20 00	67	20	20 00	
Jos Gilbert		6 00	135	6	6 00	
W B Gilham		7 00	133	7	7 00	
W B Gilham		5 00	40	5	5 00	
N B Jacobs & Co		10 00	42	10	10 00	
J L Janes		15 00	143	15	15 00	
H V Rex		12 00	134	12	12 00	
J O Sweetland		5 00	129	5	5 00	
H C Woodford		20 00	12	20	20 00	
N A Watson		10 00	115	10	10 00	
N A Watson		25 00	144	25	25 00	
N A Watson		46 50	147	46½	46 50	

And in accordance with law and an order of the Board of Trustees, made on the 31st day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 1st day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. nov4

Madison Gold and Silver Mining Company, Lander County, Nevada.

Notice.—There are delinquent, upon the following described stock, on account of assessment No. 3, levied on the 27th of November, 1863, of fifty cents per share, and No. 4, levied February 4th, 1864, of one dollar per share, the several amounts set opposite the uames of the respective shareholders, as follows:

Names.	No. 3.	No. 4.	No. Cert.	No. Shs.	Amt.
B C Austin	$12 50	$25 00	68	25	$37 50
A J Bryant	2 50	5 00	99	5	7 50
S O Clifford	4 50	9 00	51	9	13 50
S O Clifford		45 00	53	45	45 00
S O Clifford		5 00	54	5	5 00
S O Clifford		5 00	56	5	5 00
S O Clifford		5 00	57	5	5 00
S O Clifford		5 00	58	5	5 00
S O Clifford		71 50	63	71¼	71 50
S O Clifford		14 00	118	14	14 00
Chas G Going	hal	2 25	101	6¾	2 25
N B Jacobs	5 00	10 00	75	10	15 00
Chas G Going		10 00	104	10	10 00
Chas G Going		10 00	105	10	10 00
P McAllister		25 00	16	25	25 00
P McAllister		25 00	17	25	25 00
P McAllister		25 00	18	25	25 00
P McAllister		25 00	19	25	25 00
P McAllister		10 00	21	10	10 00
J C Morrison Jr	2 50	5 00	98	5	7 50
D P McHarg		10 00	108	10	10 00
C M Pryor	20 00	40 00	43	40	60 00
C M Pryor		5 00	37	5	5 00
B L Plummer		10 00	83	10	10 00
L A Spitzer		5 00	126	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 1st day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. nov4

Economy in Advertising.—The Mining and Scientific Press is the best and most economical mining advertising medium in this city. Our terms are less than one half the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The Press contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

Removal.

The Office of the Mining and Scientific Press has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive Job Printing Office.

San Francisco, April 10th, 1865.

Mount Davidson Gold and Silver Mining Company, Virginia District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of November, 1865, an assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 3d day of November, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 20th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

G. PARDOW, Secretary.

Office, 53 Montgomery Block, San Francisco. nov4

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine County, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of October, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable on the 31st day of October, 1865, in United States gold and silver coin, to the Secretary, at his office, No. 55 Montgomery Block, City and County of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, southeast corner of Washington and Montgomery streets, San Francisco. nov4

Table Mountain Copper Mining Company, Stanislaus District, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 1st day of November, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, in San Francisco, or to J. M. Pike, Superintendent, at Copperopolis.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 18th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

EDWARD C. LOVELL, Secretary.

Office, No. 436 Jackson street, San Francisco, California. nov4

Mining Notices--Continued.

New Mining Advertisements to be found under another heading.

Astor Gold and Silver Mining Company, Gold Hill Mining District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 9th day of October, 1865, an assessment of one dollar and fifty cents ($1.50) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, No. 436 Jackson street, San Francisco, or to E. A. Hyde, Superintendent, Gold Hill.

Any stock upon which said assessment shall remain unpaid on Saturday, the 11th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 27th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco. oct4

Chloride Ledge Gold and Silver Mining Company. Location of mine, Blue Mountain District, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 16th day of October, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 606 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. H. SMITH, Secretary.

Office, No. 606 Montgomery street, San Francisco. oct21

Comet Petroleum Company, Humboldt County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 13th day of October, 1865, an assessment of thirty (30) cents per share was levied upon the capital stock of said Company, payable on the 14th day of October, 1865, in United States gold and silver coin, to the Secretary, at the office of said Company, in San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 4th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

L. CROSBY, Secretary.

Office, No. 36 Exchange Building, N. W. corner Washington and Montgomery streets. oct4

Colorado Mill and Mining Company. The Annual Meeting of the Stockholders of the above Company, for the election of a Board of Trustees for the ensuing year, will be held on Monday, November 13th, 1865, at 7 o'clock P. M., at the office of the Company, 509 Clay street, San Francisco, California.

G. M. BURNHAM, Secretary.

San Francisco, Oct. 12, 1865. oct4

Notice.—The Annual Meeting of the Stockholders of the Caledonia Tunnel and Mining Company, for the election of Trustees for the ensuing year, will be held at the office of the Secretary, on Monday, November 13th, at 3 o'clock P. M.

J. M. BUFFINGTON, Secretary.

San Francisco, Oct. 13, 1865. oct4

Camargo Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of October, 1865, an assessment of five dollars ($5) per share was levied upon the capital stock of said company, payable immediately, in United States currency, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. oct21

Eagle Quartz Mining Company—Location of Works, Amador County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 23d day of October, 1865, an assessment of seventy-five (75) cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, 605 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

JOHN M. BURNETT, Secretary.

Office, 605 Montgomery street, San Francisco, Cal oct28

Emilia Mining Company, State of Guerrero, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 26th day of October, 1865, an assessment of twenty-five (25) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, No. 55 Montgomery Block, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, San Francisco, Cal. oct28

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 18th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Adams, Mrs. Anna	not issued	5	5 00
Ament, H E	159	5	5 00
Brown, Thomas	149	5¾	6 00
Brown, Thomas	not issued	4	4 00
Brown, Mrs L C	142	5	5 00
Bluman, F	378	5	5 00
Bowland, Wm	364	5	5 00
Coon, M R	47	50	50 00
Coon, M R	51	8	8 00
Coon, M R	351	5	5 00
Coon, M R	352	4	4 00
Curley, James	384	5	5 00
Cornwell, J F	40, 41, 42, 43	10 ea 40	40 00
Castle, Levi	191	5	5 00
Demming, Wm	73	10	10 00
Dutton, D	38	9	9 00
Dutton, D	369	15	15 00
De Groff, Wm	70, 71, and 405	10 ea 30	30 00
De Groff, Wm	404	15	15 00
Farmer, L	not issued	1	1 00
Grigsby, T L	93	10	10 00
Grigsby, A D	95	10	10 00
Grigsby, R F	94	10	10 00
Grigsby, A F	not issued	4	4 00
Griffith, Wm P	226	10	10 00
Griffith, Wm P	227 and 228	5-ea 10	10 00
Gardner, C A	278	2	2 00
Hendrikson, H	123	5	5 00
Hollingsworth, H	161	5	5 00
Hastie, Robert	341	10	10 00
Hastie, Robert	353	5	5 00
Joy, M	not issued	13½	14 00
Joaes, Wm	224, 225, 273 and 274	5-ea 20	20 00
Jones, Wm	223 and 285	10-ea 20	20 00
Justice, J D	306	5	5 00
Klepsig, J C F	91	4	4 00
Kercheval, S A	313	10	10 00
Mead, Johanna	6	5	5 00
Mudgett, John	121 and 321	5-ea 10	10 00
Morrison, James	144	5	5 00
Mercer, Mrs Susan	382	10	10 00
McGovern, P H	300 and 305	5-ea 10	10 00
Miller, John	254	5	5 00
McCuen, J H	304	10	10 00
Marks, M	286	5	5 00
McCord, James H	421	1	1 00
Pearson, I N	114, 115, 163, 375 and 376	5-ea 25	25 00
Pearson, I N	370	20	20 00
Pearson, I N	372, 373 and 374	10-ea 30	30 00
Pearson, I N	371	1	1 00
Palache, F	97 and 213	5-ea 10	10 00
Palache, E	284	10	10 00
Senter, Riley	293	20	20 00
Stall, John	not issued	1	1 00
Townsend, T B	210	10	10 00
Vanu, Matthew	not issued	5	5 00
Wines, Charles B	120	5	5 00
Winnie, J P	188	10	10 00
Winnic, J P	189	8	8 00
Winnie, J P	190	2	2 00
Wiunie, Mrs E G	186 and 187	5-ea 10	10 00
Wyckoff, J L	18	10	10 00
Whitton, Green	126 and 127	5-ea 10	10 00
Whitton, C J	76	10	10 00
Whitton, R J	409	10	10 00
Whitton, R J	410, 411 and 412	5-ea 15	15 00
Whitton, R J	34	3¾	4 00
Whitton, Wm H	78	12	12 00
Whitton, Wm H	330 and 331	10-ea 20	20 00
Whitton, Wm H	332	7	7 00
Whitton, Wm H	333	5	5 00
Whitton, Wm H	339	40	40 00

And in accordance with law, and an order of the Board of Trustees, made on the 18th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of Messrs. Olney & Co., No. 626 Montgomery street, San Francisco, Cal., on the 6th day of November, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.

Office, 333 Montgomery street, San Francisco. oct21

Hancom Copper Mining Company, Low Divide District, Del Norte county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of October, 1865, an assessment of fifteen cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, 609 Market street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 11th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 27th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

S. S. SWEET, Secretary.

Office, 609 Market street, San Francisco, Cal. oc14

Hornet Gold and Silver Mining Company. Location of works, Lander County, Nevada.

Notice is hereby given, that in accordance with an order made this day by the Board of Trustees of the Hornet Gold and Silver Mining Company, there will be sold at public auction, at the office of the Company, 402 Front street, by Jones & Bendixen, auctioneers, on Tuesday, the 21st day of November, 1865, at 1 P. M. of that day, to the highest bidder, for cash, in United States coin, so many shares of the capital stock of said company standing in the names of the following shareholders as will be necessary for the payment of an assessment of fifty cents per share, duly levied thereon by the Board of Trustees, on the 15th day of February, 1864, together with expenses of advertising and sale, to wit:

Names.	No. Certificates.	No. Shares.	Amount.
Argyras, B	88	5	$2 50
Addleberger, C F	8, 9, 10 each	10	15 00
Addleberger, C F	14	5	2 50
Baker, Fred	28, 29, 30, 32 each	10	20 00
Baker, Fred	35, 36, 37 each	5	7 50
Brown, W J	85	20	10 00
Casen, J D	76	10	5 00
Casen, J D	77	12½	8 25
Coddington, Geo W	86	20	10 00
Kerley, J C	38, 39 each	20	20 00
Kerley, J C	40, 41, 42 each	10	15 00
Kerley, J C	43	5	2 50
Kerley, J C	44	6	3 00
Massey, J M	53, 55 each	22½	22 50
Massey, J M	56	12½	6 25
Massey, J M	57	20	10 00
Massey, J M	60	10	5 00
Massey, J M	62	5	2 50
Ramsey, L W	72, 73, 74 75 each	10	20 00
Roman, Herman	87	10	9 50
Simpers, Geo W	81	20	10 00
Simpers, Geo W	82, 83, 84 each	10	15 00
Todd, Jos	1. 2. 3, 4, 5 each	10	25 00
Todd, Jos	6	12½	6 25
Todd, Jos	7	5	2 50
Tureman, C W	78	20	10 00
Tureman, C W	78, 80 each	10	10 00
Welton, E W	48, 49, 50, 51, 52 each	10	25 00
Wade, J P	63, 64 each	5	5 00
Wade, J P	85, 08, 67 each	10	16 00
Campbell, M	89, 90 each	5	5 00

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco.

San Francisco, Oct. 19, 1865. oc21

Honest Miner Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 28th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Allen, H H	bal of 294	6	$3 00
Chevers, W H	46	6	3 00
Frank, J	296	8½	4 25
Hoffman, S	297	3	1 50
Morrissy, Jno	164	2	1 00
Rosenbaum, F H	148	1	50
Reed, J L	290	7	3 50
Wightman, Jno	300	2	1 00
Work, Geo	291	2	1 00
Shipley, A J	298	2	1 00

And in accordance with law, and an order of the Board of Trustees, made on the 28th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Company, by Jones & Bendixen, on the 13th day of November, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. oc28

Jewett Gold and Silver Mining Company, Gold Hill District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 11th day of October, 1865, an assessment of one ($1) dollar per share was levied upon the assessable capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Friday, the 10th day of November, 1865, will be advertised as delinquent, and unless payment shall be made before, will be sold on the 25th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

O. M. BURNHAM, Secretary pro tem.

Office, 509 Clay street. oc14

Keokuk Gold, Silver and Copper Mining Company, Clayton Mining District, Contra Costa County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of October, 1865, an assessment of ten (10) cents per share was levied upon the capital stock of said Company, payable on the 21st day of October, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, 308 and 310 Front street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 4th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

A. R. WINEGAR, Secretary.

Office, 308 and 310 Front street, San Francisco, Cal. oc21

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

Knox Gold and Silver Mining Company, Silver Mountain District, Alpine County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of October, 1865, an assessment of forty (40) cents per share was levied upon the capital stock of said Company, payable on the said 7th day of October, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, No. 2 Odd Fellows' Hall, in the City and County of San Francisco.

Any stock upon which said assessment shall remain unpaid on the 11th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 25th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

SAMUEL P. HOWES, Secretary.

Office, No. 2 Odd Fellows' Hall, San Francisco, Cal. oct4

La Favorita Mining Company, Montezuma District, Sonora, Mexico.

SAN FRANCISCO, Oct. 25, 1865.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 25th day of October, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 26th day of October, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, 429 Sacramento street, in the City of San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of December, 1865, to pay the delinquent assessment, together with the costs of advertising and expenses of sale. By order of the Board of Trustees.

E. WASSERMAN, Secretary.

This assessment will liquidate the Company's indebtedness in full.

oc28 E. WASSERMAN, Secretary.

Mammoth Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 18th day of September, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allred, W C	125, 126, 127, 128 10 ea	40	40 00
Allred, W C	not issued	155	155 00
Allstrop, Thomas	58	5	5 00
Arnold, B W	183	3½	3 35
Arnold, Mrs B W	223, 224 5-ea	10	10 00
Austin, H S	200	5	5 00
Byam, H S	8	20	20 00
Byam, H S	22	12	12 00
Butterfield, D C	90	6½	8 50
Butterfield, D C	100	6	8 00
Boggs, Geo W	122, 123 5-ea	10	10 00
Boone, Harvey	123, 124 10-ea	20	20 00
Berg, John A	146	5	5 00
Browu & Kent	292, 296 10-ea	20	20 00
Brown & Kent	293	8	26 00
Browu & Kent	177, 294, 297 5-ea	15	15 00
Brown & Kent	298	7	7 00
Browu & Kent	300	230½	239 50
Brown, Wm	259, 280 10 ea	20	20 00
Browu, Wm	261	5	5 00
Bolts, John	288	10	10 00
Bent, Charles	318	10	10 00
Crawford, Wm	not issued	44	44 00
Cornwell, James F	1, 2 10-ea	20	20 00
Clark, J W	314, 315 5-ea	10	10 00
Clark, J W	318	3½	3 50
Curran, B	216	5	5 00
Curran, Mrs B	168	5	5 00
Curran, Mrs B	267	23½	29 50
Collins, G L	278	5	5 00
Christianson, Phillip	113	10	10 00
Clark, Thomas	204	5	6 00
Clark, P A	327, 328 5-ea	10	10 00
Creamer, M	275	33	33 00
Dutton, David	6	8	6 00
Dyson Z	not issued	8	8 00
DeGroff, Wm	92	5	5 00
Douglass, R E	219, 220 10-ea	20	20 00
Douglass, R E	221	5	6 00
Eckoll, A W	235	10	10 00
Elgin, W A	250	10	10 00
Ellis, F M	184	5	5 00
Francis, J H	116	10	10 00
Francis, J G	212	4	4 00
Freeman, H	152	5	5 00
Gray, Thomas	87	10	10 00
Gilbert, S W	203	10	10 00
Gilliam, John	211	6	6 00
Hill, V R	135	6½	6 50
Hill, V R	160, 163 5-ea	10	10 00
Hill, V R	165	10	10 00
Herbert, A W	12	10	10 00
Harmon, Wm	234, 249 5-ea	10	10 00
Honsinger, G B	253, 254, 255 10-ea	30	30 00
Honsinger, G B	257	5	5 00
Housinger, G B	258	6	6 00
Hudson, David	283	25	25 00
Justice, J D	88, 281 5-ea	10	10 00
Justice, Emeliah	04	5	5 00
Jetter, Jacob	100	12½	12 50
Kerby, Z C	89	7	7 00
Kent, Wm	262	10	10 00
Kent, Wm	264	6	6 00
Kent, Wm	265	1-6	16
Kent, Wm	274	3	3 00
Larsou, C	140	12	12 00
Larson, C	141, 142 25-ea	60	60 00
Larson, C	180	13	13 00
Larson, C	not issued	61½	61 50
Lock, T J	71	10	10 00
Lock, T I	78, 77 20 ea	40	40 00
Lock, T J	73, 74 5-ea	10	10 00
Levy, G N	145	10	10 00
Lustig, Isaac	151	5	5 00
Lachman, Louis	213, 215 6 ea	10	10 00
Luciani, Charles	218	3½	3 50
Larson, Erick	272	20	20 00
Lefferts, James	not issued	5	6 00
McGee, James	11	10	10 00
Morrison, James	87	5	6 00
Mecklenborg,	116	5	5 00
Marks, M	138	5	5 00
Marks, Isaac	139	5	5 00
McCormick, H M	197	5	5 00
Mylett, James	222, 248 10-ea	20	20 00
Mylett, James	247	5	5 00
McComber, J B	276	7	7 00
McComber, J B	277	10	10 00
Mead, George	285	6	6 00
Overholt, Wm G	47	10	10 00
Owens & Pendegast	313	10	10 00
Pearson, I N	104, 153 10-ea	20	20 00
Pearson, I N	154, 155, 105, 108 5-ea	20	20 00
Pearsou, I N	24	6½	6 50
Phillips, J W D	150	5	5 00
Phillips, W L	175, 178 5-ea	10	10 00
Prescott, A A	102	7½	7 50
Parker, John K	317	5	5 00
Porter, Geo K	319	10	10 00
Reed, B K	69, 70 5-ea	10	10 00
Rickard, A	90	10	10 00
Rickard, A	91	35	35 00
Shear, W C	226, 227, 228, 229, 230 10-ea	50	50 00
Shear, W C	231	11½	11 50
Scott, H D	169	15	15 00
Scott, H D	291	40	40 00
Smith, M P	207, 208, 209 10-ea	30	30 00
Swinerton, D E	217	4	4 00
Sullivan, Mathew	248	10	10 00
Struben, Jacob	282	10	10 00
Stilwagon, W W	not issued	5	5 00
Took, A	131	5	5 00
Toy, Daniel	168, 167 5-ea	10	10 00
Toy, Daniel	289	13	12 00
Toy, Daniel	236	29½	29 50
Tadlock, J C	196	5	5 00
Whitton, M S	85	2½	2 50
Whitten, M S	25, 29 50-ea	100	100 00
Whitton, M S	27	20	20 00
Whitton, M S	28, 30, 50, 31, 34, 37 10-ea	90	90 00
Whitton, R J	49	10	10 00
Whitton, R J	53, 54 5-ea	10	10 00
Whitton, R J	90	13	13 00
Whitton, R J	not issued	10	10 00
Whitton, Wm H	43, 44, 45 5-ea	15	15 00
Whitton, Wm H	42	20	20 00
Whitton, Wm H	40	25	25 00
Whitton, Wm H	66	2½	2 50
Weed, Orlando	60, 61 5-ea	10	10 00
Weed, Orlando	279	10	10 00
Wise, David	95	5	6 00
Wheeler, W J	not issued	60	60 00
Williams, Samuel	173	10	10 00
Wickham, Wm	not issued	25	25 00
Watkins, Olivia E	199	6	5 00
Winn, Marshall	232, 233, 251 5-ea	15	15 00
Walsh, Martin	269, 271 6-ea	12	12 00
Zacek, Joseph	288	23	23 00
York, E M	305, 306 6 ea	10	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 18th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the salesrooms of Olney & Co., 628 Montgomery street, San Francisco, on the 13th day of November, 1865, at the hour of 2 o'clock, P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.

Office, 338 Montgomery street, San Francisco. oc28

Maria Silver Mining Company, Chihuahua, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of October, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, in this city.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

AUGUST KUNAST, Secretary.

Office, 540 Washington street, San Francisco, Cal. oc21

Oroville Gold and Silver Mining Company, Oroville, Butte County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of October, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 434 California street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 2d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

oc14 ROBT. P. LEE, Secretary.

Ontario Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 19th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
T A Waterman	94	4	$2 00
T A Waterman	195	10	5 00
Wm Bell	166	1	50
R S Eells	67	5	2 50
R S Eells	68	5	2 50
R S Eells	69	5	2 50
R S Eells	70	5	2 50
R S Eells	71	5	2 50
R S Eells	72	5	2 50
D Rose	220	5	2 50
D Rose	222	5	2 50
G A Pituey	290	10	5 00
G A Pituey	291	10	5 00
J W Dunham	310	10	5 00
E S Webber	313	5	2 50
G W Mason	314	10	5 00
E Stahle	315	10	6 00
J H Taher	310	3	1 50
J D Chaco	193	5	2 50
J D Chaco	198	5	2 50
J D Chace	237	10	5 00
J D Chace	238	10	5 00
J D Chace	239	10	5 00
J D Chace	241	5	2 50
J D Chaco	242	5	2 50
J D Chace	244	5	2 50
J D Chace	248	5	2 50
J D Chace	300	2	1 00

And in accordance with law, and an order of the Board of Trustees, made on the 19th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of Maurice Doro & Co., No. 327 Montgomery street, San Francisco, on the 9th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

A. H. BEWLEY, Secretary.

Office, 323 Montgomery street. oc21

Lost or Stolen.

There was lost, or stolen, from our collection of minerals, etc., at the Mechanics' Fair, a sample of the late Telegraph Cable. The lost piece is three inches in length, by one and one-sixteenth in diameter; brass ferrel on each end with raised letters, viz: "Glass, Elliott & Co., Contractors, London." Any person who will return the article to this office, or give information of its whereabouts, will be suitably rewarded.

DEWEY & CO.,
Publishers Mining and Scientific Press.

Segregated Belcher Mining Company, Gold Hill District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of October, 1865, an assessment of four dollars per share was levied upon the capital stock of said Company, payable on the 28th day of October, 1865, in United States gold and silver coin, to the Secretary, 318 California street, City and County of San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOHN F. LOUSE, Secretary.

Office, No. 318 California street (up stairs), San Francisco, California. oc28

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment (No. 7) of fifty cents per share, levied September 25th, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Hnrdy, Jas H	bal 51	5	$2 50
Work, Geo	195	2	1 00
Sharp, G F	46	4	2 00

And in accordance with law, and an order of the Board of Trustees, made on the 25th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at the office of the Company, No. 228 Front street, San Francisco, Cal., by Jones & Bendixen, auctioneers, on Wednesday, the 15th day of November, 1865, at 3 o'clock P. M., to pay the delinquent assessment, together with costs of advertising and expenses of the sale.

E. J. DRINKHOUSE, Secretary.

Office, No. 228 Front street, San Francisco, Cal. oc28

Santa Cruz Petroleum Oil Works Company, Santa Cruz County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 23d day of October, 1865, an assessment (No. 14) of forty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, R. WEGENER, 415 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Thursday, the 14th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale By order of the Board of Trustees.

R. WEGENER, Secretary.

Office, 415 Montgomery street, San Francisco, Cal. oc28

Notice.—The Stockholders of the San Fernando Petroleum and Mining Company are requested to attend a meeting at the Office of the Company, on the first Monday in October, for the purpose of electing officers for the ensuing year.

A. N. CLARKE, Secretary.

ADJOURNMENT.—The above meeting was adjourned by a minority of the Stockholders, to the first Monday in November.

A. N. CLARKE, Secretary.

Office, 121 Montgomery street, San Francisco. oc7td

Wide West Mining Company, Esmeralda District, Esmeralda County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of October, 1865, an assessment of five ($5) dollars per share was levied upon the capital stock of said Company, payable immediately, in gold coin of the United States of America, to the Secretary, at the office of the Company, No. 103 California street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 4th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale.

J. P. DAVIS, Secretary.

Office, 103 California street, San Francisco. oc21

Yosemite Mining Company, Oro Fino District, Humboldt county, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 20th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Chandler, Theo S	121	10	$12 50
Folsom, A	70	25	31 25
Folsom, A	71	25	31 25
Folsom, Mrs R A	87	25	31 25
Huntington, U	07	25	31 25
Huntington, H S	86	100	126 00
Hodges, W H	49	6	6 25
Hodges, W H	60	16	18 75
Hodges, N M	81	35	43 75
Harmon, E F	01	25	31 25
Halliburton, A	93	25	31 25
Merchant, Joel	50	6	6 25
Morchaut, Joel	51	5	6 25
Morchant, Joel	79	20	26 00
Merchant, Joel	140	4	5 00
Whittier, J M	120	10	12 50
Wheaton, Thos	56	25	31 25
Wheaton, Thos	57	25	31 25
Wheaton, Thos	58	25	31 25
Wheaton, Thos	59	25	31 25
Wade, W N	142	220	275 00
Woodman, W W	77		
Woodman, W W	125	10	12 60
Woodman, W W	126	5	6 25
Woodman, W W	139	5	6 25

And in accordance with law, and an order of the Board of Trustees, made on the 20th day of September, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the office of the Company, by Jones & Bendixon, auctioneers, on Monday, the 6th day of November, 1865, at the hour of 12½ o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

S. O. PUTNAM, Secretary.

Office, 402 Front street, San Francisco. oc21

MONEY IN GRAVES.—Workmen are engaged at St. Louis in removing bodies from the old cemetery to the new one, and in digging up the graves have found money sufficient to make the work interesting. In one grave the sum of $500 in French gold was dug up; it appeared to have been sewed up in the collar of the owner's coat, who doubtless had died of cholera, during the epidemic of 1840, and had been buried without being undressed. In another grave $150 were unearthed, and $120 in another.

A horse was poisoned to death a few days ago, in Boston, by chewing green house-paper which was lying in a barrel. He died in a few minutes.

C. T. MEADER, of Stockton, has donated twenty-eight ingots of copper, which are to be cast into a bell for one of the school houses of that city.

Deserved Testimonial.

GRIZZLY FLAT, Oct. 18, 1865.

MESSRS. HUNGERFORD & HENDY—*Gentlemen:* We have run your Concentrator for several days past, in our 5 stamp Mill, and, as far as can be ascertained at present, it is a perfect success. When running at the rate of from two hundred and ten to two hundred and twenty-five revolutions per minute, we have lost neither quicksilver nor sulphurets. Formerly, when using copperplate riffles and blankets, we found that in spite of the utmost precaution, quicksilver would escape over them all. Wishing you all success, we remain Your obedient servants,

E. A. BIGLER.
S. F. DAVIS.

17vIIqy

Spectacle Emporium.

Purchase none but perfect Spectacles adapted to your sight, from

C. MULLER,

OPTICIAN,

No. 3 Montgomery street, Masonic Temple, San Francisco. Old Frames reset with suitable Glasses or Brazilian Pebbles. 15vII-2m

REMOVAL!

R. WEGENER,

Accountant and Mining Secretary

Has removed to

No. 415 Montgomery Street—wes side,

Between Sacramento and California sts.,

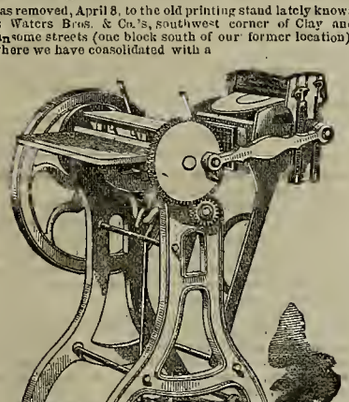
6vI0 SAN FRANCISCO.

STILL PROGRESSING!

THE OFFICE OF THE

Mining and Scientific Press

was removed, April 8, to the old printing stand lately known as Waters Bros. & Co.'s, southwest corner of Clay and Sansome streets (one block south of our former location), where we have consolidated with a



JOB PRINTING OFFICE,

One of the oldest and best appointed establishments in the city for

CHEAP, RAPID AND FINE PRINTING.

We are well prepared to do good work, and as cheap as any prompt and reliable firm in San Francisco, and will guarantee entire satisfaction to every reasonable individual who may be kind enough to bestow upon us his patronage.

LAW BRIEFS,
MINING CERTIFICATES,
PETROLEUM CERTIFICATES,
BLANK BOOKS,
MINING BLANKS,
BOOKS,
PAMPHLETS,
CARDS,
CIRCULARS,
MINING REPORTS.

Orders from the Interior will receive prompt attention. We shall take care to secure correctness in all work executed for parties out of town. Small packages will be forwarded by mail at our expense.

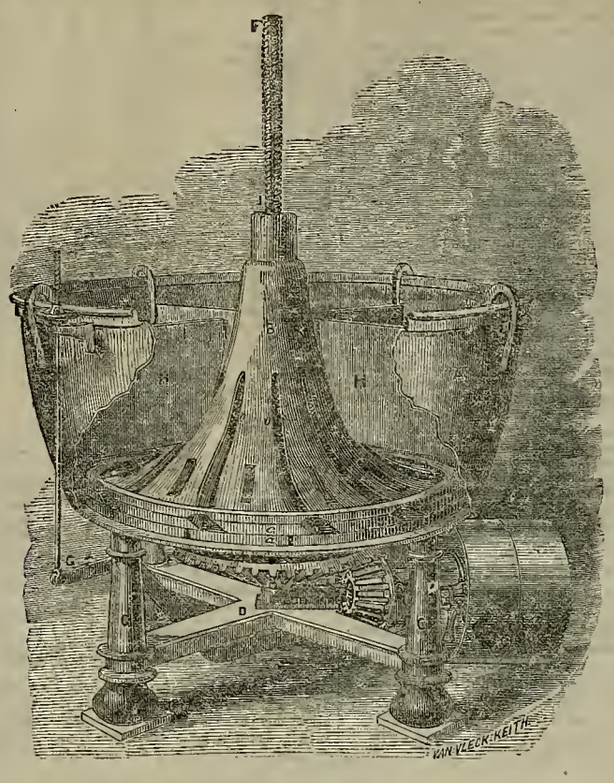
City customers, or persons visiting San Francisco, are invited to call and examine our specimens, when they will be politely informed of our prices by the Proprietors.

E. D. WATERS, Jr., C. W. M. SMITH, } Proprietors. { W. B. EWER, A. T. HAWEY,

To Mining Companies.

A GENTLEMAN OF MUCH EXPERIENCE AS A MINing Superintendent, in England, Spain, and on the Pacific coast, and one intimately acquainted with every department of mining, and with nearly every class of mineral, is desirous of securing a position as Superintendent of some mining operation in California or Nevada. The applicant was for four years Superintendent of the New Almaden Quicksilver Mine, in this State. The best of reference given on application at this office.

San Francisco, Oct. 12, 1865. 15vIItf



THE EXCELSIOR

GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and o, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

Union Iron Works and Golden State Iron Works,

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.

EUREKA

PATENT BLASTING POWDER,

Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets. Room No. 9, with San Francisco Chemical Works,

CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2vIIqy

WILLIAM PENROSE,

Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,

Is prepared to buy in any quantity

COPPER, SILVER, GOLD, LEAD

AND OTHER VALUABLE ORES;

Also Lead Bars Containing Gold and Silver,

☞ Full value paid on delivery in this City.—☜

Address Lock Box No. 992, P. O., San Francisco. 25vI0

Copper, Lead, Gold, Silver,

Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,

Agent for Townshend, Wood & Co., Swansea,

No. 406 California Street, San Francisco. 15vI0-3m

MARTIN & CO.,

Office, Stevenson House,

Corner California and Montgomery streets (up stairs).

WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES,

Assaying eight per cent. and upwards of Copper to the

We will make advances upon Ores of Copper. San Francisco, Post Office Box 1259. 22

VALUABLE

PATENT RIGHT

FOR SALE.

The patent right for the United States of a valuable invention can be secured at a bargain by applying at this office. The article is one of general application throughout civilization.

DEWEY & CO., Publishers.

Dissolution of Partnership.

NOTICE IS HEREBY GIVEN, THAT THE PARTNERship heretofore existing between the undersigned, under the name and style of Fisk & Barber, and doing business as Grocers, is this day dissolved by mutual consent. The business will hereafter be conducted by Fisk & Brown, at the old place, 814 Howard street. The business of the old firm will be settled by Fisk & Brown.

J. M. FISK.
CHAS. J. BARBER.

San Francisco, Sept. 30, 1865. 15vII-4t

THE STYLE

—FOR—

Fall and Winter, 1865,

Will be Introduced Aug. 26, at

MEUSSDORFFER'S

HAT MANUFACTORIES,

Nos. 635 & 637 Commercial st., San Francisco,

No. 125 J st., bet. Fourth & Fifth, Sacramento.

Corner D and Second Streets, Marysville.12vII

WE ARE NOW OFFERING

OUR IMMENSE STOCK

—OF—

Fine Custom Made Clothing

—AND—

Gents' Furnishing Goods

AT PRICES THAT DEFY COMPETITION.

Our Stock of Clothing Consists of

ALL THE LATEST STYLES

BOTH OF MATERIAL AND FINISH.

A Large Assortment of

Trunks, Valises, Carpet Bags, Blankets, Etc.,

AT EXTREMELY LOW PRICES.

J. R. MEAD & CO.,

8vI0 Cor. of Washington and Sansome streets.

SAN FRANCISCO

CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manilla Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at **TUBBS & CO.'S,**

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14vI0

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 6, 1865. 11vI0-tf

CHARLES BERNARD,

MANUFACTURER AND DEALER IN

Family Chartres Coffee,

AND SPICES OF ALL KINDS.

No. 707 Sansome street, cor. Gold, bet. Jackson & Pacific.

First Premium Awarded

BY THE MECHANICS' INSTITUTE,

FOR BEST COFFEE AND SPICES.

The proprietor having introduced steam power in his Manufactory, has now increased facilities to supply the trade and the public in general. All articles from his establishment are guaranteed to be pure and unadulterated. The public are respectfully invited to call and convince themselves. Country orders promptly attended to. 15vII-3m

OIL WELL BORING.

J. SEVENOAKS,

Contractor

For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1229 San Francisco. 2vII

LEHIGH COAL.

200 Tons Large Lump Lehigh Coal

Now on Hand.

I am also in constant receipt of

LEHIGH COAL,

And will be able to supply it always

At the Lowest Market Price.

JAMES R. DOYLE,

20vI0-3m Pacific Coal Yard, 413 and 415 Pacific street.

BEAUTIFUL SENTIMENT.—The beautiful extract below is from the pen of Hon. George S. Hilliard:

I confess that increasing years bring with them an increasing respect for men who do not succeed in life as those words are commonly used. Heaven is said to be a place for those who have not succeeded upon earth; and it is surely true celestial graces do not best thrive and bloom in the hot blaze of worldly prosperity. Ill success sometimes arises from a superabundance of qualities in themselves good—from a conscience too sensitive, a taste too fastidious, a self-forgetfulness too romantic, a modesty too retiring. I will not go so far as to say, with a living poet, that "the world knows nothing of its greatest men," but there are forms of greatness, or at least excellence, which "die and make no sign;" there are martyrs that miss the palm but not the stake; heroes without the laurels, and conquerors without the triumph.

A GREAT CURIOSITY.—A grand landscape in mosaic has been made by a clerk in the French War Office. It is composed entirely of insects—of beetles alone there are more than 45,000, of nearly 4,000 different species, and took four years in making. The painful piece of work forms one of the chief attractions of the exhibition of insects at the Palais del'Industrie.

Machinery.

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Crocodile Quartz Crusher; his Pulverizer; and his Improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast amalgamate, assort, cupellate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. **B. FAUCHERY, Engineer,**

24v9

SAVE YOUR BOILERS AND FUEL.

ONE EIGHTH OF AN INCH OF DEPOSITON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street above First (opposite the Oriental Hotel), San Francisco

23v10

Rowe's Patent Æolian Refrigerator.

THIS NEW AND IMPORTANT INVENTION IS NOW offered to the public, with the fullest conviction that it will be found invaluable to the dairyman, and of most essential service in every household. By its use the amount of cream from milk may be increased nearly one-third in quantity, while for general refrigerating and ventilating purposes, it has no equal.

W. S. ROWE, Proprietor, 14v11 San Francisco.

Worth's Telegraph Reel.

MESSRS. DEWEY & Co.—Dear Sirs: I see a notice in your paper in regard to my Paper Reel, signed Henry McGann. All I have to say is, if I had invented such a Reel as his, in 1862 or 1863, and had not improved it more than he has, I would keep my name to myself, and not let the public know who I was. His modest puts me in mind of Shakspeare's play of "Much Ado About Nothing." My Reel is entirely different from his, and is considered, by operators who are judges of such things, to be the best; and as for the cord, I could rig one to my Reel that would run a week, but it is not necessary.

For the best Paper Reels, address

L. W. WORTH, Sonoma, 15v11tf Or, WM. LUNDBERG, San Francisco.

HUNTER'S PREMIUM CONCENTRATOR, AMALGAMATOR AND SEPARATOR,

Awarded a Silver Medal at the late Mechanics' Fair.

HUNTER'S CONCENTRATOR CAN BE SEEN IN OPERation daily at the Novelty Iron Works, Fremont street. Parties wishing to purchase Concentrators will find it to their advantage to examine the above machine before purchasing elsewhere, for the following reasons:

1st. It will work the sands from a 5-stamp battery, and save from 10 to 20 per cent. more sulphurets than any machine built on the Pacific coast.

2d. The sulphurets are washed clean, containing less than ten per cent. of sand.

3d. The waste free gold and amalgam is amalgamated on the copper plates; no trace of ground mercury and scarcely a trace of metal passes off with the sand.

4th. Its simplicity is a sufficient recommendation for its general use as a Concentrator. The variation of speed in a Quartz Mill does not effect the working of the Machine. The same was demonstrated at the late Mechanics' Fair, when with the greatest IRREGULARITY OF SPEED the best of results were given.

5th. There is no clogging or stopping to clean out the sulphurets and sand; consequently no waste from any inattention on the part of the attendant.

6th. In exhibiting the working of the machine (it is not run empty), all classes of ores and tailings, from 50 pounds and upwards, are concentrated that parties may see fit to test the machine with.

Give it a trial, and satisfaction is guaranteed. All orders and any information required, address,

ANDREW HUNTER,

Novelty Iron Works, Fremont st., San Francisco,

15v11-3m Or to E. T. STEEN, Agent.

Hepburn & Peterson's AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant st. bet. 3d and 4th. [Illustrated in the Mining and Scientific Press, April 9th, 864.]

HEPBURN & PETERSON.

nov8-3m*

BLAKE'S QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA, WASHOE, ENGLAND, FRANCE,

— AND —

THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned.

Address,

BLAKE & TYLER,

Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.

4v10

ATTENTION, MINERS! LINSCOTT'S PATENT CHAMBER DRILL.

Great Improving in Blasting.

W. B. LAKE

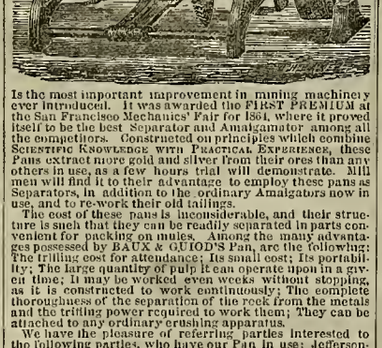
Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.

D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ¼ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

BAUX & GUIOD'S Separator & Amalgamator



Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to rework their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jeffersonian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crail's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Heugh & Thom's Foundry, Nevada City.

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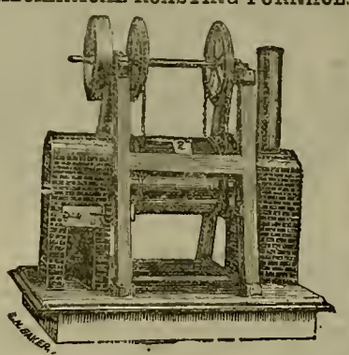

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For Sawing Wood.

ALSO, THE

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Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

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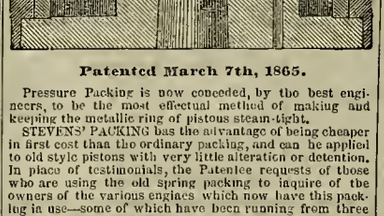

Patented March 7th, 1865.

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

STEVENS' PACKING has the advantage of being cheaper in first cost than the ordinary packing, and can be applied to old style pistons with very little alteration or detention. In place of testimonials, the Patentee requests of those who are using the old spring packing to inquire of the owners of the various engines which now have this packing in use—some of which have been running from three to twelve months without being opened, or showing any descriptive leak—and act upon their recommendation.

Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Alameda Railroad, or at the VULCAN IRON WORKS, where they can be seen, at any time, in course of construction.

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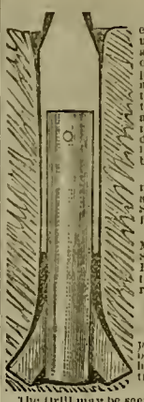

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AT THE STATE FAIR held in Sacramento, September, 1865, a Committee, after examining both the Linscott's and Stow's Chamber Drills, reported as follows:

We, the undersigned, Committee on Mining Tools, do award to Henry M. Stow, of San Francisco, the FIRST PREMIUM for the best Chamber Drill for blasting rock, for the following reasons:

1st. For simplicity of construction;
2d. For durability of drill;
3d. For strength of drill.

The above Drills will be sent to any part of the State for **$30**, with one set of Cutters or Chisels that will chamber from 75 to 150 holes. Extra Chisels furnished at $2 50 per set.

The Drill may be seen at Mr. BUFFINGTON'S Office, No. 7 Government Block, corner Sansome and Washington streets, and at No. 511 Market street.

Drills will be delivered in any part of this State free of expense to the purchaser. Any information desired, or orders for Drills, address

STOW & COLLINS,
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Oil Wells! Oil Wells!!

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All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 70 to 300 pounds, will yield from 10 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

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These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setters made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setlers for themselves, at the **PACIFIC FOUNDRY,**

1v1 San Francisco.

SALMON'S PROPELLOR AMALGAMATOR AND Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

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12v11-1m E. H. WILSON, Secretary

SUDDEN INFLUX OF WATER.—While at work in the Pike tunnel, on Union Hill, on Thursday, says the Grass Valley *Union*, the workmen, two in number, heard a distant rumbling noise, and supposing that the tunnel, which was heavily timbered, was about to cave upon them, they immediately sought safety in the open air, and skedaddled out of the tuunel. They had scarcely got out, when down came a stream of water, sufficient to have drowned a hundred men. Their presence of mind doubtless saved them from serious and perhaps fatal injury.

GOLD IN ANCIENT AND MODERN TIMES.—About the commencement of the Christian era, the annual product of gold and silver was estimated at $5,000,000; in 1492 it was only $250,000; in 1860 it had increased $285,000,000. At the commencement of the Christian era, all the gold and silver in existence was estimated at $1,326,000,000, and in 1863, it was estimated at $10,562,000,000. The whole amount of gold and silver obtained from the earth from the earliest periods to the present time, is estimated at $21,272,000,000.

A LARGE meeting of mechanics was held at Norwich, Conn., September 23d, for the purpose of taking steps to reduce the hours of labor from ten to eight hours a day. It was agreed to make the subject a test question with candidates for public office, and by that means get the desired change by legislative action.

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THE QUARTZ OPERATOR'S HAND BOOK is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

The work also contains an original and highly interesting discussion of the tractory and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Belshaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, concisencss, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on pa 415 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865.

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WHITE'S PATENT FOR CALCINING ORES.

One of the most difficult processes connected with mining, is that of desulphurizing or disintegrating the pyritnous ores. This has usually been accomplished in what are known as reverberatory furnaces, where the pulverized ores are placed upon a large flat hearth or floor, over which a flame is caused to pass, by which the ores are raised to the required degree of heat. The great labor, however, of stirring the ores, which must be done at very frequent intervals, in order to bring new surfaces to the oxydizing flame, has been found quite too expensive and slow an operation, especially for California. Hence various new devices have been brought out, the chief and most promising of which appears to be the principle of the rotary cylinder furnace—several different patents for which have been taken out during the last three or four years.

Rotary hearths, with automatic stirrers, were tried many years ago in England, and, if we mistake not, a rude description of a rotary furnace was also tried there; but all attempts at innovation on the old reverberatory hearth were finally abandoned. It was not until the high price of labor in California and Nevada demonstrated the absolute necessity of the introduction of some cheaper process of desulphurizing, that the inventive genius of American mechanics was set actively to work in this direction. The result in this instance, as in all other similar cases where an important and definite end was to be accomplished, has been a success; and at this time there are very few practical miners who are not satisfied that the reverberatory hearth must soon be entirely disused for roasting ores. The rotary furnace may not yet have reached perfection; but we have already contrivances upon that principle which are certainly practicable, and which will reduce the expense of roasting ores to a very small cost.

We have already, in previous numbers, described several devices for automatic roasting, and we now present our readers with the annexed representation of one invented by Mr. White, of New York, and which has been put into successful operation there upon ores from Colorado and California. The apparatus consists of a furnace and an inclined rotating cylinder, the outside of which is supported by boiler iron, the inside being built up of fire brick, so as to leave one central or fire flue, surrounded by six ore flues, as shown by cross section in fig. 5. In these latter the ore or other substance to be calcined is subjected to the action of heat from a furnace. The principal points in which it differs from other apparatus consisting of such a furnace and cylinder are, 1st, in having separate flues or passages for the gases of combustion, and for the ore to be calcined, so that the ore is not exposed to contact with the gases; 2d, in having the furnace located at the opposite end of the cylinder to that at which the ore enters, so that the ore may be subjected to a gradually increasing heat as the calcining progresses; 3d, in having the calcining-flues so combined with the furnace that the gases eliminated from the ore, in the calcining process, may enter into combustion in the furnace, and thereby save fuel. There are also some minor points of difference.

Fig. 4 gives a sectional view of the interior of the cylinder, furnace and smoke stack, showing the arrangement of the feed, receiving tank, etc.

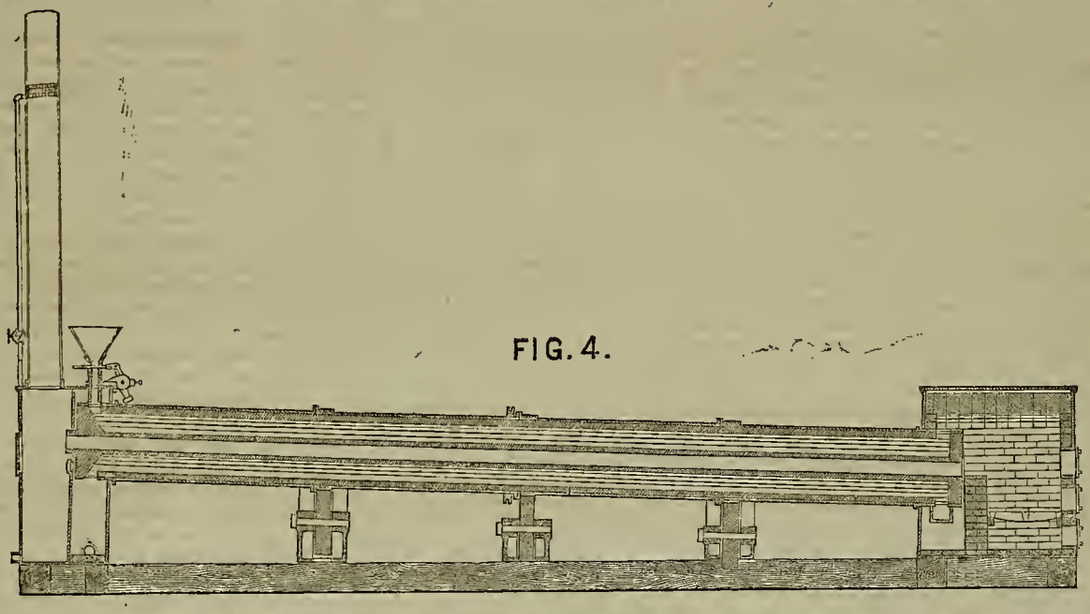

FIG. 4.

Fig. 5 gives a cross section of the cylinder, showing an end view of the central or fire flue, and the six surrounding ore chambers or flues, exhibiting, by the mode of their construction how, by their revolution the ore is made to fall across the diameter of each separate flue, thus coming in contact with the oxydizing influence of the heated air. The position of the anti-friction wheels or rollers upon which the cylinder rests, is also shown in this figure.

The operation of the furnace is as follows: The ores are fed into the hopper, as shown in fig. 4, and of the fineness of coarse Indian meal. The cylinder revolves about twenty times per minute; and six times during each revolution cams on the cylinder open the hopper, and let about a pint into it; the ore, falling through the flames into the groove at the bottom, is carried up by the rotation of the cylinder, and when at the top is again dropped through the flames; this process goes on incessantly, and the ore, by means of the inclination of the cylinder, is slowly carried to the discharging end by its own gravitation, where it falls into a receiving-chamber, or a tank of water, if preferred.

The fire from the furnace is driven into and through the central or fire cylinder by the ordinary draft. When the machine is to be started, the fire is built and continued without any charge of ore, until the entire interior brick-work of the furnace has arrived at a proper degree of heat for roasting. The cylinder is then set to revolving by means of chain pulleys, about one-half of a horse power being required for that purpose, for a cylinder 24 feet long by 30 inches diameter, and which is said to be capable of calcining 24 tons each twenty-four hours. As soon as the cylinder is in position, the feed is turned on, as already described, and the process of desulphurizing immediately commences. The fumes from the ore flues pass out into the furnace, from whence they are taken by the draft into the fire flue, where those that are consumable are summarily disposed of as aids to combustion.

In fig. 4 will be seen a triple coil of pipe inside and near the top of the chimney; this is perforated with numerous small holes, through which jets of cold water are ejected in every direction. When the heated air, in ascending the chimney, comes in contact with this water, a thick cold vapor or mist is formed, which precipitates into a tank below any portion of the precious metals which may be held either in mechanical separation, or in a state of vaporization. As the machine is constantly revolving about twenty times per minute, every atom of ore is in constant motion; and, it is calculated, is sifted or showered through the fire or flames 400 times during its passage through the cylinder.

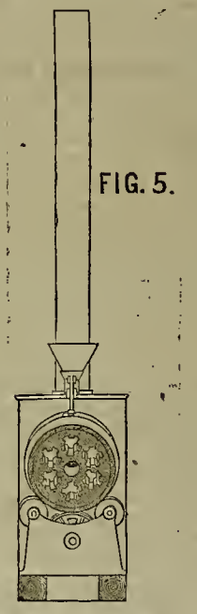

FIG. 5.

The calcined ore is shoveled out from the further end of the receiving-tank; and, according to the statements of the inventor, so thoroughly is it disintegrated that it can rapidly be mulled into an impalpable powder by the simplest means; quicksilver then added will immediately take up all the gold and silver.

This machine, the inventor assures us, has already had a thoroughly practical trial in New York. He is now here to prove its usefulness to the miners of California, and is desirous of connecting himself with some capitalist, who will advance the necessary amount of funds for doing so. It is undoubtedly well worthy the attention of the mining public.

Rich Specimens from Idaho.—We were shown some very rich and rare specimens of gold and silver bearing rock, a few days since, by Dr. J. C. Hawthorne, of Idaho. The Doctor left on the steamer yesterday, for the East, whither he goes to interest capitalists in the development of some of the rich mines in his section of the country. Judging from the indications set forth in an article on page 294, we presume the Doctor will not have to labor very hard to satisfy capitalists at the East that we have as rich mines in Oregon and Idaho as can be found in any part of the world.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

Hints about Working Copper Ores.

Editors Mining and Scientific Press:—I see your correspondents are agitating the subject of copper reducing, by smelting, and concentrating by water. It is a matter of much importance to our State, and a little light may be thrown upon it, by each contributing his mite. Mr. Mosheimer advocates concentration by water. In some cases it may be the best way of treating ores; but in most I believe it will be useless. Before we go farther, we must inquire what kind of ores can be concentrated, and what cannot:

1st. Ores that contain pyrites of a high grade (that is, but little sulphur and iron), and which are so mixed with gangue rock that they assay low, may be bettered by concentration.

2d. Ores containing purple and grey sulphurets, intermixed with pyrites, or such as are like the Lake Superior ores, containing native copper.

The gangue also has great influence upon concentration; slate, or sandstones are easily separated; lime, or magnesian stones, are more difficult. Those which cannot be profitably concentrated, are pyrites containing much iron and sulphur.

The ores of this vicinity are a good example of this class. The Campo Seco mine has at least 15,000 tons of ore in sight, assaying from nine to twelve per cent. There is scarcely any gangue; but wholly iron, sulphur, and copper.

If Mr. Mosheimer would look into the matter, he would find many of the best mines in the State of this character; their No. 1 ores assaying eighteen to twenty per cent. If he would take a piece of the best Keystone ore, and assay it, he would find it only twenty-five per cent. How he could take the low grades from this mine and concentrate them to twenty-five per cent., is a mystery to me.

The gentleman tells us that the English and German metallurgists find concentration cheaper than smelting; but he should also have told us that the ores they concentrate are very low—from one to five per cent.; and if the smelting works are not too distant, they consider it cheaper to smelt ores of seven per cent. than to concentrate farther.

I have seen ores concentrated in Canada. The cost there was about two dollars per ton. The ore, as it came from the mine, would assay from two to three per cent. The concentrated ore was usually of three grades, viz: 20 per cent., 14 and 7; with a loss of one-fifth of the per cent by the operation.

The advantages in their favor were an abundance of clear water and cheap labor; the best hands getting from seventy-five cents to one dollar per day, and boys fifty cents. The ore was a high grade sulphuret, containing but little iron and sulphur, and mixed with purple and grey ore.

We in California have none of these items in our favor; at least not in Calaveras, or the adjoining county of Amador. Water, such as is necessary for concentration is scarce and high; labor high, and the ores not the right class.

The Campo Seco mine has tried *kernel roasting*, with only partial success. The ores by this process are treated in the following manner: They are first piled in the same way as for roasting, preparatory to smelting, only they are not covered so closely with fine ore. They should burn three months. The sulphur distills from the lumps, and the copper concentrates to the center, leaving the iron oxidized upon the surface. This oxide is easily knocked off, leaving a kernel of sulphide of copper, of a much higher per cent.; nine and ten per cent. ore giving seventeen per cent. kernel. The main objections to this process is the cost of assorting the kernels, and the care it takes to perform the operation properly.

The only practical way of treating our ores that I know of, is smelting once, to make matte of forty or forty-five per cent., and then shipping. The process of making copper is too complicated for this country at present. It requires too much capital, fuel, and labor, and too great a variety of ores for any one locality in the State. When we have cheap transportation, and suitable coal, the business may be carried on successfully at some point near San Francisco.

There are, no doubt, great obstacles in the way of even smelting once for matte. But we must recollect that ten per cent. ores are worthless to ship; although in many cases they are so intermixed with good ore that they must be taken out in order to get any shipping ore. Of course, the mine owners will dispose of such ores at a low price. Ore of this description is worth in the Atlantic States $3.50, for unit of copper; here it can be bought for one dollar. Does this not leave a large margin for the smelter?

I will not attempt to give any estimate of the cost of smelting. It has been done by a much more able person (Dr. DeHierry) in your columns.

I think when you compare the value of forty-five per cent. matte, in the Atlantic States or Europe, with twenty and fourteen per cent. concentrated ore, and recollect that there is a loss of one-fifth by the most skillful manipulation, and one-third more in low per cent. ore not worth shipping, you will see a large balance in favor of smelting.

W. B. West.

Campo Seco, Calaveras.

[Written for the Mining and Scientific Press.]

Mining in Grass Valley.

Editors Mining and Scientific Press:—There is always something new turning up in this locality that interests the miner; new strikes are being made almost every day which astouish the oldest inhabitants of this section. Mother Earth is yielding up her treasures to the honest miner with liberal hands, as she always will do when sought after in a legitimate manner. I would like to keep you posted with regard to mining interests in this locality by a letter every week; but my labors are such as to require nearly twelve hours of the day to attend to our work, and most of that time under ground, enveloped in a cloud of powder smoke; hence, I do not feel like scribbling much. I see you clip an item once in a while from the *National* and *Union* about our mines. It seems strange to me that the editors of those journals, who profess to be so zealously anxious to build up the interests of this locality, do not come out and visit our mines, with the view of giving more full and faithful reports of the same. We seldom hear of their being down a mine; hence, it is supposed that they pick up such items as may chance to find their way to the streets, banking-houses, or express offices, where they visit, taking it for granted that it *must* be true that John Doe or Richard Roe has struck it rich. Come out, gentlemen, "*don the miner's duds*," and every superintendent in the vicinity will take pleasure in putting you through the mine, and you will *see* and *hear understandingly* of how our mines are being worked.

Tom Findly & Co. have opened their Union Hill mine with very flattering prospects; their ledge looks well. Of course nothing positive as to a permanent paying mine has been arrived at, as they have not had time to open the mine thoroughly. We may speak more positively of the mine in about six months from now. The Spring Hill mine is in course of being thoroughly opened; the incline is down 150 feet on the course of the ledge; the ledge varies from two to six feet thick; nothing definite as to the quality of the rock, they not having crushed any as yet; but judging from appearances, it ought to pay. We are satisfied that if Capt. Day can find rock that pays $12 per ton, he will make it a handsome paying mine. The Captain deserves great credit for the work he has put up on the mine; there is none equal to it in this vicinity. The machinery is compact, useful, and durable. We understand that about 200 tons of ore has been taken out, which is to be crushed at the Gold Hill and Sebastopol mills. The result of the crushing will be no positive proof of the mine however; but when the Captain has sunk three or four hundred feet, and extended his drifts about the same distance, he may count upon something positive. We wish him success, and every other man of his stamp.

We have been looking for something to turn up in the Coe mine beside defective machinery and bad management, but neither see nor hear of any improvement as yet. We have been told by the miners working under ground that the vein is large, and shows considerable fine gold, and we *never* doubt an *honest miner!*

The Eureka mine continues to yield handsomely. This mine, as you have already told the public, has been sold. The Watt Bros. will, undoubtedly, make a better paying mine of it than the "Emperor" did, by reason of their superior judgment as mine managers; but the Emperor has realized quite a fortune out of it.

The Seadden mine is yielding handsomely, from the rock taken out of the main shaft in course of sinking. We regret to see the work of opening the mine in depth delayed for the want of machinery, as we cannot class the present works there as machinery at all; it is a useless expenditure of money. We have never seen so gross an oversight displayed by men who have practical experience; but we suppose a dollar looks as large to them as a coach-wheel.

In my letters, heretofore, I have omitted speaking of the Ophir mine; not that it was less deserving, but because the prospects of the mine were such, that, notwithstanding they warranted a first-class mine, it is only recently that they have been sufficiently developed to admit of my speaking with any degree of certainty. In spite of the predictions of all the wise men of this district to the contrary, those prospects have now revealed a splendid mine, and it is amusing to hear those who condemned the Ophir formerly, say that they always said and advised the old Empire company to prosecute their work on the south ground, which is to-day the most productive. We doubt very much if another man could be found in this county who would have persevered half as long as Captain Lee, with the disadvantages he had to contend with in developing the mine. The Captain was a perfect stranger to the place, and the material he had to rely upon for information in opening the old mine was none of the best; yet, he never despaired as long as there was a "shot in the locker." Even when the Linscott patent drill could make no impression on the rock, the Captain, seasoned with a good temper, broke through the crust, and is now rewarded with an A 1 mine. Such is almost invariably the reward of men who are determined to give any enterprise a fair trial, with their energies directed in a legitimate manner. We believe about $20,000 had been spent before a ton of ore had been extracted that paid anything over expenses. This mine is owned by Captain Lee and Mr. Houston of your city. Captain Lee is the managing agent. The mine is worked through an incline shaft 550 feet long, at an average angle of 35°; the bottom level is run 450 feet, going through a fine body of ore ground for 350 feet long, averaging three feet thick. The hight of bucks at present is 350 feet. As the level is extended the bucks become higher, until solid ore ground to surface is reached. The average yield of ore per day is forty-five tons, working sixteen pairs of men; average yield per ton $35. The company have only six head of stamps, which crush about sixty-five tons per week. There are about 1,500 tons of ore on the surface. With the present prospects the mine is destined to become one of the leading mines of this county. We have never seen a finer lode of ore in any mine here. The company is sinking a new incline shaft 11½ feet, by 5½ feet high, with three compartments—two for hoisting and one for the pump and foot-way. On this shaft is being erected one of Colliss's engines, 12 inch cylinder, 24-inch stock; boiler 15 feet long, by 45 inches in diameter, with 4-feet steam drum. This engine will hoist and pump. There are to be two hoisting reels six feet in diameter, working separately and independently. The work on this engine will be completed some time next month, every thing being done in the strongest and most approved manner. The new shaft will, no doubt, be connected with the bottom, south level, in about four months, when the mine will just then be considered in a fair way of development. With proper management, 100 tons will then be little enough to calculate on as the regular day's hoisting. In view of this, and the accumulating ores on surface, there is a new mill, of thirty stamps, being erected. The engine to run this mill is 150-horse power, 18-inch cylinder, 42-inch stroke, two tubular boilers 16 feet long, 54 inches in diameter, with large steam drums, fly-wheel to weigh seven tons. The stamps will be 750 pounds each, ten pans, and three large amalgamators, of the most approved make, will be put up. Messrs. Baux & Guiod have erected one of their pans in the old mill, at their own expense, in order to test its capabilities. It has run about a week, and seems to be just the pan for the work. No doubt the company will give all the different styles of pans a test, so as to arrive at the best. The whole cost of the work now being erected on the Ophir mill will, undoubtedly, reach $75,000. The machinery for the mill is being got up at the Vulcan Foundry in your city. We hope to give you a fair description of the mill as soon as erected, which will be in about five months.

The Redan mining company, incorporated in your city for the working of some mining ground here, have not been as successful as we could wish them—we hear of their suspending work for awhile. The company should not be discouraged; they should understand that the ground they purchased was not warranted paying ground, from the fact that they only paid about $4,000 for it. It was only a prospect, and nothing more, and, still remains so, as they have only commenced to develop the lode. I am satisfied that Mr. Eudy, their mine manager, who has no superior in this county as a practical miner, will find a mine there, if it is to be found in this ground, and at the least possible expense.

I am sorry to say that the Osborne Hill mine is idle, but whether for want of brains or capital to work it, I know not; but there is no more deserving mine in this township. It has, unfortunately, been in the hands of inexperienced mine managers. I have heard some of our miners pronounce it a pity that this mine had failed to pay; because its success would have had a great influence upon capitalists who intended to invest in our mines. We hope all such capitalists who know no more of the business of mining than those who last undertook to work the Osborne Hill mine, will keep out of Grass Valley, for they would certainly fail in making the best mine in our township pay.

I understand the Bordette mine, owned by parties in New York, is looking favorable. It is to be hoped that the mine will prove good, for the reputation of our town is, in a measure, at stake on its success. Mr. Fisher is the superintendent who was sent here from New York. I am not acquainted with the gentleman, and consequently do not know whether he is a miner or not. He seems to be a stirring little fellow, however, and I hope he will strike a three-feet lode, which he says he can make make pay at $20 per ton. If he can't make a smaller lode pay at less rates, he will not be a very successful manager in this township.

Grass Valley.

Grass Valley, Oct. 11, 1865.

[Written for the Mining and Scientific Press.]

Mill Valley District, Calaveras County.

Messrs. Editors:—A few days ago, in company with a gentleman from your city, I visited the diggings and mines of this thrifty little mining camp, walking up steep hills, down steeper gulches, and pulling ourselves through chaparral, which was as thick as an Indian jungle, until my friend from San Francisco thought he felt an earthquake, which was nothing more than a cave in the inner man. We finally returned home, satisfied that we had seen enough of the slide for one day, but did not discover the whisky.

The placer diggings are now without water, so there is little doing in them; the chief business, therefore, is quartz mining, which bids fair to become a permanent thing and a paying institution, judging from the prospect already obtained.

The first quartz claim we examined is known as the Whisky Slide lead, which is divided into fifteen shares, of 200 feet each, so that the company own 3,000 feet on the lead; they also own 2,800 feet in the School House lead, which is close by. They have on the Whisky Slide, 600 feet from the shaft, a small 5-stamp steam prospecting mill, 8-horse power, which has been running since the 15th of September last. They are now about erecting a 15-stamp steam mill on the site of the present one.

I descended the shaft, an incline now seventy-three feet deep, and five by seven feet in the clear. I found the vein about five feet wide, much broken and disturbed throughout the entire depth of the shaft. It is, however, well defined, having distinct walls, and pitching east at an angle of thirty degrees.

The rock already crushed has paid ten dollars per ton; they had just cleaned up a run of 48 tons as we got there, and therefore we did not see the mill at work. The parties putting up the mill get half the lead for so doing, and from present appearances they have made a good trade.

Next adjoining is the French claim, ten shares, or 2,000 feet. This claim is the oldest in the district, having been opened in 1857 by Partroon, Herman & Company, merchants of Esperanza, who, having found some good rock near the surface, were encouraged to go on prospecting. However, as they had no knowledge themselves of mining, they chose parties to do the work who they knew to be good laborers, thinking, of course, that was all sufficient, but after several months they found themselves minus two thousand dollars, and their lead apparently worthless—the inevitable consequence of unskilled labor in mining. It has remained idle since then, until within a few weeks ago, when Mr. E. Wallace, an old

miner of the district, re-discovered that which the Frenchmen lost—the true vein—and has since sunk a shaft on the incline thirty feet, and is taking rock equally as good as that taken from the Whisky Slide, and which it closely resembles. I think I may safely say that the parties now in possession of this lead will test it thoroughly before it is again abandoned. I did not go down this shaft, but I saw some of the rock, which showed free gold in considerable quantity, and judging from this and external appearances, I think they have a good lead, and that the Frenchmen, who are again interested, will get back their money so foolishly expended in 1857.

There are several other claims now being prospected here, but those mentioned are the only ones sufficiently opened to form an opinion as to their probable value, and I will therefore await further developments before I speak of them.

I hear of two valuable mechanical inventions having been made by a mechanic of this district, and am promised a description of them for the PRESS. R. W. D.

Whisky Slide, Calaveras Co., Oct. 23.

INTERESTING GEOGRAPHICAL FACT, IF TRUE. The London *Shipping Gazette* says, the discovery has been made in Paris that in the maps of the last century two small islands were indicated between Ireland and Newfoundland—one called by the French Isle de Verde, at about latitude 27° north and longitude 29° west from Paris; the other called Isle Jacquet, latitude 47° north and longitude 42° west. In the maps of the present century these islands are not marked; but it is thought probable by the French that they still exist. If so, they could be utilized in the laying down of the electric cable.

There is no especial improbability in this statement. A hundred years ago the paths of ships upon the ocean were exceedingly devious. The currents and prevailing winds were then very little known. Recent discoveries and scientific research have introduced a class of information and facts to the navigator, by which he is enabled greatly to shorten the distances of his voyages—the curvature of the earth now enters largely into the calculation of the course, even between Europe and America. A century ago, if an observer had been placed at an elevation where he could have had one of the great oceans spread out before him, and within the reach of his vision, he would have seen the ships of commerce scattered over almost every portion of the same, with very little regard to any uniformity of direction, even in vessels moving from the same port and bound to a common haven. Now, were an observer so stationed, the ships moving on the the same voyages would appear to be traveling in almost uniform lines. "Great ocean highways" are now literal facts; and the shipping of the world is confined almost as closely to given highways, as the overland stages which cross the continent of America, or wend their way from Russia, as they do, across the continent of Asia to the head-waters of the Amoor river.

The islands alluded to by the *Shipping Gazette*, are located off from the usual track of shipping, and would now be seen only by a vessel out of her course, or on an especial exploring expedition. It is quite probable that the old geographers were right in placing them where they did; and that the fact of their being uninhabited, out of the usual track, and of no commercial importance, induced later geographers to drop them from their maps and charts altogether. Should their existence be proven, they would certainly be of great importance in establishing telegraphic connection between Europe and America.

TENACITY OF LIFE IN SHARKS.—Some fishermen in the bay recently hooked a shark of enormous size, estimated at from 800 to 2,000 lbs. Finding it impossible to get him into the boat, they ripped him open with their knives, and took out his liver, which was a mass of fat, filling a Sandwich Island sugar keg, nearly the size of a barrel, and then cut him loose. After being let loose the mutilated shark swam around and splashed vigorously in the water for some minutes. The liver was subsequently exhibited in the fish market on Clay street.

ENLARGED.—The Oakland *News* comes to us greatly enlarged, and in a completely new dress. We are pleased to note this evidence of prosperity in our neighboring contemporary

Useful Information.

Chinese Mode of Taking Honey.

Mr. Fortune, the well-known English botanist, thus describes the mode adopted by the Chinese for taking honey from bee-hives. He says: "The Chinese hive is a very rude affair, and looks very different from what we are accustomed to use in England; yet, I suspect, were the bees consulted in this matter, they would prefer the Chinese to ours. It consists of a rough box, sometimes square and sometimes cylindrical, with a moveable top and bottom. When the bees are put into a hive of this description it is rarely placed on or near the ground, as with us, but is raised eight or ten feet, and generally fixed under a projecting roof of a house or outbuilding. No doubt the Chinese have remarked the partiality which the insects have for places of this kind, when they choose quarters for themselves, and have taken a lesson from this circumstance. My landlord, who had a number of hives, having determined one day to take some honey from two of them, a half-witted priest, who was famous for his powers in such matters, was sent for to perform the operation. This man, in addition to his priestly duties, had charge of the buffaloes which were kept on the farm attached to the temple. He came round in high glee, evidently considering his qualification of no ordinary kind for the operation he was about to perform. Curious to witness his method of proceeding with the business, I left some work with which I was busy, and followed him and the other priests and servants of the establishment to the place where the hives were fixed. The form of the hive in this instance, was cylindrical; each was about three feet in length, and rather wider at the bottom than the top. When we reached the spot where the hives were placed, our operator jumped upon a table there for the purpose, and gently lifted one of the hives and placed it on its side on the table. He then took the moveable top off, and the honeycomb, with which the hive was quite full, was exposed to our view. In the meantime an old priest, having brought a large basin, and everything being ready, our friend commenced to cut out the honeycomb with a knife apparently made for the purpose, and having the handle almost at right angles with the blade. Having taken out about one-third of the contents of the hive the top was put on again, and the hive elevated to its former position. The same operation was repeated with the second hive, and in a manner quite satisfactory. But, it may be asked, 'Where were the bees at this time?' and that is the most curious part of my story. They had not been killed by the fumes of brimstone, for it is contrary to the doctrine of the Buddhist creed to take animal life; nor had they been stupefied with fungus, which is sometimes done at home; but they were flying about over our heads in great numbers, and yet although we were not protected in the slightest degree, not one of us was stung; and this was the more remarkable as the bodies of the operator and servants were completely naked from the middle upwards. The charm was a simple one; it lay in a few dry stems and leaves of a species of Artemesia, (wormwood,) which grows wild on these hills, and which is largely used to drive that pest, mosquito, out of the dwellings of the people. This plant is cut early in the summer, sun-dried, then twisted into bands, and it is ready for use. At the commencement of the operation which I am describing, one of the bands was ignited, and kept burning slowly as the work went on. The poor bees did not seem to know what to make of it. They were perfectly good-tempered, and kept hovering about our heads, but apparently incapable of doing us the slightest injury. When the hives were properly fixed the charm was put out, and my host and his servants carried off the honey in triumph."

MAPPING THE MOON.—At a late meeting of the British Association for the advancement of science, a report was read from the Lunar Committee, charged with the duty of preparing a large and accurate map of the moon's surface. Mr. Birt, Secretary of the Committee, describing the plan of the work, said it was proposed to divide the moon into four quarters, and then sub-divide it into divisions of twenty-five degrees of latitude and longitude. The work has occupied the attention of the association for thirteen years, and every crater, mountain, and plain which has been the subject of examination, has been designated by a symbol; and numerous micrometrical measurements have been included which are now undergoing re-examination, reduction, and classification. The proposed map will be seventy-five inches in diameter.

COLORED POPULATION.—In the eight principal counties represented at their Convention, there is a population of 3,424. They have eleven churches, eight schools, and own property worth $1,500,000.

The Origin of Cotton.

The great staple, on which so much of commercial stability and physical comfort depends, has a remote origin, and we are dependent for it as for many other articles, upon the East. Professor Draper's new book furnishes this information:

"To the Saracens we are indebted for the cotton manufacture. Through their influence that art was extended from Japan to the Gulf of Guinea, from the Pyrenees to the equinoctial line. They spread the use of that material which at this day constitutes a chief source of the wealth of manufacturing Europe and agricultural America—mathematics, astronomy, chemistry, etc—they have left an indelible impression, of which such words as algebra, alcohol, and many others that might be mentioned, are the enduring reminiscences, so in this branch of industry they are like witnesses; not a few of its terms that have been incorporated in our speech are of Oriental origin. The word cotton itself is Arabic; muslin is so called from Mosul, a city on the banks of the Tigris, once the chief seat of its manufacture; calico, from Calicut, in India. The under-garment worn by ladies passes under a name which shows from whom they derive it, for chemise is an Arabic word.

The cotton manufacture was commenced in Spain by Abderahman III. A. D. 930, a period during which attention seems to have been particularly directed by the Moors to the improvement of agriculture and manufactures, while the rest of Europe was falling deeper and deeper into barbarism and night. The Khalif introduced into the peninsula the sugar-cane, rice and the mulberry tree, with many improvements in such arts as tanning and the manufacture of silk. Cotton was carried into Sicily by the Saracens on their occupancy of that island, and indeed from Spain the use of it spread more or less all over the north and east of Europe. One of the Mohammedan applications of this vegetable product was destined to be of the utmost value; it was the invention of cotton paper. The real merit of the invention of the art of printing lies, not as is commonly supposed in the contrivance of the press and types but in the making of paper. The process of multiplying impressions by seals and stamps, which is essentially a printing process, had been known from the remotest antiquity; but such operations could never be made available for the extensive dissemination of knowledge until something more abundant and cheaper than papyrus and parchment was discovered. This want was supplied by the Arabian cotton paper.

HOW TO ENTER UPON A SCIENTIFIC PURSUIT. In entering upon any scientific pursuit, one of the student's first endeavors ought to be to prepare the mind for the reception of truth, by dismissing, or at least lessening his hold on, all such crude and hastily adopted notions respecting the objects and relations he is about to examine as may tend to embarrass or mislead him; and to strengthen himself by something of an effort and a resolve for the unprejudiced admission of any conclusion which shall appear to be supported by careful observation and logical argument, even should it prove of a nature adverse to notions he may previously have formed for himself, or taken up, without examination, on the credit of others. Such an effort is, in fact, a commencement of that intellectual discipline which forms one of the most important ends of all science. It is the first movement of approach towards that state of mental purity which alone can fit us for a full and steady perception of moral beauty as well as physical adaptation. It is the "euphrasy and rue" with which we must "purge our sight" before we can receive and contemplate as they are the lineaments of truth and nature.—*Sir John Herschel.*

HEART AND BRAIN.—In some of the lowest types no trace of a nervous mechanism can be discovered. A little higher in the scale of organism it is very slight and simple. Still higher it becomes complex and important. It culminates in man. Corresponding with this scale of complexity in the sensitive life is the scale of complexity in the nutritive life. As the two rise in importance they rise in the scale of dependence. A frog or a triton will live long after its brain is removed. Frogs have been kept for several weeks without their brains, and tritons without their heads. Redi, the illustrious Italian naturalist, kept a turtle alive five months after the removal of its brain. A somewhat similar parallelism is seen on the removal of the heart. None of the higher animals can survive a serious injury to the heart; but that organ may be removed from a reptile, and the animal will crawl seemingly as lively as ever. A frog will live several hours without a heart, and will hop, swim and struggle as if uninjured. Stilling once removed all the viscera from a frog, which, however, continued for one hour to hop, defend itself, and in various ways manifest its vivacity.

HOW TO SAVE THE DROWNING.—If you have any distance to swim, the wisest plan is to undress, which can be done in a few seconds. You then have more freedom of limb, and can rush through the water with speed and alacrity. And if the drowning person should succeed in clutching you, your chances of freeing yourself, being naked, are immeasurable compared with what they would have been had you been hampered with your wet clothing. When you approach the drowning, watch diligently an opportunity, and seize him by the back of the arm, below the shoulder. You will in that position be enabled to keep him at arm's length before you, and exercise the most perfect control over his and your own movements. His face being from you, the temptation to grapple with you is removed, and you have more facility to make to the shore or most convenient place of landing. Never attempt to seize a drowning man by the hair of the head. There is great danger to be apprehended in so doing, for, as the arms are at liberty, you are liable to be caught in a death-grip in a moment.

The Geology of the Yosemite Valley.

Gov. Bross in one of his letters throws out the following suggestion as the probable origin of the famous Yosemite Valley and Falls:

Our readers who are at all acquainted with the principles of geology, will ask themselves how this valley, averaging about a mile wide, and whose granite walls are from three quarters to a mile and a quarter high, was formed. Here is a theory, based upon such facts as we were able to observe, which each reader is desired to take only for what it is worth. In the early history of our planet, after the Sierra Nevada mountains were formed, from some change in the central and fused portions of the earth, there was an upheaval, far down beneath the present valley, which, of course, would break the mountains asunder. It would require but a slight elevation twenty miles below to make a fissure a mile wide at the surface. The debris formed from rending the mountains apart at first fell down far into the fissure, and were subsequently covered up by the sand and gravel brought down by the tremendous currents and glaciers which swept through the valley. This is proved by the fact that at Tu-toch-a-luna (three-fourths of a mile high), and other perpendicular walls where the fracture corresponds with the cleavage of the granite, and where it is especially solid, there are no boulders at their base, and you can ride up directly to them and put your hand upon the crag, while to look up to the summit makes you dizzy and bewildered.

At other points, as in the rear of Mr. Hutchins' house, and at the Yosemite Falls the upper portions of the mountains have been thrown off after the lower sections of the valley were filled with sand and gravel, as before stated, and for a long distance from the base of the mountains tremendous boulders of granite lie piled upon each other in the wildest confusion. Their edges are sharp, and as there is no debris between them, it is certain that they were broken off and fell down long after the valley was formed. With a field glass, and even with the naked eye, large white seams of what we suppose to be feldspar can be seen in the granite walls, and we doubt not that photographs carefully taken of opposite bluffs will show a general if not an exact correspondence in the rise and general direction of these seams. Then again the opposite sections of the valley seem to be nearly of the same height, especially where the granite is solid and the walls unbroken by the elements or other causes. The entire valley will long be a favorite resort of geologists as well as those who admire the beautiful and the sublime handiwork of that Almighty Being who made and adorned this most wonderful valley.

A CAMEL ON THE TRACK.—The locomotive taking a train of cars from Sacramento to Colfax, on Friday of last week, while passing through a deep cut in the mountains, just beyond Newcastle, encountered and knocked from the track a camel. The camel was not seriously injured, but who it belonged to, or where he came from, was unknown to the residents of that neighborhood. The engineer thinks he shall hereafter keep a sharp look-out for an "elephant."

QUINEY HALL CLOTHING.—Messrs. Davis & Schafer, proprietors of the Quiney Hall Clothing Emporium, at No. 545 Washington street, are now exhibiting to their numerous customers a most magnificent assortment of ready-made clothing and furnishing goods, embracing every variety of good quality and desirable style.

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, November 11th, 1865.

Within the past two or three weeks there has been a steady increase in the demaad for money, with a larger amount of good business paper and satisfactory collaterals offering. The inquiry seems to have been confined to no particular department of business; all interests having sbared in some degree. The ordinary rate of discount in bank is now 1¼ ₱ cent. per month, and a number of negotiations have been made this week at 1½ ₱ cent. Outside loans rule at 1½@2 ₱ cent., according to the character of the collateral offering.

The receipts of Treasure from Domestic sources, since our last reference, amounted to $1,080,000, nearly all of which came from the nortbern mines of this State, and from Nevada.

Bullion has been in active request throughout the week, and sales of gold bars were made for the steamer of yesterday at 850@860, with some transactions at even higher figures. Silver is unchanged, and is quotable at par to ¼ ₱ cent. premium.

Legal Tenders have been rather more active, but at a slight decline, and considerable sales were made within a range of 69½@68½c, closing at 68¾c bid. Our latest telegraphic advices from the East quote gold at 147.

There has been some improvemeat in nearly all shares, and the aggregate trausactions show a large increase over last week. A number of seller's-option coutracts have been filled, and it is thought that some important orders have been executed, with a view to a better market. Advices from different mines appear to be regarded with much more favor, aad if all stocks were not now in such apparent discredit with the public generally, and certain capitalists in this city would afford the usual facilities to dealers, an early and substaatial recovery to the market might be confidently looked for.

Gould & Curry has been in more favor, aad 20 feet were dealt in, advanciug from $1,025 to $1,090, then selliug at $1,100, and closing at $1,100 asked. In running west and south from the station in the new shaft, 200 feet below the 425 feet level, a substantial body of quartz has been met with, a portion of whicb carries pay metal. This drift is to intercept the old interior shaft, in the southern part of the miue near the Savage line. At this point the existence of pay ore was long since partially demonstrated in siukiag from above, but more thorough explorations are now to be made. Different portions of tbe old works have shown a decided improvement recently, and it is now estimated that at least 25,000 tons of ore can yet be taken from the upper levels. The average yield of the ores reduced last month was about $48 per ton, and the aggregate receipts amounted to some $165,000.

Savage was very active, and 56 feet changed hands, advaacing from $760 to $800, buyer 30, receding to $725, rallying to $780, droppiug to $750, tbea selliug at $775@760, and closing yesterday at $765 bid. Active operations have been suspended in this mine for ten days past, owing to the re-timbering of the maiu shaft; meaawbile the company's mill has alone beeu employed in crushing ores. A coatract has been made to renew work in the aew E street shaft (aow 200 feet in depth), at $18 per foot, aad arrangements have also beea made to siak two new compartments in the Day shaft. This latter is to attain a depth of 600 feet, aad will develop the miue 100 feet below the present lower level. A decided improvemeat bas takea place recently in the lower and upper levels of this mine.

Alpha has been dull and inactive, and some 17 feet were sold withia a range of $850 and $790, closing at $790 bid, $800 asked. We can learn of no new feature in this claim.

Yellow Jacket was dealt in to the extent of 75 feet, receding from $750 to $660, rallying to $710, dropping to $665, seller 30, and selling yesterday at $670 bid. It is said that some promising developmeats have been made in the southwest drift from the lower level.

Crowa Point declined from $720 to $625, rallied to 650, then sold at $790, and closed at about $720. Tbe winzes from the 230 feet level are now down some 50 feet vertically in good ore. In all about 50 tons of orc per day are now hoisted to the surface. The watcr is subsiding in the 300-feet level, and preparations are being made to start the drift again. Belcher has been more active, and some 30 feet were sold at $450@$400, closing at $400 bid. Large bodies of water still somewhat interfere with a proper development of this mine.

Ophir has continued to be sustained with steadiness, and 90 feet were sold within a range of $385, cash@407½, buyer 30, closing at $392½. Advices from this claim are favorable, and it is said that more substantial indications have been met witb in the drift from the ninth gallery.

Cbollar-Potosi was very actively dealt in, and nearly 500 feet changed hands, dropping from $325 to $285, advancing to $340, buyer $30, receding to $315, rallying to $325, declining to $317½, and selling yesterday at $310@$308. During the week ending November 3d, 520 tons of ore were sent to custom mills, and 630 tons were sold at $8 per ton. The Bajazette ground continues to look well, and the drift north is said to be in fine ore, which is being breasted out. The drift south, for the purpose of intersecting the promising deposit of sulphuret ore found lately in the east cross-cut (485-feet level), has been temporarily interfered with, owing to an influx of watcr. The old Chollar workings, between the third and fourth levels, show some improvement. The new shaft is now down to the drift about to be opened.

Imperial steadily declined from $175 to 156½, rallied to $174, buyer 30, dropped to $168, and sold yesterday at $160@$157 ex-div. The Front Gold Hill company have instituted a suit against the Imperial and other Gold Hill claims, for the recovery of all ground lying outside of their square locations; but, the parties defending do not seem to attach much importance thereto. The Lindauer mill will probably not be employed at present, it not being in an efficient condition. No definite conclusion has been reached in regard to the new shaft. The productiveness of this mine, at no distant day, will depend materially upon the progress of that work, and in the opinion of many stockholders, it should not be further delayed.

Hale & Norcross fell from $200 to $150, rallied to $240, aad then sold at $205@$207½. Empire Mill rose from $175 to $182½, fell to $162, and closes at $163.

Overman has been sold at $50@$70, closing at $62½. Bullion fell from $60 to $45, rallied at $70, and closed at $57½.

Confidence was dealt in at $62½@$77½, closing at $76.

The aggregate sales of Stocks, since Saturday last inclusive, amounted to $832,086.

Fluctuations in Leading Mining Shares for the past Six Months.

Name of Company.	April 10th.	April 20th.	May 1st.	May 10th.	May 20th	June 1st.	June 10th.	June 20th.	July 1st.	July 10th.	July 20th.	July 30th.	August 10th.	August 20th.	Sept. 1st.	Sept. 10th.	Sept. 20th.	Oct. 1st.
Gould & Curry.....per ft.	2,015	1,375	1,800	1,480	1,660	1,525	1,625	1,615	1,750	1,750	1,730	1,500	1,500	1,475	1,135	1,300	1,240	1,250
Ophir.....	590	560	500	490	550	485	480	500	495	485	530	425	400	390	280	385	415	340
Savage.....	2,025	2,020	1,600	1,375	1,300	1,190	1,150	1,425	1,375	1,400	1,310	1,175	1,220	1,300	1,300	1,225	1,215	1,225
Potosi.....	915	870	790	425	337	202	312	467	332	350	395	480	465	460	440	420	410	472
Chollar.....	942	830	650	425	375	215	317	473	345	370	410	500	490	500	475	455	420	500
Hale & Norcross.....	625	600	450	400	455	440	400	650	600	555	570	525	520	510	480	520	550	750
Sheba.....	....	30	28	....	20	16	15	18	....	....	....	....	....	....	....	....	....	....
Dancy.....	15	....	20	....	22	15	15	15	14	....	14	....	50	70	43	40	40	85
Wide West.....	17	16	10	9	7	5	4	3	7	3	6	....	....	....	....	....	....	16
Burning Moscow.....	38	50	47	41	45	40	46	57	34	29	25	29	25	34	23	20	5	....
Pride of the West.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bullion.....	135	151	150	155	152	136	130	165	149	175	180	175	157	175	160	....	125	126
Real del Monte.....	14	....	....	....	....	12	10	....	....	....	....	....	....	....	....	....	....	....
El Dorado.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Overman.....	325	300	245	240	180	115	100	120	180	342	305	200	241	213	190	135	170	175
Sierra Nevada.....	26	22	16	17	14	13	12	14	15	10	14	25	20	18	19	22	21	17
Yellow Jacket.....	2,500	2,400	2,070	1,515	1,550	1,400	1,320	1,150	1,090	1,015	1,105	1,220	1,350	1,355	1,420	1,460	1,405	1,345
White & Murphy.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sides.....	....	....	....	....	....	....	....	....	....	75	60	....	....	....	....	....	....	....
Uncle Sam.....	320	285	250	245	200	115	100	155	185	345	307	190	240	215	193	185	....	....
Baltic.....	15	....	....	....	....	....	....	....	....	20	16	....	....	....	....	....	....	....
North American.....	34	....	30	....	25	30	28	25	28	35	42	35	30	29	24	16	....	....
Baltimore American.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Melones.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Antelope.....	23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Napoleon.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sacramento.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Utah.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lady Bryan.....	....	....	....	....	....	....	....	....	....	6	6	....	6	3	....	....	....	....
Imperial.....	213	205	235	232	235	139	175	217	238	245	218	227	230	255	252	25	221	232
Crown Point.....	1,360	1,170	1,000	1,000	885	725	780	750	765	800	910	905	990	1,250	1,120	1,115	1,150	1,130
Belcher.....	1,800	1,620	1,210	1,200	1,105	925	620	695	780	775	850	805	860	865	875	900	910	875
Alpha.....									1,450	1,400	1,470	....	1,425	1,500	1,925	1,950	2,100	2,200

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, November 4.

48 shs Ophir at 390 per foot.
60 shs Ophir at 390 per share, s 30.
72 shs Ophir at 410 per foot, b 30.
36 shs Ophir at 415 per share, b 30.
120 shs Ophir at 395 per foot, s 30.
24 shs Ophir at 412½ per foot, b 30.
4 shs Gould & Curry at 1050 per foot, b 30.
10 shs Savage at 776 per foot,
7 shs Savage at 800 per foot, b 30.
3 shs Savage at 770 per foot, b 10.
3 shs Savage at 760 per foot, s 10.
4 shs Savage at 790 per foot, b 30.
1 sh Savage at 750 per foot, s 30.
2 shs Savage at 760 per foot.
1 sh Savage at 760 per foot, s 3.
4 shs Yellow Jacket at 725 per foot.
1 sh Yellow Jacket at 725 per share, s 10.
2 shs Yellow Jacket at 730 per foot.
2 shs Yellow Jacket at 730 per foot, s 10.
1 sh Yellow Jacket at 750 per foot, s 3.
2 shs Yellow Jacket at 745 per foot.
1 sh Yellow Jacket at 735 per foot, s 10.
1 sh Chollar-Potosi at 325 per foot.
1 sh Chollar-Potosi at 322½ per foot.
10 shs Chollar-Potosi at 335 per foot, b 30.
5 shs Chollar-Potosi at 320 per foot.
9 shs Chollar-Potosi at 330 per foot, b 30.
7 shs Chollar-Potosi at 315@310 per share.
24 shs Chollar-Potosi at 325@320, b 30.
5 shs Chollar-Potosi at 310 per share, s 10.
16 shs Crown Point at 730 per foot, b 30.
8 shs Crown Point at 720 per foot.
4 shs Crown Point at 700 per foot, s 20.
4 shs Crown Point at 675 per foot.
4 shs Alpha, G. H., at 850 per foot, b 30.
4 shs Alpha, G. H., at 840 per foot.
3 shs Belcher at 450 per foot.
2 shs Belcher at 455 per foot.
20 shs Imperial at 172½ per share.
5 shs Imperial at 172½ per share, s 3.
10 shs Imperial at 170 per share, s 30.
5 shs Imperial at 174 per share, s 3.
25 shs Imperial at 171 per share, s 30.
25 shs Imperial at 175½ per share, s 3.
5 shs Imperial at 174½ per share.
5 shs Imperial at 172½ per share.
4 shs Exchequer, at 10 per share
60 shs Caledonia Tunnel at 60c per share.
10 shs N. American, Ex Sam, at 13, b 10.
10 shs N. American, Ex Sam, at 13½, b 10.
5 shs Overman at 65 per foot.
5 shs Overman at 61 per share.
3 shs Cal. Steam Nav. Co. at 74 p et., s 30.
2 shs Cal. Steam Nav. Co. at 74½ per cent.
6 shs Cal Steam Nav Co at 74 per cent.
2 shs Cal Steam Nav Co at 73 per cent.
2 shs Cal Steam Nav Co at 72½ per cent.
4 shs Cal S Nav Co at 72 per cent.
120 shs Spring Valley W W at 51 per ct, s 3.
Amount of sales.....$122,688 00

Monday, November 6.

90 shs Ophir at 400 per foot.
3 shs Belcher at 440 per foot, s 10.
3 shs Belcher at 440 per foot.
3 shs Belcher at 425 per foot, s 10.
3 shs Belcher at 430 per foot, s 5.
9 shs Belcher at 430 per foot, s 10.
3 shs Belcher at 410 per foot.
3 shs Belcher at 410 per foot, r w.
3 shs Belcher at 415 per foot.
3 shs Belcher at 425 per foot.
25 shs Chollar-Potosi at 290 per foot.
6 shs Chollar-Potosi at 290 per foot, s 3.
6 shs Chollar-Potosi at 290 per foot.
5 shs Chollar-Potosi at 285 per foot.
19 shs Chollar-Potosi at 300 per foot, b 30.
5 shs Chollar-Potosi at 294½ per foot, b 30.
5 shs Chollar-Potosi at 290 per foot, s 10.
5 shs Chollar-Potosi at 302 per foot, b 30.
3 shs Chollar-Potosi at 291 per foot.
5 shs Chollar-Potosi at 290 per foot, s 30.
16 shs Chollar-Potosi at 303 per foot, b 30.
7 shs Chollar-Potosi at 292½ per foot.
5 shs Chollar-Potosi at 292½ per foot, s 30.
1 sh Chollar Potosi at 293 per foot.
9 shs Chollar Potosi at 295 per foot.
8 shs Alpha, G. H., at 805 per foot.
4 shs Alpha, G. H., at 800 per foot, s 30.
4 shs Alpha, G H, at 834 per foot.
4 shs Alpha, G H, at 825 per foot.
4 shs Alpha, G. H., at 810 per foot, s 30.
4 shs Alpha, G. H., at 820 per foot, s 30.
6 shs Savage at 730 per foot, s 30.
1 sh Savage at 745 per foot.
2 shs Savage at 760 per foot, b 30.
8 shs Crown Point at 640 per foot.
3 shs Empire M & M Co. at 175 per share.
2 shs Empire M & M Co. at 175 p. sh, s 30.
3 shs Empire M. & M. Co. at 177½ per sh.
15 shs Exchequer at 12 per share.
30 shs Exchequer at 10 per share, s 10.
5 shs Overman at 55 per foot.
5 shs Bullion at 60 per share.
5 shs Bullion at 57½ per share.
6 shs Bullion at 52½ per share.
3 shs Imperial at 173 per share.
7 shs Imperial at 172½ per share.
2 shs Imperial at 172 per share, s 3.
5 shs Imperial at 172½ per share, s 3.
$ 1,500 Legal Tender Notes at 69¼ per cent.

AFTERNOON SESSION.

24 shs Ophir at 395 per foot.
24 shs Ophir at 397½ per foot.
12 shs Ophir at 400 per share, b 3.
6 shs Chollar-Potosi at 295 per foot.
2 shs Chollar-Potosi at 300 per foot, b 3.
5 shs Chollar-Potosi at 300 per foot, b 5.
6 shs Chollar-Potosi at 295 per foot, s 30.
12 shs Chollar-Potosi at 300 per foot.
5 shs Chollar-Potosi at 310 per foot, b 30.
8 shs Gould & Curry at 1025 per foot.
1 sh Savage at 735 per foot.
3 shs Savage at 730 per foot, s 3.
2 shs Savage at 725 per foot, s 3.
8 shs Crown Point at 625 per foot.
4 shs Crown Point at 625 per foot, s 3.
1 sh Yellow Jacket at 710 per foot, r w.
1 shs Yellow Jacket at 690 per foot, s 30.
1 sh Yellow Jacket at 700 per foot, s 3.
1 sh Yellow Jacket at 700 per foot, s 10.
1 sh Yellow Jacket at 700 per foot.
3 shs Imperial at 171 per share, s 3.
10 shs Imperial at 171 per share.
4 shs Imperial at 168 per share.
1 sh Imperial at 167 per share.
5 shs Imperial at 168 per share, b 5.
1 sh Confidence at 65 per share.
6 shs Confidence at 60 per share.
9 shs Empire M & M Co. at 180 per share.
7 shs Empire M & M Co. at 182½ per share.
25 shs Bullion at 50 per share.
100 shs State Telegraph at 28½ per cent.
3 shs Cal Steam Nav Co at 13½ per cent.
2 shs Cal Steam Nav Co at 73½ per ct, s 3.
Amount of sales.....$ 99,347 00

Tuesday, November 7.

5 shs Chollar-Potosi at 302½ per foot.
7 shs Chollar-Potosi at 305 per foot.
19 shs Chollar-Potosi at 320@325 per foot,
5 shs Chollar-Potosi at 310 per foot.
2 shs Chollar-Potosi at 310 per share, b 3.
5 shs Chollar-Potosi at 310 per foot, b 5.
7 shs Chollar-Potosi at 307½ per foot.
5 shs Chollar-Potosi at 307½ per foot, s 10.
1 sh Yellow Jacket at 700 per sh, r w.
1 sh Yellow Jacket at 710 per foot, s 3.
1 sh Yellow Jacket at 700 per foot, b 3.
4 shs Yellow Jacket at 695 per share, s 3.
1 sh Yellow Jacket at 690 per foot, s 10.
1 sh Yellow Jacket at 695 per foot, b 3.
40 shs Dancy at 12½ per foot.
2 shs Hale & Norcross at 260 per foot, b 30.
8 shs Belcher at 400 per foot, s 10.
9 shs Belcher at 405 per foot.
35 shs Imperial at 160 per share, s 20.
5 shs Imperial at 162½ per share, s 3.
2 shs Imperial at 163 per share.
25 shs Imperial at 162 per share, s 3.
5 shs Imperial at 162 per share.
16 shs Imperial at 163 per share, r w.
10 shs Empire M & M Co. at 165 per sh, s 30.
10 shs Empire M & M Co. at 170 per share.
2 shs Empire M & M Co at 175 per share.
10 shs Empire M & M Co, 172½ per sh, s 30.
5 shs Empire M & M Co. at 172½ pr sh, r w.
1 sh Empire Mill & M. Co. at 170, r w.
2 shs Empire M. & M. Co. at 172½, b 30.
10 shs Empire M & M Co at 175 per sh, b 30.
8 shs De Soto at 5 per share.
2 shs Bullion at 52½ per share.
12 shs Bullion at 45 per share.
5 shs Bullion at 50 per share, b 30.
5 shs Bullion at 49 per share, b 10.
20 shs Overman at 59 per foot.
1 sh Overman at 51 per foot.
1 sh Confidence at 62½ per share
23 shs State Telegraph at 29 per share.
7 shs Cal Steam Nav Co at 71 per cent.
3 shs Cal. Steam Nav. Co. at 72½ per cent.
2 shs Cal S Nav Co at 72½ per cent, r w.
$ 1,000 Legal Tender Notes at 69½ per cent.

AFTERNOON SESSION.

1 sh Savage at 750 per foot, b 11.
1 sh Savage at 730 per foot.
1 sh Savage at 725 per foot.
4 shs Alpha, G. H., at 820 per ft, s 30.
4 shs Alpha G, H., at 815 per foot, s 10.
8 shs Alpha, G. H., at 800@810 per ft, s 30.
8 shs Yellow Jacket at 680 per foot, b 3.
2 shs Yellow Jacket at 675 per foot.
4 shs Gould & Curry at 1075 per foot, b 30.
8 shs Gould & Curry at 1060 per foot.
4 shs Gould & Curry at 1040 per foot, s 30.
4 shs Gould & Curry at 1040 per foot, s 60.
7 shs Chollar-Potosi at 305½ per foot.
5 shs Chollar-Potosi at 300 per foot, b 5.
5 shs Chollar-Potosi at 308 per foot
5 shs Chollar-Potosi at 307½ per foot, s 5.
6 shs Belcher at 400 per foot, s 5.
12 shs Ophir at 407½ per foot, b 30.
40 shs Dancy at 13 per share.
5 shs Empire Mill & Mining Co. at 172½.
5 shs Imperial at 168 per share, r w.
8 shs Imperial at 160 per share, s 3.
15 shs Imperial at 160 per share.
5 shs Imperial at 158 per share.
10 shs Imperial at 158 per share, r w.
2 shs Imperial at 167 per share.
10 shs Imperial at 168 per share.
5 shs Imperial at 157½ per share, s 3.
13 shs Overman at 57½ per share.
10 shs Overman at 60 per foot, b 30.
15 shs State Telegraph at 29 per cent, s 3.
Amount of sales.....$126,429 00

Wednesday, November 8.

24 shs Ophir at 407½ per share, b 30.
60 shs Ophir at 390 per foot, s 60.
26 shs Ophir at 390 per foot.
72 shs Ophir at 395 per foot.
26 shs Ophir at 405 per foot, b 10.
24 shs Ophir at 392½ per foot, s 3.
12 shs Ophir at 405 per foot, b 5.
6 shs Gould & Curry at 1080@1090 per foot.
20 shs Dancy at 14 per foot.
2 shs Savage at 750 per foot.
1 sh Savage at 750 per foot, s 3.
1 sh Savage at 770 per foot, s 3.
1 sh Savage at 780 per foot, s 3.
3 shs Belcher at 400 per foot, s 30.
6 shs Belcher at 402½ per foot.
12 shs Belcher at 400 per foot.
3 shs Belcher at 402½ per foot.
11 shs Chollar-Potosi at 319@330 per foot.
5 shs Chollar Potosi at 340 per foot, b 30.
10 shs Chollar-Potosi at at 325 per foot.
5 shs Chollar-Potosi at 322½ per foot, b 30.

1 shs Yellow Jacket at 675 per foot.
1 sh Yellow Jacket at 665 per foot, r w.
1 sh Yellow Jacket at 665 per foot, b 10.
1 sh Yellow Jacket at 665 per foot.
1 sh Yellow Jacket at 665 per foot, s 5.
2 shs Yellow Jacket at 670 per foot.
2 shs Hale & Norcross at 250 per foot.
16 shs Hale & Norcross at 150 per foot, b 30.
4 shs Hale & Norcross at 160 per foot, b 30.
20 shs Imperial at 169½ per share.
5 shs Imperial at 160 per share.
5 shs Imperial at 159 per share.
10 shs Imperial at 161 per share, b 30.
5 shs Imperial at 158 per share.
35 shs Imperial at 158 per share, b 3.
5 shs Imperial at 157½ per share.
10 shs Imperial at 167 per share
5 shs Imperial at 156½ per share.
30 shs Empire M & M Co. at 65 per sh, s 60.
5 shs Empire M & M Co. at 165@162½.
20 shs Overman at 62¼ per foot.
5 shs Overman at 61 per share, b 10.
10 shs Overman at 62 per share, r w.
7 shs Overman at 62 per foot.
15 shs Overman at 61 per foot.
10 shs Overman at 62 per foot, b 5.
2 shs Confidence at 60 per share.
3 shs Confidence at 62½ per shares 3.
5 shs Confidence at 62½ per shar.
Legal Tender Notes at 69 per cent.

AFTERNOON SESSION.

60 shs Ophir at 390 per foot, s 60.
12 shs Ophir at 395 per foot, b 30.
12 shs Ophir at 399 per foot.
48 shs Ophir at 395 per foot.
12 shs Ophir at 393½ per foot.
12 shs Ophir at 390 per foot, s 3.
2 shs Hale & Norcross at 81 per ft, b 10
2 shs Hale & Norcross at 175 per foot, b 10.
4 shs Gould & Curry at 1100 per foot, s 30.
1 sh Savage at 730 per foot.
1 sh Yellow Jacket at 660 per foot.
1 sh Yellow Jacket at 670 per foot.
1 sh Yellow Jacket at 675 per foot.
1 sh Yellow Jacket at 675 per foot, r w.
4 shs Crown Point at 80 per foot.
4 shs Crown Point at 80 per foot.
6 shs Chollar-Potosi at 310 per foot.
20 shs Dancy at 13 per foot.
18 shs Empire M & M Co at 162½@165.
30 shs Empire M & M Co. at 160, s 30.
10 shs Empire M & M Co. at 160, s 60.
5 shs Imperial at 159 per share.
15 shs Imperial at 157 per share, s 30.
10 shs Imperial at 160 per share.
14 shs Confidence at 70 per share, s 30.
10 shs Confidence at 69 per share, s 30.
10 shs Confidence at 70 per share.
10 shs Confidence at 68 per share pr ct s 3.
$ 5,000 Legal Tender Notes at 68½.
$ 6,000 Legal Tender Notes at 68¾ per cent.
Amount of sales.....$163,398 00

Thursday, November 9.

12 shs Chollar-Potosi at 310 per foot, s 10.
5 shs Chollar-Potosi at 320 per foot, s 5
2 shs Chollar-Potosi at 383 per foot, b 30.
20 shs Chollar-Potosi at 325 per foot.
3 shs Chollar-Potosi at 325 per foot, s 5.
3 shs Chollar-Potosi at 327½@325, r w.
10 shs Chollar-Potosi at 325 per foot, b 30.
5 shs Chollar-Potosi at 327½ per foot, b 5.
5 shs Chollar-Potosi at 325 per foot, s 30.
4 shs Gould & Curry at 1100 per foot
16 shs Gould & Curry at 1090 per foot, s 30.
4 shs Hale & Norcross at 195 per foot.
2 shs Hale & Norcross at 197 per foot.
4 shs Hale & Norcross at 200 per foot, b 3.
34 shs Ophir at 393½ per foot.
12 shs Ophir at 402½ per foot, b 3.
13 shs Ophir at 400 per foot, b 30.
24 shs Ophir at 395 per foot, b 10.
6 shs Belcher at 400 per foot.
5 shs Yellow Jacket at 675 per foot, s 30.
1 sh Yellow Jacket at 690 per share.
2 shs Yellow Jacket at 710 per foot, s 3.
1 sh Yellow Jacket at 710 per foot.
5 shs Yellow Jacket at 700 per foot, s 30.
1 sh Savage at 735 per foot.
5 shs Overman at 61 per foot.
16 shs Overman at 62 per foot.
30 shs Wide West at 1 per share.
5 shs Imperial at 165 per share.
5 shs Imperial at 167½ per share.
10 shs Imperial at 169 per share, s 3.
10 shs Imperial at 169 per share, b 5.
5 shs Imperial at 169 per share, b 10.
10 shs Imperial at 168½ per share, b 10.
5 shs Imperial at 167½ per share.
5 shs Imperial at 170 per share. s 3.
5 shs Imperial at 174 per share. b 30.
5 shs Imperial at 170 per share, b 5.
5 shs Imperial at 173 per share, b 30.
10 shs Confidence at 65 per share.
5 shs Confidence at 70 per share.
16 shs Confidence at 70 per share, b 3.
5 shs Confidence at 69 per share.
5 shs Bullion at 62½ per share.
5 shs Bullion at 62 per share, r w.
1 sh Empire M & M Co. at 165 per share.
22 shs Cal S Nav Co at 73½@74 per cent.
$ 5,000 Legal Tender Notes at 69, b 30.

AFTERNOON SESSION.

6 shs Chollar-Potosi at 325 per foot.
3 shs Chollar-Potosi at 322½ per foot.
6 shs Chollar-Potosi at 320 per foot.
5 shs Chollar Potosi at 320 per foot, b 40.
5 shs Chollar-Potosi at 325 per foot, b 15.
5 shs Chollar-Potosi at 317½ per foot, r w.
5 shs Chollar-Potosi at 315 per foot, s 30.
60 shs Ophir at 390 per share.
36 shs Ophir at 400 per foot, b 30.
120 shs Ophir at 385 per foot, s 10.
12 shs Ophir at 387½ per foot, r w.
14 shs Ophir at 395 per foot, b 30.
1 shs Yellow Jacket at 661 per foot.
1 sh Yellow Jacket at 670 per foot, s 30.
2 shs Yellow Jacket at 680 per share.
1 sh Yellow Jacket at 680 per foot, b 15
2 shs Yellow Jacket at 665 per share, s 30.
2 shs Hale & Norcross at 240 per foot.
20 shs Imperial at 168 per share, s 10.
10 shs Imperial at 167 per share, s 30.
11 shs Imperial at 170 per share, s 3.
10 shs Imperial at 169 per share, s 5.
15 shs Imperial at 169 per share, s 3
10 shs Imperial at 165 per share, s 30.
5 shs Imperial at 170 per share, b 10.
5 shs Imperial at 170 per share, b 5.
10 shs Imperial at 169 per share, s 10.
5 shs Overman at 70 per foot.
6 shs Cal Steam Nav Co at 71@73½ per cent.
Amount of sales.....$184,640 00

Friday, November 10.

14 shs Chollar Potosi at 315@312½ per foot.
15 shs Chollar-Potosi at 315 per foot, b 30.
25 shs Chollar-Potosi at 312@310 per foot.
12 shs Crown Point at 725@700 per foot.
8 shs Crown Point at 770@775 per foot.
6 shs Empire M & M Co. at 170@165.
35 shs Imperial at 160@159 per share.
60 shs Imperial at 158@157 per share.
10 shs Hale & Norcross at 210@205 per foot.
1 sh Savage at 740 per foot.
276 shs Ophir at 395@385 per foot.
1 sh Yellow Jacket at 690 per foot.
100 shs Dancy at 13½@15 per share.
5 shs Overman at 65 per foot.
15 shs Sullion at 60@57½ per shafe.
28 shs Confidence at 70@77 per share.
10 shs Exchequer at 10 per share.
20 shs State Telegraph at 29¾ per cent.
$10,000 Legal Tender Notes at 69 per et, b 50

AFTERNOON SESSION.

28 shs Crown Point at 760@720 per foot.
5 shs Chollar-Potosi at 308@311 per foot.
30 shs Sullion at 56@57½ per share.
60 shs Ophir at 392½ per foot.
32 shs Alpha at 800@790 per foot.
15 shs Empire M & M Co. at 162½ per sh.
5 shs Confidence at 75@76 per share.
7 sh Steam Nav Co at 74 per cent.
5 shs Overman at 65@62½ per share.
12 shs Hale & Norcross at 207½ per foot.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assesments and Delinquent Sales.

Comprisinz the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Adams, Petroleum, Contra Costa co.,	$7.50	Nov. 3	Nov. 15
Aster, Storey co, Nev.,	$1.50	Nov 11	Nov 27*
Arizona Copper, Arizona,	25c	Nov 25	Dec 8
Atlantic and Pacific		Special Meeting,	Dec 11
Boston, El Dorado co.,	50c	Nov 7	Nov 21
Bullion, Marin co.,	50c	Nov 4	Nov 20*
Butte, Humboldt co.,	$1.50	Nov 15	Nov 27
Bunker Hill, El Dorado co.,	$1.50	Dec 1	Dec 15
Comet, Petroleum, Humboldt co,	30c	Nov 18	Dec 4*
Colorado M. and M. co.		Annual Meeting,	Nov 13*
Caledonia Tunnel,		Annual Meeting,	Nov 13*
Chloride Ledge, Calaveras co.,	$1	Nov 13	Dec 2*
Cosala, Sinaloa, Mex.,	$1	Nov 17	Nov 30
Camargo, Lander co., Nev.,	$5	Nov 25	Dec 9*
Chipioneun, Sonora, Mex.,	$5	Dec 2	Dec 16*
Caledonia Tunnel, Gold Hill, Nev.,	$2	Dec 11	Dec 21
Dancy, Lyen co., Nev.,	$1.50	Nov 6	Nov 25
Eveca Cons., Del Norte co.,	50c	Nov 4	Nov 20*
El Tesoro, La Paz, Lower California,	$1	Nov 16	Nov 28
Emelia Guerrero, Mex.,	25c	Nov 25	Dec 9*
Eagle, Amador co.,	75c	Nov 25	Dec 14*
Exchequer, Storey co., Nev.,	$2	Nov 24	Dec 9
El Portento, Mex	63c	Nov 18	Dec 2
Florida, Reese River, Nev.	$10	Oct 16	Nov 13
Franco Americana, San Antonio, L. C.,	25c	Nov 21	Dec 4
George Washington, Alpine co.,	$1	Dec 9	Dec 26*
Golden Rule, Dividend		Payable Oct 20	
Gold Canon Cons., Storey co., Nev.,	55c	Nov 6	Nov 25
Gold Hill Tunneling, Storey co., Nev.,	75c	Dec 5	Dec 23
Guasaparis, Chihuahua, Mex.,	$10	Dec 7	Dec 23
Goodwin, Lander co., Nev.,	$2	Dec 9	Dec 26*
Honest Miner, Lander co.,	50c	Oct 23	Nov 13*
Hanscom, Copper, Del Norte co,	15c	Nov 11	Nov 27*
Hale & Norcross, Storey co., Nev.,	$25	Nov 27	Dec 11
Hornet, Lander co., Nev.,	50c	Oct 21	Nov 21*
Hibernia, Arizona,	10c	Nov 25	Dec 8
Imperial		Dividend Payable Nov 10	
Jewett, Storey co.,	$1	Nov 11	Nov 25*
Jefferson, Yuba co.		Dividend $15	
Knox, Alpine co.,	40c	Nov 11	Nov 25*
Kookuk, Contra Costa co.,	10c	Nov 16	Dec 4*
London, Siskiyou co.,	50c	Oct 30	Nov 11
Lady Bell, Del Norte co.,	15c	Nov 2	Nov 14
La Victoria, Mariposa co.,	$3	Nov 4	Nov 20
Leon, Esmeralda co., Nev.,	35c	Nov 17	Dec 18
Lally Bell C M Co.		Adjourned Annual Meeting,	Nov 23
La Favorita, Sonora, Mex.,	50c	Nov 25	Dec 9*
La Fernandez, Sonora, Mex.,	$5	Nov 23	Dec 8
Libertad, Sonora, Mex.,	$5	Nov 21	Dec 6
Mammoth, Alpine co.,	$1	Oct 23	Nov 13*
Melones and Stanislaus, Calaveras co.,	$250	Nov. 7	Nov 20
Maria, Chihuahua, Mex.,	$1	Nov 18	Dec 2*
Mount Davidson, Storey co., Nev	$1	Dec 2	Dec 20*
Nuestra Senora de Guadalupe, Jalisco,	$6	Dec 8	Dec 16
Nuestra Senora de Cuadalupe, Durango,	$1	Dec 4	Jan 20
Oroville, Butte co.,	$1	Nov 18	Dec 2*
Open Sesame		Annual Meeting,	Nov 14
Pizarro, Lander co.,	10c	Oct 21	Nov 4*
Potosi, Storey co., Nev.,	$9.50	Nov 6	Nov 20
Patrocina and Dolores		Annual Meeting	Nov 13
Porter, Butte co., Cal.,	$1	Nov 18	Nov 30
Peninsula, San Antonio District, L. Cal.,	$10	Nov 17	Nov 30
Providential, Reese River		Annual Meeting,	Nov 8
Porter, Butte co.		Annual Meeting,	Nov 27
Refugio, Chihuahua, Mex.,	$2 50	Nov 11	Nov 23
Southern Light, Lander co.,	50c	Oct 23	Nov 15*
Salambo, Tuolumne co.,	75c	Nov 6	Nov 25
San Fernando, Potrelcum		Adjourned Meeting,	Nov 13*
Sierra Valley, Plumas co,	$1	Nov 13	Nov 25
Salambo, Tuolumne co.,	75c	Nov 6	Nov 25
Santa Cruz, San Antonio, Lower Cal.,	$3	Nov 17	Nov 29
Savage, Storey co., Nev.,	$100	Nov 28	Dec 13
Santa Cruz, Petroleum,	40c	Nov 25	Dec 14*
Segregated Belcher, Gold Hill,	$4	Nov 25	Dec 9*
Sierra Valley		Annual Meeting,	Nov 13
San Francisco "Moss Ledge,"	$5	Nov 30	Dec 15
Simpson, Alpine co.,	25c	Dec 2	Dec 16*
Spring Hill, Nevada co., Cal.,	$10	Dec 1	Dec 12
Table Mountain, Calaveras co.,	50c	Dec 2	Dec 18*
Triunfo, San Antonio, L. C.,	$1	Dec 1	Dec 14
Wide West, Esmeralda co.,	$5	Nov 16	Dec 4*
Wide West, Esmeralda, Nev.,	$5	Nov 6	Nov 20
White & Murphy, Storey co., Nev.,	$5.50	Dec 4	Dec 18
Zenith, Calaveras co., Cal.,	$3.25	Dec 9	Dec 23*

*Those marked with an asterisk (*) are advertised in this journal.

Agent Wanted.

A good Canvassing Agent can secure permanent and remunerative employment by calling at the office of the Mining and Scientific Press, 505 Clay street.

DEWEY & CO.,
Publishers and Job Printers,
Office Mining and Scientific Press, San Francisco.

BACK VOLUMES.

Back files of the Mining and Scientific Press, from January 1st, 1864, to the present time, will be furnished at $3 per volume of six months; bound in cloth, $5.

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS,

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Astor	Oct 12	1 00
California Consol M and M Co	Oct 17	1 00
Exchequer	Oct 14	2 00
Globe	Oct 18	1 00
Gold Hill Tun A M Co	Nov 3	75
Hale & Norcross	Oct 27	25 00
Imperial	Oct 28	50
Kennedy	Oct 19	12 50
Mount Davidson	Nov 7	1 00
North Comstock	Nov 2	25
Peck	Oct 17	1 00
Sand Springs Salt	Oct 1	5 00
Savage	Oct 28	100 00
Segregated Belcher	Oct 28	4 00
Union (Peavine)	Oct 12	25
Utah	Oct 31	6 00
Wilso & Murphy	Nov 3	5 50

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale.
American Flat Nevada	Nov 11	Virginia
Bullion	Nov 9	Virginia
Bishop	Dec 6	Gold Hill
Central Hawkeye	Nov 13	Gold Hill
De Groot	Oct 31	Virginia
Globe	Nov 16	Virginia
Gold Canon	Nov 25	San Francisco.
Keystone	Nov 21	Gold Hill
Kossuth	Dec 2	Virginia
Mount Blanc	Nov 3	Virginia
Mount Moriah & Lincoln	Nov 28	Gold Hill
North American	Nov 10	Virginia
Nevada	Dec 8	Virginia
Orleans Flat	Nov 24	Virginia
Schiller	Nov 21	Virginia
Sand Springs, Salt	Nov 30	Virginia

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	60@	67
do pickled ₱ lb	65@	75
do Oregon	50@	60
do New York, ₱ lb	40@	50
Cheese, ₱ lb	25@	35
Honey, ₱ lb	30@	40
Eggs, ₱ doz	@	70
Lard, ₱ lb	33@	
Hams and Bacon, ₱ lb	28@	30
Cranberries, ₱ gal	75@	1 00
Potatoes, sweet, ₱ lb	2@	5
do Irish, ₱ lb	1@	2½
Tomatoes, ₱ lb	5@	8
Onions, ₱ lb	6@	—
Apples, No. 1, ₱ lb	4@	10
Pears, table ₱ lb	3@	10
Plums, dried, ₱ lb	15@	25
Peaches, dried, ₱ lb	15@	25
Grapes, ₱ lb	5@	15
Oranges, ₱ doz	75@	1 00
Lemons, ₱ doz	1 50@	2 00
Chickens, apiece	62@	1 00

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 50 @	7 00
Do Superfine	6 00 @	6 50
Corn Meal, ₱ 100 lb	@	4 00
Wheat, ₱ 100 lb	1 80 @	2 00
Oats, choice, ₱ 100 lb	1 35 @	1 50
Barley, ₱ 100 lb	90@	1 05
Beans, ₱ 100 lb	3 20@	3 40
Potatoes, ₱ 100 lb	75@	1 12
Hay, ₱ ton	10 00 @	15 00
Live Oak Wood, ₱ cord	6 00 @	10 00
Beef, on foot, ₱ lb	6@	7
Beef, extra, dressed, ₱ lb	12½@	15
Sheep, on foot	1 00 @	2 00
Hogs, on foot, ₱ lb	10 @	12
Hogs, dressed, ₱ lb	15 @	16

Groceries, Etc.

Sugar, crushed, ₱ lb	16½@	17
Do China	10 @	12½
Coffee, Costa Rica, ₱ lb	27½ @	30
Do Rio	27½ @	
Tea, Japan, ₱ lb	85 @	95
Do Green	70 @	90
Hawaiian Rice, ₱ lb	10 @	12
China do.	6 @	10
Coal Oil, ₱ gal	1 35 @	1 50
Candles, ₱ lb	24 @	26
Ranch Butter, ₱ lb	55 @	70
Isthmus do	40 @	42
Cheese, California, ₱ lb	20 @	16
Eggs, ₱ doz	60 @	65
Lard, ₱ lb	26 @	28
Ham and Bacon, ₱ lb	26 @	28
Shoulders	20 @	22
Soap—Pale & C. Oa	13 @	
Castile	15 @	16

San Francisco Metal Market.

PRICES FOR INVOICES.

Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

San Francisco, Nov. 4th, 1865.

Iron.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1½c ₱ lb; Sheet, polished, 3c ₱ lb, common, 1½@1¾c ₱ lb; Plate 1½c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2½c ₱ lb.

Scotch and English Pig ₱ ton	40	@—
American Pig ₱ ton	38	@40
Refined Bar, bad assortment, ₱ lb	2½	@—
Refined Bar, good assortment, ₱ lb	3¼	@—
Boiler No. 1 to 4	4	@ 4½
Plate No. 5 to 9	4½	@—
Sheet No. 10 to 13	4	@—
Sheet No. 14 to 20	5	@—
Sheet No. 24 to 27	5½	@—

Copper.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb.

Sheathing ₱ lb	30	@32
Sheathing, Old	25	@35
Sheathing, Yell	30	@32
Sheathing, Old Yell	12	@12
Bolts	—	@—
Composition Nails	30	@32

Tin Plates.—Duty: 2½c ₱ lb.

Plates, Charcoal, IX ₱ box	10	@12
Plates, I C Charcoal	9	@10½
Roofing Plates	9	@ 10
Banca Tin Slabs, ₱ lb	41	@42½
Steel.—English Cast Steel, ₱ lb	12½	@16
Quicksilver.—Per lb	—	@65
For export	55	@—
Zinc.—Sheets ₱ lb	9¼	@10
Lead.—Pig ₱ lb	7	@ 6
Sheet	10	@12
Pipe	10	@12
Bar	9¼	@10

San Francisco Stock and Exchange Board.

San Francisco, November 4th, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ —	$ 74
Gov. Legal Tender Notes	68¼	68¾
State Bonds, 7 ₱ cent	86½	..
San Francisco 10 ₱ cents	..	..
San Francisco Bonds, 1855, 6 ₱ cent	70	..
San Francisco Bonds, 1858, 0 ₱ cent	65	..
Sacramento City Bonds, 0 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	60	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	77½
Butte County Bonds, 10 ₱ cent	..	80
California Navigation Co	73¾	74
State Telegraph Stock	29	29¾
San Francisco Gas Co	99	..
Sacramento Gas Co	..	75
Spring Valley Water Co	51	51¾
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	45	47
Central Railroad Co	..	..
North Beach and Mission	47	49
MINING STOCKS.		
Ophir	$ 365	$ 390
Gould & Curry	1060	1125
Empire M. & M. Co	....	....
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	600	825
Chollar-Potosi	310	315
Hale & Norcross	205	210
White & Murphy	....	....
Sierra Nevada	....	..
Dancy	..	..
Burning Moscow	..	..
Lady Bryan	..	..
Sacramento & Meredith	..	....
Burnside	....	....
Iowa	....	....
El Dorado	....	....
North American	....	....
Baltimore American	....	....
Yellow Jacket	680	665
Overman	56	60
Cedar Hill Tunnel	....	....
Wide West	2	4
Crown Point	770	775
Antriope	....	....
Emeralda	1	5
Aetna	....	....
Real del Monte	..	15
Silver Hill	....	....
Utah	....	....
Justis	..	..
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co.	....	....
Melones and Stanislaus	....	....
Shehs	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H	63	65
Enckeye	....	....
Dick Sides	....	....
Imperial	156	157
Alpha	625	675
Bajazett	..	....

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IN THE

MINING AND SCIENTIFIC PRESS.

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Notices of Meetings, per square, four weeks	2 50
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Slips of Advisements, printed for meetings or assessments, per hundred	1 00
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DEWEY & CO., Proprietors.

Patent Agency and Job Printing Office, 505 Clay street, San Francisco. July 1 1865

HENDY'S IMPROVED BLOW-PIPE.

This Convenient Helpmeet

— TO THE —

ASSAYER, CHEMIST, DENTIST, JEWELLER, PROSPECTOR AND MILLMAN,

Can now be procured, at the Patentee's price, by sending your orders, by mail or otherwise, to the

Office of the Mining and Scientific Press.

This article was more fully mentioned in the Press of April 15th, 1865. Since that time, however, Mr. Hendy has made a further improvement by attaching a rubber hose between the mouth-piece and the pipe, enabling the blower to change his position without disturbing the direction or constant accuracy of the current on the object upon which it is turned. The main portion of the blow-pipe is made with a joint, at which a valve is placed, which is opened when the operator blows and closed immediately when he ceases. By this arrangement the little bag or oladder is readily filled at a single breath, and with very little exertion. When so filled, a continous current of air is forced from the nozzle of the pipe by the mere contractive force of the gutta percha. This force is uniform until the air is very nearly exhausted. The current may be easily varied or entirely cut off by gently pressing the fingers upon the neck of the bladder above the nipple to which it is attached.

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Our Circulation.—The Mining and Scientific Press has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Mining Summary.

CALIFORNIA.

TRINITY.—The Trinity *Journal* says: "We hear of active preparations for the mining season in every portion of the county, and much intelligence which we have not room to print this week. At Hay Fork unusual activity prevails. Francis & Bark are pushing their ditch to completion with all possible activity. When finished it will open rich diggings for a large number of men. Mr. Francis showed us a two-ounce specimen the other day, and mentioned having taken $700 from one of the claims in a single week. Miners are gathering on the lower river, there being some forty or fifty in the vicinity of Cedar Flat already. The population of the county is increasing, and the times generally cheering.

SHASTA.—We learn from the *Courier* that the Highland mill has made another clean-up from work done in pieces of days amounting in the aggregate to about seven. Result, $3,021. There is not water sufficient to run the mill more than a few hours at a time, and the company is only crushing small parcels of rock. The *Courier* thinks large results will be obtained when they get water enough to run full time. Sam. Grover's new mill, the Honeycomb, is running only four stamps; but is taking up from eighteen to twenty ounces per day from the copper plates alone.

SIERRA.—The *Messenger* says that the quartz mining interests of Sierra have been gaining steadily the last two years; but the numerous rich strikes have created no special excitement outside their immediate vicinity. Work on many prominent ledges is in a promising state of forwardness, and with the erection of several new mills in the spring, and the steady prosperity of others now working, we may expect a healthy activity, such as the miners of Nevada and Grass Valley now so freely enjoy, and which promise something certain for the future.

The claims in the vicinity of Howland Flat are all paying finely, and the miners are happy and contented.

The Keystone mine is making splendid runs of late, with prospects improving. We have received no figures.

NEVADA.—The *Transcript* says that during the past year hundreds of miles of quartz claims have been located, and probably more than one-third of the gold product of the country is from claims struck within two years. Times are better now in this county than they have been for a number of years, and the prospect for the future is bright. Prospectors are confident of the great mineral resources of the county, and for several years to come prospecting will be continued with unabated zeal.

One hundred pounds of rock from the Wagoner ledge was recently worked by mill process, which paid at the rate of sixty dollars per ton.

Capt. Kidd is pushing ahead very vigorously at the Gold Tunnel. That mine has ever been regarded as one of the best in the county, and with the improved knowledge now possessed of working quartz mines and of saving the gold, it ought to pay much better than in former days.

The Grass Valley folks have made another "big strike," whereat there is much rejoicing. This strike was made in what is known as the Brennan tunnel, but which, we believe, was commenced originally by Dr. Delavan, while he was agent for the Rocky Bar company, previous to the advent of Mr. Brennan, who, it will be recollected, got discouraged, and killed himself and family. The lode is a continuation of that owned by Watt & Co. It is now owned by twelve persons, who have spent upwards of three years upon the work since its resumption, and have just been rewarded by fortunes which can scarcely be estimated. The ledge where they struck it is two feet thick, literally studded with gold!

From fifty tons of rock on the Shamrock, located at Forest Springs, a gold brick was recently taken which weighed 136 ounces, and is valued at $2,500. This claim is owned by working men, and the rock was taken out at a depth of ten feet.

The placer diggings of this county appear to be equally flourishing with their quartz claims. The Nevada *Transcript* says that rich gravel has recently been struck in the claims of Tanner & Flint, near Fall Creek. A shaft was sunk to the depth of sixty feet, and gravel struck which prospected as high as six dollars to the pan. The gold is coarse.

The owners of the hydraulic mines are now actively engaged in fitting their claims up for winter operations. Flumes and ditches are being prepared, hose and iron pipe purchased, and all necessary implements prepared for the prosecution of this branch of mining. The miners expect an early and favorable winter for their work, and if they are not disappointed, very large sums will be washed out in the hydraulic claims of this county during the season.

PLACER.—The Placer *Herald* says that the interest in quartz prospecting is increasing from day to day in this county, and locations are constantly being made by old resident miners, as well as by persons from a distance. In several claims the indications are very encouraging for developing rich leads. Work on the Conrad claim has been prosecuted until the shaft is down twenty feet, and at the latter depth some very rich rock has been taken out—the gold being profusely distributed through the quartz. Eastern and western extensions of this lead have been taken up, and gold has been found in the croppings as well as in the dirt adjacent to the ledge.

The Auburn *Stars and Stripes* says, W. W. Dean and others have recently discovered some apparently rich croppings on a quartz ledge one and one quarter miles from Ophir. Selecting specimens from different spots along the ledge for a distance of eight hundred to one thousand feet, they sent them to Waters & Co., of Sacramento, for assay, from which the following results were obtained: gold $69.24, and silver $191.62 per ton, or a total yield per ton of $260.86.

The *Stars and Stripes* thinks that if the same prospects which have been discovered in that neighborhood within the last six months, had been obtained in some districts thousands of miles off, and comparatively inaccessible, the fact would have roused a furore, and started thousands on their way thither.

TUOLUMNE.—We have seen, during the past week, at the publication office of the daily *Flag* in this city, several hundred pounds of exceedingly rich rock, being a sample from a vein about two feet thick, in the Toledo mine, at the Rawhide Ranch, about six miles from Sonora, Tuolumne county, a locality famous for many years past for the extraordinary richness of the quartz in its vicinity. The samples contain a large amount of free gold, and a great percentage of arsenical pyrites rich in gold. According to the *Flag*, this rock assays at the rate of $3,000 per ton! The company owning this mine have spent upwards of $60,000 in prospecting it thoroughly, and having satisfied themselves that the vein is extensive, and rich beyond precedent, they are about to purchase improved machinery and a mill to commence operations for obtaining the fruits of their enterprise and perseverance.

CALAVERAS.—Another important copper strike has been made at Copperopolis, which is thus related by the *Courier*: About two weeks ago, the Kentucky company, located between three and four miles from Copperopolis, commenced sinking a shaft a few hundred yards from the old works. Last week, at a depth of fifteen feet or more, they struck some exceedingly rich ore, and later accounts state that the lead is rapidly widening out and improving in richness. We learn from a gentleman who inspected the lead early this week that at that time it was five feet in width at the bottom of the shaft. The strike is believed to be one of considerable importance, as the ore is worth from forty to one hundred and sixty dollars per ton.

Messrs. Depew & Co. have built a mill on their claim on Sport Hill, for the purpose of crushing the dirt taken out of their tunnel. Experience has proved in this section that the clayey dirt, taken from some of our tunnel claims, pays far better by being worked in a mill than by any other process. Depew & Co. have put up an excellent mill of ten stamps for the purpose of crushing this dirt. It will be run with water from a ditch, and will be started as soon as water comes.

AMADOR.—We condense the following items from the Amador *Ledger*:

George J. Sanger, R. K. McCoy and two other prospectors have struck a splendid lode, at School House gulch, half mile east of Pine Grove.

Frank Lavasso has shown us several fine specimens of blue gold bearing rock taken from a newly discovered lode on his ranch near Pine Grove.

The Aorta, a newly opened mine, owned by Barron, Fake & Co., is turning out some of the richest rock that we have seen for a long time. They have on hand some 80 tons which will pay from $60 to $80 per ton. The mine is located on Grass Valley creek, a half mile north of Pine Grove.

Fogus & Co., purchasers of the Golden Gate mine, have bought Boyle & Co.'s mill on Sutter creek. They are enlarging and making various improvements.

Dr. Wesler is taking out some very rich rock from the Pandora shaft. The mine promises to be one of the richest in that vicinity.

Holley & Stevenson, near Clinton, in putting down a new shaft, found some huge specimens, many of them containing half their weight in gold.

The Union Mill, owned by E. F. Steen and superintended by Capt. B. B. Bliss, is now in splendid order, and turning out fine looking rock for W. J. Paugh.

The *Despatch* learns that the Eclipse mill company are taking some very rich rock out of their claim near Amador City. They had some of the rock crushed a few days ago, which was taken out at a depth of 45 feet, and its yield is said to have surpassed the most sanguine expectations of the members. The lead is nine feet wide and is owned by Messrs. Leach & Co.

VIRGINIA CITY AND VICINITY.

We find but very little of especial interest, the past week, from this vicinity. We append the following items:

We notice that a gang of men are at work selecting the best pay rock from the refuse dumps of the Savage and Chollar Company's claims. Two years ago what is now being selected was then thrown aside as no good, but lately mill men conceived the idea that if selected it would pay to work. Now that rock is a little scarce, mill men are looking out for most anything that pays. We were informed by one of the men that the rock pays about $90 to the ton.

Smelting works have been erected in Genesee District, and are at work on ores from the local mines. New mills, new machinery for mines and new enterprises of all kinds characterize the country, which bids fair to be a most flourishing section.

The bullion shipments from Gold Hill, by Wells, Fargo & Co., during the past week, amounted to the large sum of $106,187 37. Weight of bullion, 3,344 pounds; number of bars, 65.

The Cosmopolitan (copper) claim, over in Genesee District, recently sold for $150,000 to a New York company.

HUMBOLDT.

A correspondent of the Humboldt *Register* says that the present prosperous and happy state of affairs in Humboldt county, notwithstanding her many reverses, her Indian wars, and worthless old quartz mills, is owing to the fact that they can now prove to the satisfaction of every one that they have mines containing untold millions of gold and silver, easy of access, awaiting only the judicious application of capital and labor to open up their wealth and remove therefrom the precious metals. These great truths can no longer be shut out from the world. Money, it is true, is scarce; because every dollar is being invested; but an examination of the mines convinces every one that Humboldt has a future that will place her foremost in the ranks of the great silver-producing regions of the world.

The *Register* asserts that the Arabia mines, in Trinity district, are the great discoveries of the age. The extraordinary width and uniform richness of the ore are said to be astonishing, and that those enormous ledges of rock are silver-bearing, and that the entire mass will yield from $50 to $200 per ton. The Montezuma mine in Arabia, and the Montana mine in Sacramento district, are especially mentioned as the most valuable mines in the State of Nevada. The former, it is said, would support an entire county; the mineral already developed will yield a million of dollars. If such is the case we trust the proprietors will keep it free from the speculating fraternity of this city—a body of men who can add to or take from the selling value of a mine any amount which they may wish, and who do either to accomplish their own selfish ends as they may wish to buy or sell. There are men, and moneyed men, in this city, however, who are honorable men, and who will employ their capital in an honest manner; but such are not those who employ Montgomery street brokers to manipulate mining stocks for them, and who generally contrive to secure the management of such mines as they elect to operate with.

The Essex mine is on the Neptune series, below the Empire claim. Parties have succeeded in disposing of an interest in the claim for a fund with which to develop it. Funds having been sent out from New York for the purpose, four hands are going ahead with the work. The Empire and Tallulah, we believe, are now in the New York market, offered on similar terms.

REESE RIVER.

The Reese River *Reveille*, insists that Austin is now the most flourishing town, for its population, of any place between San Francisco and Salt Lake, and challenges any one to deny the assertion.

Some fine quartz is reported as being found in the Sacramento district. That of the Montana, Bullion, and, indeed, most of the veins, consists of an exceedingly hard quartz of a bluish cast; and as it contains but a small quantity of the base metals, from which silver ore chiefly derives its color, and from which its value is often judged, some have thought the ore from this district was not very promising. A careful examination, however, appears to show that the rock from this district is generally rich, notwithstanding these apparently unfavorable indications. But little work, however, appears to be going on in that district at present.

The Old Dominion ledge, says the *Reveille*, in Blue Spring district, is a monster vein of between 150 and 200 feet thick. The Comet company have located a claim on this leviathan, where it is fully 150 feet wide. In the body of the vein on this claim there is a compact mass of ore, which assays from $28 to $68 of silver per ton. The mine is well located for working. The enormous size of this ledge, as well as the quality of its ore, will render it eventually one of the most famous mines in the world.

The Eureka mill at Canon City, Big Creek, was recently put in motion, with greatly improved machinery and apparatus. It is under the superintendence of Mr. Murphy, late of San Francisco, but now of the assay department of the National Bank of this city.

The proprietors of the Morse ledge, on Lander Hill, recently sent five tons of ore to the California mill for reduction, which assayed $753 of silver to the ton; the mill agreeing to work up to eighty per cent. of the assay. A few very rich specimens may be selected from the vein that will easily assay over a thousand dollars. In our opinion, says the *Reveille*, the Morse will prove a "rich strike" to its owners.

EASTERN CAPITAL IN THE OREGON MINES.

A very handsome sum, said to be as high as $300,000, has been offered by New York capitalists for the Ruckel mine, formerly known as the Rockfellow, and situated on Powder river, Oregon. The property consists of a 10-stamp quartz mill, driven by water power, with an average crushing capacity of fifteen tons per day. The ledge is located on the Emigrant road about seven miles from the mill, and ore is hauled in wagons at a cost of $5 per ton. There are several distinct lodes from which the mill is supplied. There is but little wood or water at the mines; but a great abundance of alkali. The mine was discovered by some old miners as they were passing by on the road. There are good "indications" at intervals for a distance of several miles along the outcrop of this lead. There are also several parallel ledges. The rock contains but little pyritous ore; the gold being mostly free. The main lead was struck by the tunnel 110 feet from the surface, and 116 feet from the point where it was commenced. About twenty-five men are employed about the mine. Col. Ruckel, late president of the Oregon Steam Navigation Company, is the principal owner of the ledge, the work upon which is under the management of Capt. Coffin, formerly of the California Steam Navigation Company.

Wood & Fogus' interest in the Morning Star gold and silver ledge, Owyhee, has been conditionally sold through, or to, a prominent New York banker, for $800,000. Wilson Waddingham has purchased the interest of the White Brothers in the Confederate Star and Idaho, Alturas county, for $25,000, and is in treaty for other valuable ground. Mr. Waddingham has been extremely fortunate in his quartz operations, and is now the proprietor of several of the richest ledges in Idaho. During his late visit to the Eastern States he has not only realized a fortune, but justly earned for himself the character of an upright and honorable man. His fair and impartial representation of the quartz interest has been of incalculable benefit to Idaho, and entitles him to the good wishes of all who desire to see Oregon and Idaho flourish. Mr. Waddingham's success in forming a company in New York affords very good evidence that the miners of Oregon need entertain no further fear that they will want for capital to fully develop the country.

LOOK TO YOUR BLACK SAND.—The black sand from placer tailings, sometimes, contains gold (auriferous sulphurets). It would be well for miners to ascertain if they have such sand in their tailings. A mining company at North San Juan, Nevada county, are saving the black sand, having ascertained that it contains about half the gold in their claim. They have now put up pans for grinding and amalgamating the sand, and expect to save all the gold.

Mechanical.

EFFECTS OF HEATING, ROLLING, HAMMERING, AND ANNEALING METALS.

Elaborate experiments and careful observations have developed many interesting and important facts with regard to the variations of density, etc., which different metals undergo in different degrees, in the operations of heating, drawing, rolling, hammering and annealing.

At a temperature rather above a cherry-red, iron wire will remain three months, surrounded with charcoal, without cementation taking place, while a white heat will, in five minutes, render brittle a square bar of malleable iron, eight-tenths of an inch in diameter.

Wires of copper, and of alloys of copper and zinc, are increased in diameter, and diminished in density, by annealing. The operation of rolling condenses metals more than that of wire-drawing. The density of iron and copper will be greater if the metals are heated before being passed through the rollers. The reverse is the case with alloys of copper and zinc. The density of metals is greatest when drawn into very fine wires. Hence, two small wires are stronger than one large one of the same transverse area with the united areas of the small ones. This result grows out of the fact that the particles of the smaller wires are compacted throughout their entire cross section, while those of the latter are thus compacted for a certain depth only.

Wires may be increased in length in two ways—first, by diminution in the case of its cross section; and second, but only in a slight degree, by increasing the distances between the component particles. When wire is lengthened by the latter process, it returns to its former length by annealing.

Again, wires of certain different metals, after passing through the same hole in the wire-drawing plate, have different diameters; but all such subsequently acquire equal diameters during the process of annealing. The diameter of a wire is said to increase very slowly by time, after passing through a wire-drawing plate. Wires which have been bent, and subsequently straightened, have a tendency to re-acquire the same curvature by time.

Wires exposed to a high heat lose part of their tenacity. They require to be annealed in wire-drawing, not to render them more tenacious, but to allow the particles to resume the positions from which they may again be displaced.

The loss of tenacity is common to copper, iron, platinum, and the alloys of copper and zinc.

Hydrogen has an action on copper and silver, at high temperatures, which permanently separates their particles. On alloys of copper and zinc, and even of silver and copper, it has no such action.

Brass wire approaches to iron in strength, while copper wire is much inferior to it; hence, brass is much used instead of iron where the latter would oxydize too rapidly.

Iron wire is made of different qualities, to stand a strain from 75,000 up to 130,000 pounds to the square inch. The tenacity of brass iron varies from 78,000 to 87,000 pounds to the square inch; while copper wire will part at from 38,000 to 44,000 pounds.

These facts, with many others of a like character, have been carefully arrived at by many and most elaborate experiments, and a knowledge of them is valuable to every mechanic.

Oedino's Reflector.—This is the name of a new invention just patented by John Oeding of this city, and designed as an improvement on the ordinary kerosene lamp. It consists of a simple looking-glass reflector, of any size desired, which is attached to the lamp by a ring, and placed at such an angle as to reflect the light upon the proper place, at the same time it shades the eye from the blaze of the lamp. For writing, sewing, or other work requiring strong light, the reflector will be found very beneficial, while it can be afforded so cheap as to be within the reach of all.

Manufacturing and Tempering Sword-Blades in India.

The swords manufactured in the Regency of Cutch, an English province in Eastern Asia, have long been celebrated in India for their wonderful strength and enduring edge. The following description of their mode of manufacture was communicated to the British public, some years since, by an English army officer who had long held a military command in that province, and who had an opportunity of learning the process of manufacture and tempering employed in producing these wonderful blades:

An inch bar of fine English or Swedish steel is first forced out into plates seven inches long by one inch broad, and one-sixth of an inch thick. Similar bars of very fine soft iron are then prepared in the same manner. These pieces of forged steel and iron are smeared over with a paste of borax, dissolved in water, and laid up in piles of between nine of steel to three of iron, alternately; each pile is then wrapped around with thickly plastered mud, made of a loamy earth; then heated, welded, and drawn out to a bar of one inch and one-eighth broad, and one-third of an inch thick. This is bent over upon itself three or four times, and again welded and drawn out to half an inch in thickness, and during the heat borax is frequently dropped on the metal while in the fire. Two or three bars of this metal thus prepared are next welded into one, and when about twelve or fourteen inches long, is bent into the form of a staple; in the middle of this piece a fine grained file is now inserted, of the same width and nearly as thick as the bent bar; all is now welded together, and the blade then formed.

In tempering, an earthen pot, twelve inches wide and six deep, is notched on the edge, the notches being opposite to each other. The notching is done with a file, and about a quarter of an inch deep. The pot is now filled nearly up to the notches with water, and oil is then poured upon the surface. The sword-blade being heated equally to a light red heat, is removed from the fire, and the point entered into the notch on one edge is passed across the surface of the oil and water to the opposite notch, keeping the edge from a quarter to half an inch in the oil; the blade is thus drawn backward and forward rather slowly till the hissing ceases, and the rest of the blade above the fluid has become black; a jug of water, without oil, is then poured along the blade, from heel to point. In order to take out the warp produced by tempering, the blade, when nearly cold, is passed over the fire three or four times, then placed again upon the anvil, and set straight, by striking it regularly, but moderately, with the hammer. By this means a Damascus-curved blade may be brought nearly straight. Blades made in this way are proved, previously to grinding, by striking them upon stones, ramrods, and gun-barrels. They may even be struck violently upon wheel-tires, or heavy pieces of iron, without injury to the hammered edge.

Duly Appreciated.—We have several times had occasion to speak of the superiority of Hendy's gang circular saw-mills over the ordinary saw-mill, both in the amount of work which it will turn off, and the manner in which it turns its work out. The only mill of this description yet in operation on this coast, is on Little River, Mendocino county. This mill recently turned out 32,500 feet of lumber in twelve hours. The engine that runs this mill is 14-inch bore and 18-inch stroke. The agent here says that the mill is not able to supply the demand, and one of the mills is now being fitted up at Trinidad, Humboldt county, and will soon be sending its lumber into market. One million of feet are now on hand ahead of the supply. This demand arises mainly from the superiority of the quality of the lumber which it produces.

One of the most curious articles of an exhibition now being held in England, says the Chicago *Journal*, is a steam-engine and boiler, in miniature, and described as the "smallest steam-engine in the world." It stands scarcely two inches in hight, and is covered with a glass shade. The fly-wheel is made of gold, with steel arms, and makes seven thousand revolutions per minute. The engine and boiler are fastened together with thirty-eight miniature screws and bolts, the whole weighing fourteen grains, or under one-quarter of an ounce. The manufacturer says that the evaporation of one drop of water will drive the engine eight minutes. This dwarf piece of mechanism was designed and made by a clock manufacturer in Horsforth, England.

An Important Pan Improvement.

The Virginia *Enterprise* gives the following description of the process for enameling amalgamating pans, which, we should suppose, might be of much value and importance:

We yesterday visited the new enameling furnace which has just been constructed, and is about going into operation on H street in this city. The furnace, which is of peculiar construction, is the invention of Mr. John Ramsdahr, and the enamel applied to the invention of Mr. Charles H. Golden. Both the furnace and the enamel are patented. The material used forms on mullers, pan bottoms and the sides of pans a coating similar to the enamel on many iron kettles used for culinary purposes, though unlike this the composition of the enamel we speak of is such that it withstands the action of all kinds of acids. The enamel is intended to be used in coating the interior of pans used in mills where the ores are crushed dry and roasted. It appears that where ores are thus treated, that the roasting with salt decomposes the base metals contained and leaves in the powder a combination of the various acids evolved in the shape of a salt or salts which, on being put into a pan and properly moistened with water for the purpose of amalgamation at once attack the iron of which the pan is composed. Iron pans used in mills where roasted ores are treated seldom last more than from four to six months, when their bottoms are found to be eaten through. The enameled pans will last at least a year and a half—perhaps two years. The enamel is of a brown color when burnt and adheres so firmly to the iron that it cannot be cut off with a chisel. Another peculiar and excellent property of the enamel is, that after having been put upon the iron, no subsequent heatings of the metal affect it. It shrinks and expands with the iron, and, though a pan bottom coated with the enamel were heated red hot and dropped into cold water, the enamel would not be in the least degree cracked or affected. The enamel is of a red color before being fixed to the iron by heat, and is spread on the pans or mullers with a trowel in the shape of a thin mortar. The furnace, which is peculiarly constructed, is of a circular form and sufficiently large to take in the largest sized pan, or pan bottom. Five pan bottoms can be at once enameled. The interior of the furnace is made of boiler iron with a brick wall outside, leaving a space all round of some six inches, into which charcoal can be fed through six iron doors constructed for the purpose. Besides the heat thus obtained there is underneath the furnace a large fire-place for burning wood. After the mullers, pans or pan bottoms have been properly coated with the enameling composition they are placed in the furnace which is covered by two conical lids of boiler iron, the inner one of which is four inches smaller than the outer, and the fires are started. After a red heat has been kept up for twenty-four hours the operation is complete. Although the piece of iron to be coated may stand on its edge, the enamel does not run off when it is melted. The pan bottoms which are now being prepared for enameling are for the Manhattan Mill, Reese River, where the ores are all roasted after crushing, and where they find their pans quickly rendered worthless from the action of the acids in the ores. Mr. Golden was for a long time engaged in the Central Mill in this city, where the dry crushing and roasting processes were used and where he had a good chance to see the necessity for some improvement in pans and ample opportunity for trying all sorts of experiments upon enamels by merely coating pieces of iron with various materials and subjecting them to the heat of the reverberatory furnaces used for roasting ores. The enamel will be valuable for many uses besides the coating of pans; it can be used upon pump tubes and all kinds of iron pipe to protect them from rust.

Prospecting Mill.—The editor of the *Mountain Messenger* informs us that the citizens of Downieville contemplate erecting a small and convenient prospecting mill in that town, for the purpose of affording the miners thereabouts a cheap method of testing their ores. Associations for similar purposes might be formed in many of our mountain towns, greatly to the encouragement of the mining interests of such localities, and the improvement of business generally.

The Borax Yield.—The Napa *Reporter* chronicles the arrival at Napa of a large wagon, laden with 11,500 pounds of borax, from the Borax Lake, in Lake county. The driver informs the editor that he makes semi-weekly trips. Thus it will be seen that about 25,000 pounds of this mineral are shipped to San Francisco weekly by the company. The borax is shipped in boxes of about 200 pounds each.

The Diamond Drill—Its History and a Description of the Machine.

Perhaps the most important improvement which has been effected of late years in the important and constantly increasing business of cutting and dressing stone, is the adoption of the principle employed in what is known as the Annular Diamond Drill, as manufactured by the Annular Drill Company of this city. For many years the method almost universally employed to produce holes or cuts in masses of rock or ore, either in mining, blasting, quarrying, tunneling or stone-cutting, has been the slow and tedious one of percussion, by repeated blows with a steel instrument upon one spot, until little by little the desired orifice was formed.

Several years ago a distinguished civil engineer of Geneva, Switzerland, M. Rodulph Leschot, being desirous of obtaining some more rapid and efficient method of quarrying rock than any then in use, instituted a series of experiments in different modes of cutting. It was not difficult to produce by machinery any desired motion of the cutting instrument, but the great and for a time apparently insurmountable difficulty which intervened was that the hard surface of the rock so rapidly abraded the edges of even the hardest steel instruments that really little practical advantage was gained over the old plan. What was to be done? The answer was at hand.

The diamond had long been employed in cutting and polishing other precious stones; why not employ it in piercing the impracticable rock? It was done. A number of diamonds set in the face of a cylindrical cutter head, at once accomplished all that could be desired, cutting a clean, circular groove (whence the term "*annular*") into the rock, destroying but little of the material, and leaving a core which could be easily removed.

The first application of M. Leschot's plan on a large scale was at Pistoja, Italy, where it was employed in cutting a railway tunnel, and gave the fullest satisfaction to the engineers employed on the work.

A small steam drill, employing this principle, is now in daily operation at No. 144 Greene street, in this city, which fully illustrates at once the manner and the excellence of its operation. With the application of comparatively very slight power, a hole $1\frac{3}{4}$ inches in diameter is pierced in hard granite at the rate of $1\frac{3}{4}$ inches per minute. In North river bluestone, it easily penetrates three inches per minute. Both the cutter and spindle being hollow, enables a stream of cold water to be constantly passed through them, keeping the instrument cool, and effectually clearing the hole of all debris. This machine has now been several months in operation, cutting various specimens of granite, gneiss, North river bluestone, sand-stone, and marble, and thus far with little or no apparent wear of the diamonds.

The invention has been patented in England, on the continent and in this country, and the company owning the patent for the United States are now employed in manufacturing machines for power and hand work, adapted to all the various uses to which the principle can be applied.

For all purposes of rock-blasting, either on land or in submarine operations, it appears to be excellently adapted, as it should operate equally well in any depth of water, or in cutting, excavating or quarrying on land.

In prospecting for coal, or other minerals or metals, it would probably prove a very efficient aid, as the core which it cuts out would show the successive geological formations of each foot of its progress, and enable the miner to drive a shaft with complete assurance of success.—*New York Tribune.*

A Productive Mine.—We learn from Mr. G. B. V. DeLamater that the Cosumnes Copper Co., whose mine is situated about four miles east of Michigan Bar, have shipped this season over one thousand tons of copper ore, of very good quality. Some shipments assaying over 30 per cent. The main shaft is now 380 feet deep and they have copper ore at that depth. With a larger force the ore could be got out and shipped more rapidly. The mine is but five miles from the Placerville and Sacramento railroad, and has a great advantage in shipment of ore, over any copper mine in the State.

Tuolumne Mountain Mining Company.—The annual meeting of this company, for the choice of officers, was held on Monday last, at the office of Byrne & Freeloa, Court Block. We understood that the company have raised and reduced quite an amount of very good rock and that the mine is a very promising one. We have been promised some further particulars with regard to it, which we shall probably be able to give in a week or two. The stockholders are anxious to see a full report of the condition and prospects of the mine.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides and the evidence of any error which may appear will be received in friendship and treated with respect.

American and Foreign Patents.—Letters Patent for inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the credit system.

San Francisco:
Saturday Morning, Nov. 11, 1865.

THE MINERS' CONVENTION.

So far as we have observed, all the papers published in the mining counties, and some others, have expressed a decided wish for a Miners' State Convention. The only hitch, now, appears to be: How, where and when to call it. The Marysville *Appeal* has suggested that some of the papers published in the mining counties should take the responsibility of making the call. These papers, however, have declined to act in the matter, and some of them have referred the matter to the publishers of the MINING AND SCIENTIFIC PRESS, for the reason that this paper makes the subject of mining a speciality, and is more generally circulated through *all* the mining districts than any of the local journals. We have also received several private letters making the same suggestion. Well, rather than see the proposed Convention dropped, by reason of no one offering to take the responsibility of its call, we have concluded to throw off our usual reserve of modesty, and will venture to name WEDNESDAY, the 17th day of January next, as the time; and Sacramento as the place for holding the Convention. We have placed the day thus distant, with the view of not allowing it to interfere with the holidays. We should be pleased to hear from our cotemporaries upon the matter, and if the call as suggested meets with no special objection, we shall place it in a proper position in our columns, and do the best we can can to make the Convention a success in every particular.

THE MINING BUREAU.—We have received a copy of the Constitution and By-laws of the California Mining Bureau, and are pleased to learn that the association is laboring industriously to carry out the useful purposes for which it has been organized—to advance the material interests of this State and the mining interests of the Pacific Coast generally. Its headquarters are at room No. 7 southeast corner of Pine and Montgomery streets, where it is proposed to establish a mineral cabinet, and where it is proposed to gather and keep full and reliable information with regard to the character and general management of the various mining operations on this coast, for the benefit of the members of the organization and for such public use as shall be determined upon, from time to time, by the association. There is no doubt but that such an institution might be made of great service in developing the mineral resources of this coast, and largely instrumental in collecting useful and reliable information by which the community may be greatly benefited. We trust the affairs of the Bureau may be managed with such a degree of intelligence and discretion as will secure for it the confidence and support of the public, and enable the organization to make itself felt as a power for good.

EARTHQUAKE PHENOMENA.

NUMBER III.

In a former number, under the above head, we attempted to explain the philosophy of the "carthquake-wave," and noted the generally-received theory that all carthquakes, so far as they are developed on the surface, are simply transits of waves of elastic compression, moving outward in every direction from the center of disturbance.

There is a certain class of earthquake phenomena, however, which, by many, is supposed to indicate a character of disturbance which cannot be attributed to waves of this description; among them we may mention an apparently *circling or rotatory motion*, by which objects, such as chimney-tops, etc., are sometimes turned partially around on the base from which they are broken. Such occurrences are frequently noticed in our California earthquakes. A remarkable instance of this class of phenomena is recorded of certain obelisks, standing before the monastery of San Bruno, in Calabria, which were slightly twisted upon their axes in the great earthquake of 1783.

Translatory movements, in a horizontal direction, are also noted as incousistent with this law, by which avenues of trees become displaced, without being uprooted, and patches of ground change their relative positions. Perhaps the most remarkable instance of this character of disturbance is that recorded of the great earthquake of Riobamba, in the province of Quito, South America, which occurred February 4th, 1797. That city was reduced to a complete ruin, and on clearing away the rubbish, many of the land-marks were found to be so mixed up and changed, with regard to their relative positions, that in many cases the survivors were unable to designate the boundary lines of their grounds, and the "Council of Justice" was called on to decide on conflicting claims. In one instance it is said that the ruins of one house were buried up by loose earth, upon the top of which were found the ruins of another.

Earthquakes sometimes manifest themselves by a mine-like explosion—a vertical action from below, upwards—having a tendency to project objects from the surface, either vertically or at a greater or less angle with the horizon. This class of phenomena has also by some been considered inexplicable, under the general law alluded to. A most noted instance of this class of disturbance is recorded of the same earthquake noticed above, at Riobamba, on which occasion it is said the bodies of many of the inhabitants were thrown upwards, at an angle which projected them across a small stream, and landed them upon a hill on the opposite side, several hundred feet higher than the point from which they were thrown. The effect, it will be observed, is much like the explosion of a mine, or some of our steamboat explosions, where heavy bodies are often projected to a great distance.

First, with regard to the rotary or twisting motion: This movement is now generally supposed to arise from the fact that the center of gravity of the body twisted lies to one side of a vertical plane in the line of shock, which passes through that point in the base on which the body rests, and in which the whole adherence of the body to its support, by friction or cement, may be supposed to unite, and which may be called the center of adhesion.

To make this more plain: Suppose the top of a chimney projecting above a flat roof, and also suppose that in laying a course of bricks, near where it emerges from the roof, the mason has very firmly secured the bricks upon the east side of the chimney by a good supply of mortar, while, through carelessness, the same course, upon the west side, has been very lightly and insecurely laid. The adhesion on one side is very firm, while it is very slight upon the other. Now, suppose the wave shock of an earthquake to pass along, the sudden force, which, in overcoming the inertia of the chimney-top, would topple over one which was not properly secured by a tenacious mortar in every part of a course of bricks, would, in the case above described, of one side being held comparatively firm, while the other was quite loose, exert a twisting influence. In other words, the weak side yielding promptly, would decline to move forward upon the crest of the wave, while the stronger side would obey the impulse, and part from its base only from the effect of the twist or leverage which would thus be brought to bear upon it. Hence, after the wave has passed, the chimney will be found in a twisted position, as though it had been submitted to the action of a rotary motion.

There are districts upon the earth which are sometimes exposed to two or more intersecting circles or commotions; like the intersecting circles upon a sheet of water, produced by dropping two or more stones into the same at different points. This peculiar class of earthquake phenomena is produced by simultaneous causes of disturbance acting at the same time, each within the influence of the other. Such a commotion may produce a direct rotary motion upon any given point, or small object, although the disturbance is at the same time directly referable to the general law already pointed out as the basis of all earthquake disturbances.

The translatory movements may also be quite as easily accounted for, without any infringement of this law. As has already been intimated, earth-waves are more or less modified in their progress by reflection and interference produced by irregularities and fractures in the earth's crust. Humboldt informs us, that, when soon after the earthquake of 1797, he made an examination of the ruins of Riobamba, where those translatory movements had been so marked and unmistakable, he found the loose earth had moved, like a fluid, in currents. These movements must, of course, be attributed to the fact that the earth was more firm and solid in some places than in others. It is always noticeable in this city, as well as elsewhere, that earthquake shocks are more distinctly felt on the sand-hills, and on new ground, than in those portions of the city where the buildings rest upon a rock foundation. Telegraph Hill, which is a mass of very firm rock, is much less shaken than any other portion of the city. The cause is obvious, and is analogous to that by which a loosely-constructed chimney is thrown down, while one firmly built, though perhaps upon the same roof, withstands the shock. When the earth-wave comes, the mass of sand has no fastening to the rocks upon which it rests, and by which its inertia may be readily overcome; the consequence is, that the wave in the underlying rocks passes along without any fracture, while the sand strata above, from its lack of cohesion, is thrown backward in the direction from which the shock comes, and its entire mass is disturbed with an irregular and uncertain commotion, producing much greater damage than though it were of a solid, compact body.

The great extent of displacement in the earthquake-waves of Riobamba, may be inferred from the immense translatory movements of loose earth already alluded to. In the case of one piece of ground overlying another, a subsidary movement must have first occurred, and then a forward motion; the bank or wall formed by the subsidence must have been pushed forward and inward over that which had settled. All these complicated movements may be readily conceived as within the limits of the general law which has been laid down.

In this case, however, the translatory movements were probably connected with the vertical or seemingly explosive action, to which allusion has been made. This vertical movement was, doubtless, due to the fact that the town of Riobamba was located almost directly vertical to the center of disturbance. The earth-wave, therefore, must have come upward, and with a violence and extent of displacement that, in favorable localities, developed at the surface a projective force similar to that produced by a blow upon the under side of a table or platform, which will project upwards from its surface any substance which may be lying loose upon it. We may, however, probably receive, with many grains of allowance, the extraordinary reports of human bodies being thrown several hundred feet from the earth. Humboldt, in his "Cosmos," mentions the report, without expressing any doubt of its authenticity; but we can hardly think he believed the report, else he could scarcely have credited the balance of the story which admitted that the ruins of houses, furniture, etc., completely covered the site of the city. If the bodies of the inhabitants had gone upwards and across the river, by any natural force, their furniture, houses, etc., would, undoubtedly, have accompanied them. However this may be, the cause of vertical earthquake shocks is, undoubtedly, as readily referable to the universal law which has been laid down, as any of the other more simple phenomena noted. We shall endeavor to continue this discussion at a future time.

CATALOGUE OF THE MINES OF THE PACIFIC COAST.

We have been shown a prospectus of an "Annotated Catalogue of the Principal Mines and Mineral Properties of the Pacific Coast," which is in course of preparation by Prof. W. P. Blake, from notes and data he has been collecting for several years past. It is designed to give most important and interesting facts regarding our mines, as concisely and briefly as possible, so as to avoid swelling the work beyond convenient proportions, and to include notices not only of those mines that are now successfully worked, but of all that have any apparent prospective value.

As a repository of accurate and reliable information about our mineral resources, the work will be of great value and interest to miners and capitalists, and become a standard of reference both at home and abroad. We understand that Prof. Blake will have the assistance of several persons who are familiar with the different mining districts, and that the work will be ready for the printer on the first of January next. To facilitate the labor of collecting the data and to secure a systematic presentation of the facts, blank forms have been printed and issued, and may be obtained on application by mail to Prof. Blake.

THE COPPEROPOLIS RAILROAD.—The Copperopolis *Courier* thinks there is no doubt but that the railroad projected between that place and Stockton will be completed within two years. Mr. McCarty, and several others heavily interested in the copper mines, have taken hold of the project in earnest, and are determined to see it put through at the earliest practicable day. The rapidly increasing importance of the copper interest in that section, and the necessity for cheaper transportation, urgently demand this improvement. It is moreover, feared, and not without good reason that even next year a sufficient number of teams cannot be found to haul the ore to Stockton, which will have accumulated in Copperopolis and its vicinity between now and spring. A railroad is, in fact, becoming a matter of absolute necessity.

RAILROAD TO HEALDSBURG.—The people of Sonoma county are stirring themselves to build a railroad between Petaluma and Healdsburg, via Santa Rosa. The distance is thirty-eight miles. The country is level all the way, and there is only one stream of any importance to be crossed—Russian River. The road would pass the entire distance through one of the richest agricultural districts in the State, and would open the way for an immense amount of grain and produce which could be raised in Mendocino county. The Petaluma *Journal* says that the stock has all been subscribed, and the ten per cent. required for organization of the company paid in. A meeting for the election of Directors is called for the 31st instant.

IN LUCK.—We understand that J. B. Van Hagan, formerly Sheriff of Nevada county, has recently struck some very rich placer diggings in the Blackfoot country, Montana Territory. At last accounts his claim was paying forty dollars a day to the hand.

TRIAL TRIP OF THE "RESCUE."

On Tuesday last, while sitting in our office, busy over "musty books and papers dull and dry," a note was handed us from Messrs. Goddard & Co., of the Pacific Iron Works, informing us that the above-named event was to take place at two o'clock that afternoon, from North Point Dock, and "round the bay," and inviting us "to be on hand." Nothing loth to breathing the free air for awhile, in company with such a party as we knew that Mr. Austin and Captain Griffith would be sure to call together, we gladly accepted the invitation, and the appointed hour found us standing on the deck of one of the neatest little "crafts that has ever sailed in San Francisco bay," decked with flags and streamers from stem to stern, and looking every way

"Fit to be a bride of the grey old sea"

A party of some twenty-five or thirty invited guests were on board, among whom we recognized Mr. Lewis Leland, of the Occidental Hotel, Commodore Allen, and many others of our well-known citizens, besides several commanders of vessels now lying in the harbor. Owing to the non-arrival of one of the guests, the departure of the vessel was postponed for half an hour, which was very agreeably spent by those present in admiring the beautiful model and solid workmanship of her hull, and speculating in regard to her speed. In company with Mr. Austin, we passed through the hold of the vessel, and enjoyed a fine opportunity of viewing the machinery while at rest. The screw is driven by a single vertical engine thirty-six inches in diameter of cylinder, and thirty inches stroke, with an estimated capacity of five hundred horse power. The propeller shaft is nine inches in diameter, and the screw ten feet. The boilers, two in number, are each sixty-two inches in diameter, with four inch tubes, and a horizontal steam drum forty-two inches in diameter and eight feet long. She is supplied with one 10-inch wrecking pump, and one 6-inch bilge pump (independent), besides one 5-inch engine bilge-pump, and one 5-inch feed pump. The hull is 104 feet long at the water-line, twenty-five feet beam, and draws eleven feet aft and six feet forward.

She is intended for a tug-boat for the harbor, and is owned by an association of merchants and navigators, and commanded by Capt. Griffith, one of her owners, whose high character as a gentleman and a seaman is well known to the shipping and business community of our city.

The whole of the machinery was designed by Mr. Austin, and constructed at the Pacific Iron works, of which he is superintendent. He took especial delight and pride in showing and explaining it, a pride which the machinery, both in appearance and working, fully justified.

At half-past two, the party being all on board, the little steamer cast loose from her moorings, and after running a short distance in the direction of Alcatraz to obtain sea-room and a good start, she was headed southward, and sped rapidly along the city front. As we were starting, the piercing notes of a "calliope" burst upon our ears, revealing to the guests the design of a mysterious-looking inclosure of canvas perched on the roof of the little cabin, just back of the pilot-house, which had for some time awakened their curiosity, and now filled them with delight. Passing along the crowded wharves with streamers flying and music playing, and her happy crew of excursionists laughing and singing, she was saluted with whistle and bell by the steamers, and dipping of ensigns by all the other vessels; which salutes the little "Rescue" returned in gallant style, all the while running with arrow-like speed, the water parting from her gracefully curved bows in two unbroken waves, as though it merely divided of its own accord, and not because a huge mass of oak and iron was being driven through it at the rate of fifteen miles an hour, regardless of wind and tide. During this run the engine worked admirably, making, with fifty-five pounds of steam, eighty-two revolutions of the screw per minute, and giving the vessel a speed of fifteen knots an hour, though her screw was made for towing, and not with special reference to speed.

After running southward as far as Hunter's Point, she returned by the same route, receiving and giving salutes on every hand, and passing down the seaward side of Alcatraz and Angel Islands, and through Raccoon Straits she returned along the city front to Pacific street wharf. The day was glorious, the champagne excellent, and the cakes and cheese delicious. The Rescue and everybody connected with her was toasted, from the commander to the man that made the cheese, a rousing bumper being drained to the man who played the calliope; and when at a quarter of five o'clock she landed at Pacific street wharf, the delighted guests and the immense throng on the wharf joined in three hearty cheers for the "Rescue," her builders and commander. Mr. Austin and Capt. Griffith embraced each other as in a transport of joy, and the company parted, each one evidently feeling that "it was good to be there."

A USEFUL MINING INVENTION.

E. D. McCarthy, of this city, has invented a vulcanized India-rubber tappet for quartz crushers, for which he claims many advantages over the kind at present used. The want of a tappet not liable to break or get out of order has long been felt by mill men. This invention appears to fully accomplish not only that, but does away with the principle part of the clattering noise so disagreable in a quartz mill, and which effectually precludes all attempts at conversation. Persons at all acquainted with quartz mills are aware of the serious inconveniences and frequently heavy losses from "smash-ups," resulting from the breaking of machinery, caused by the tappets getting loose and slipping on the shaft. This tappet is formed of a hollow cylinder of vulcanized india-rubber, the same as are used for car-springs, on railroads, etc., and in the same form as the ordinary iron tappet; and when once forced to its place on the shaft by screw pressure, it cannot be moved from its seat by any force or number of blows. It can only be removed by a steady screw pressure in the same manner as it was put on. A small apparatus for this purpose is furnished to every mill using the tappet. Again, it not unfrequently happens that in reversing an engine some part of the machinery is seriously injured and broken by the cam coming in reverse contact with an unyielding iron tappet. In the use of this improvement the only trouble will be the simple loss of a tappet, through the yielding substance of which the cam will plough its way without doing any other damage. The under face of the tappet, when it comes in contact with the cam, is protected by a moveable steel plate, which can be readily replaced when worn out. The first cost of one of these tappets is a trifle less than one-half that of iron, its transportation over the mountains not a fifth part as much, while it will wear much longer. In fact the tappet itself will wear for a great number of years—the only appreciable wear coming upon the moveable shoe. This apparatus will be known as the "Noiseless india-rubber Tappet." Mr. McCarthy has applied for a patent for his invention through the Mining and Scientific Press Patent Agency. One of these improved tappets may be seen at the Metropolitan Steam Coffee and Spice Mills, No. 25 Second street, in this city.

Patent Right for Sale.—The exclusive right for the manufacture and sale of "Hutchinson's Wine and Cider Mill and Press, for the States of California and Oregon, is advertised for sale in another column. It is a valuable patent, and the offer affords a fine chance for business.

OUR NEW YORK AGENCY.

Mr. Geo. M. Newton is our authorized agent in New York City, and will receive advertisements and subscriptions for the Mining and Scientific Press at regular rates. Sample copies of our weekly and monthly issues can be procured by calling upon him, at the office of the "Stockholder," **No. 72 William street.**

PHILADELPHIA AGENCY.

Parties wishing to subscribe or advertise in the Mining and Scientific Press can be accommodated by calling upon our Agent, Mr. Turner Hamilton, at the Assembly Building, 106 South Tenth street, Philadelphia, Pa., where sample copies of our publications can always be found.

Virginia Lode, Coulterville.—We have before us a very elaborate and well written report upon the Virginia lode, Coulterville, belonging to Capt. John P. Baker, Capt. J. M. Aiken, and others. We gather from this report the following particulars: The mine lies about three miles from Coulterville, near the southeast base of Buckhorn mountain. The mine is favorably located for being worked, with an abundance of wood and water for steam purposes, and for timbering. The lode is a very heavy one, well developed, varying from five to fifteen feet in thickness. A large amount of ocherous earth appears to be associated with the vein, which shows considerable free gold in the pan. The explorations of the mine, thus far, consist of three or four open cuts at different points along the line of the outcrops, and two tunnels. The vein shows bold outcropping throughout nearly its whole extent. Very rich rock is found at a point where a small ravine crosses the lode. Four assay samples selected by Mr. Clayton from various parts of the lode, where it is exposed, gave the following results:—$998.20; $109.80; $83.10; and $25.45. These results indicate the uniform gold bearing character of the vein, and also a high average grade of richness. The best pay rock in these veins appear to be in the first three feet of the hanging wall. The rock is here interlaminated with strata from six to eight inches thick, carrying more or less of the ocherous substance already alluded to. The gold is found principally in these strata or layers, and is very easily separated from the vein rock. It is pronounced to be a promising and valuable mine, with large quantities of pay rock in the croppings, and the best of evidence that it is a deep-seated and true vein.

To Printers.

We have for sale, at a bargain, a Second-hand Half-Medium (largest size), Ruggles' Engine Job-Printing Press, of most approved pattern. It is in excellent condition, and warranted to work as good as new. Apply soon, at the office of the Mining and Scientific Press. 19v11tf

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Just and True Economy
IN MINING ADVERTISING.

The Proprietors of the Mining and Scientific Press would call the especial attention of Mining Secretaries, Trustees and Shareholders, to a few substantial reasons for the publication of Mining Notices in their journal—the first and only important newspaper of its class published upon this coast.

1st. The Press enjoys a large and permanent subscription list, having a more universal circulation among shareholders and men intimately connected with mining interests than any other publication.

2d. Under the present law the publication of all mining notices on Saturday, in a weekly journal, complies as fully with the statutes as a daily publication. It is generally found to be equally as convenient for secretaries, and decidedly preferable to stockholders who have not time to examine throughout every issue of a daily.

3d. Economy in mining should always be looked upon with favor, and the cost for weekly advertising in the Press is less by one half than the rates of any other journal in this city possessing a respectable circulation.

4th. The publishers of the Press, making the mining interest their especial care, take particular pains to assist in the avoidance of errors in advertising. Our print is also more clear and perfect than can be expected in such papers as are hurriedly issued from cylinder presses.

5th. Our "Shareholders' Directory" forms a complete index of all mining notices published in San Francisco, by reference to which shareholders can at once see if their company is advertised, and determine whether the same is inserted in the Press or some other paper.

6th. Many copies of the Press are bound by prominent professional men, mechanics, secretaries, brokers, shareholders and others, as an important record for future reference, thereby rendering advertising, of every class, in its columns, of peculiar and permanent value.

7th. The benefit of having all mining notices consolidated in one newspaper, for the common convenience of shareholders, secretaries, and others who have occasion to refer to the same, is obvious. With this view we have established our rates at only fair, living prices, believing that a journal like ours, unframmeled by party, creed, or prejudice, is the only medium which can reasonably ask for such a consolidation of mining patronage.

8th. Advertisements in the columns of the Press, after their first insertion, are arranged alphabetically. Our present list is equalled only in one instance by that of any other journal. Shareholders, as well as strangers, naturally turn their attention to a mining journal for information concerning the mines and mining matters.

Last, but not Least.—Our sheet (having been recently enlarged to the size of Harpers' Weekly) is now only equalled in its dimensions by one mining paper in existence—the *London Mining Journal*. Published in this, the greatest mining field of the world, we desire that the Press shall have no superior. We can only realize our cherished object of building up a reliable advocate of the science and business of mining, which will be of just honor and profit to our community, by experience and liberal patronage. The bestowal of such favors only as naturally belong to us, and which it is clearly for the benefit of the mining fraternity to extend, is all that is requisite, and we are confident we shall receive it

DEWEY & CO.,
4v11 Office Mining and Scientific Press.

MINING BLANKS
For Sale
AT THE
OFFICE OF THE MINING AND SCIENTIFIC PRESS,
No. 505 Clay Street, corner of Sansome.

Blanks for Mining Companies, Secretaries, Shareholders and others, always on hand, or printed to order, at our office.

Among others are those of the following forms:

Shareholder's Proxy.

Know all men by these presents, that I, ... do hereby constitute and appoint ..... my attorney and agent, for me and in my name, to vote as my proxy, at a meeting of the ..... Mining Company, to be held ..... 186, according to the number of votes that I should be entitled to cast were I there personally present.

In witness whereof I have this day hereunto set my hand and seal. .....[Seal]
Dated 186

Assessment Notice.

..... Company
.....
Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the ..th day of ....., 186, an Assessment of .....per share was levied upon the Capital Stock of said Company, payable on the ..th day of .....186, in United States gold and silver coin to the Secretary.

Any stock on which said Assessment shall remain unpaid on Saturday, the ..th day of ....., 186, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on ....., the ..th day of ....., 186, to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees.

..... Secretary.
Office.....

Notice.—There are delinquent, upon the following described Stock, on account of assessment levied on the ..th day of ..... 186, the several amounts set opposite the names of the respective shareholders as follows, to wit:

Names.	No. Certificate.	No. Shares.	Amount.
Theophilus Thistle	23	14	$140 00
Peter Pipe	2	3	30 00

And in accordance with law and an order of the Board of Trustees, made on the ..th day of ....., 186, so many shares of each parcel of said stock as may be necessary, will be sold at the.....
....., on ....., the ..th day of....., 186, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

..... Secretary.
Office.....

☞ Our advertisers are furnished with blank Assessment Sale notices free of charge. Orders from the interior promptly filled, by mail or express, as may be desired.

Traveling Agent.

Mr. Robert Lattimore is now on a canvassing tour for the Press through Butte, Colusi, Tehama, Shasta, and Siskiyou counties, and we recommend him to the favorable consideration of our friends.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible.

Postponements.—We would again call the attention of Secretaries to a certain point of the mining law, too commonly overlooked, viz: The requirement that all postponements must be added previous to the expiration of the regular publication of assessment or sale notices.

English capitalists have purchased $600,000 worth of Colorado mining lands, and their agents and employees are en route to develop the same. The claims are principally in Russell and Trail Run districts, and their recent purchase has been the Seaton lode of 1,000 feet, for which they paid £100,000 alone.

Their Object.—A St. Louis paper says that the principal aim of Speaker Colfox and party in visiting the west is stated to have been to ascertain the immediate importance of a railroad to the Pacific. Their report is unanimously in favor of the early construction of the road.

Mining and Scientific Press

JOB PRINTING OFFICE,

No. 505 Clay street, corner of Sansome.

CERTIFICATES
—OF—
STOCK
—FOR—
MINING
—AND—
PETROLEUM
Companies
Neatly Printed.

Stock Certificates of all kinds embellished with wood cuts and electrotype engravings. We devote special attention to the execution of all kinds of work required by Mining Companies, Machinists and Manufacturers.

Metallurgy.

EUROPEAN
METALLURGICAL WORKS,
—AND—
Practical Mining School,
Bryant Street, Between Third and Fourth,
SAN FRANCISCO.

The Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. Kimball, J. R. Murphy.
10v10

BOALT & STETEFELDT,
Metallurgists and Mining Engineers
AUSTIN, NEVADA.
Western Branch of ADELBERG & RAYMOND, No. 90 Broadway, New York. 11v11

FIRST PREMIUM
FOR REFINING COAL OIL,
At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,
17v10 643 Third Street, bet. Brannan and Townsend.

NEW DISCOVERY
FOR DESULPHURIZING AND DECOMPOSING
METALLIFEROUS ORES,
—SUCH AS—
Auriferous Sulphurets, Arsenites or Antimonial Telluric, Gold and Silver Ores.

By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by

DANIEL ROSS,

Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me.

EDWARD ARNOLD,
Inventor and Patentee.
Monitor, Alpine county, Cal.

W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11

Professional Cards.

Our Patent Agency.

The Patent Agency of the Mining and Scientific Press has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of Letters Patent from the United States and foreign Governments cannot be over-rated, and the Proprietors of the Press, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

WM. L. DUNCAN,
Stock Broker,
Member of the San Francisco Stock and Exchange Board,
No. 605 Montgomery Street, San Francisco
Mining Shares and Legal Tender Notes bought and sold strictly on commission. Liberal cash advances made on stocks consigned for sale. 1v11-3m

S. C. BUGBEE & SON,
ARCHITECTS.
DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.
74 and 75 Montgomery Block
SAN FRANCISCO. 25v10-3m

FREDERICK MANSELL,
Mechanical & Architectural Draughtsman,
No. 422 California street, corner of Leidsdorff.
Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

JAMES M. TAYLOR,
Attorney and Counsellor at Law,
COURT COMMISSIONER, appointed by the Fourth District Court, COMMISSIONER OF DEEDS for Nevada and Massachusetts,
Court Block, San Francisco.
Entrances opposite City Hall, Merchant street, and 636 Clay street. 14v11tf

DR. H. AUSTIN,
DENTIST,
No. 634 Washington Street,
Between Montgomery and Kearny Streets
[OVER SAN FRANCISCO BATHS]
SAN FRANCISCO. 20v10-qy

OLNEY & CO.,
Real Estate, Stock, and General
Auction & Commission House,
No. 626 Montgomery Street, Montgomery Block.
JAMES N. OLNEY—Auctioneer.
Secretaries of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

AUGUST KUNAST,
Stock Broker,
Member of the
San Francisco Stock and Exchange Board,
Buys and Sells Stocks, Bonds, Etc.
Office, No. 540 Washington Street, San Francisco. 2v10

G. F. DEETKEN,
Mining Engineer and Metallurgist,
Address - - - - - San Francisco.
25v9

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for the State of Nevada and the Territory of Arizona,
AND FOR THE
STATES OF MASSACHUSETTS AND MAINE.
Office, Montgomery Block, 626 Montgomery Street,
10v8-2m SAN FRANCISCO.

GEORGE H. BAKER,
Lithographer & Engraver,
No. 522 Montgomery St., San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v3-tf

SHERMAN DAY,
Mining Engineer,
No. 56 Montgomery Block, San Francisco,
Will examine, survey and report upon mines, and cons and advise concerning investments in mining property, or the machinery management and expenditures of mines.
22n9

SANTA CLARA COLLEGE, S. J.,
SANTA CLARA, CAL.
Conducted by the Fathers of the Society of Jesus.
The FIFTEENTH ANNUAL SESSION of this College will commence on
Monday, August 28th, 1865.
TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $350
For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco.
3v11 REV. A. MASNATA, S. J., President.

Trades and Manufactures.

Pacific Glass Works
Are now prepared to execute orders for the manufacture of
All Kinds of Bottles to Order.
Office, No. 621 Clay street, San Francisco. 3v11-3m

EDWARD BOSQUI & CO.,
PRINTERS,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
No. 517 Clay street, between Clay and Sansome streets, SAN FRANCISCO. 24v10

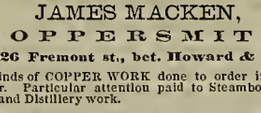
BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery and Sansome, San Francisco. 4v8-tf

JOHN DANIEL,
(SUCCESSOR TO O. GORI)
MARBLE WORKS,
No. 408 Pine st. bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs,
Etc., On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco.
Barstow's Metallic Burial Caskets and Cases.
1tf

THEODORE KALLENBERG,
Maker of Models for Inventors.
Machines, Mathematical, Optical and Philosophical Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
No. 418 Market street, San Francisco. n7-tf

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Penn.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco, Cal. 10v8-1m



JAMES MACKEN,
COPPERSMITH,
No. 226 Fremont st., bet. Howard & Folsom.
All kinds of COPPER WORK done to order in the best manner. Particular attention paid to Steamboat, Sugar House and Distillery work.
Repairing promptly and neatly attended to.
13v11

Fire, Hydraulic and Suction Hose
And Leather Belting.
M. M. COOK & SON,
861 Battery Street, San Francisco,
Are now manufacturing as above, Fire, Hydraulic and Suction Hose, and Leather Belting, of any dimension and in any quantity which may be desired. Fire Hose and Belting constantly on hand or manufactured to order. Also Saddles and Horse Collars.
The subscribers would respectfully ask purchasers to call and examine their stock—also testimonials of the efficiency of their work from such as have used their hose both for fire and mining purposes. A diploma was awarded to us last year, by the Mechanics' Institute, of this city, and a silver medal this year. 12v11-1y

NEW YORK PRICES.
WATCH REPAIRING AT NEW YORK PRICES.
C. E. COLLINS,
No. 602 Montgomery street, San Francisco.
EXCLUSIVE AGENT
—FOR THE—
AMERICAN
WATCH FACTORY.
A large assortment of these
Superior Watches,
In Gold and Silver Cases,
Constantly on hand, and sold at Factory prices. Also,
ENGLISH AND SWISS WATCHES,
Imported directly from the Manufacturers.
The American Company are now making
VERY FINE WATCHES FOR LADIES.
☞ A large assortment of Gold Chains and Jewelry. 25v10-6m
WATCH REPAIRING AT NEW YORK PRICES.
NEW YORK PRICES.

I. M. WENTWORTH & CO.,
Manufacturers and Jobbers of Ladies, Misses and Children's
Channel Nailed Boots and Shoes,
Of all descriptions. All Goods warranted as represented. No. 210 Pine street, up stairs.
Wanted—15 or 20 Shoe Bottomers, on Ladies' work. Constant employment will be given to first-class workmen, and the highest wages paid. 15v11

Machinists and Foundries.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.
UNION IRON WORKS!
Corner First and Mission streets,
SAN FRANCISCO.
ESTABLISHED IN 1849.

Having increased our facilities in every Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Quartz Mills, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.
Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter. Also, Scott and Eckart's Adjustable Cut-off Regulator—best in use; W. R. Eckart's Balance Valve for Stationary Engines; Woodward's Patent Steam Pump and Fire Engine.

Boilers.
Locomotive, Flue, Tubular, Upright, Cylinder and Cornish, and every variety of Boiler Work. All sizes of tubes and pipes for pumps.

Amalgamating Machinery.
Wheeler & Randall's Improved Tractory Curve Pan, Zenas Wheeler's Improved flat bottom pan, Beldin's pan, Veatch's tubs, Prater's concentrators, Wakice's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

BLAKE'S PATENT QUARTZ CRUSHERS, of all sizes.

Oil Boring Tools and Machinery,
Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.
We have the facilities for working gold and silver quartz and other ores, to test their value, by the hundred weight or ton.
Russia Iron Screens, of all degrees of fineness and of all qualities of iron.
All work done in the best manner at the lowest cash prices.
21v10 H. J. BOOTH & CO.

Miners' Foundry
—AND—
MACHINE WORKS,
First St., between Howard and Folsom Streets,
SAN FRANCISCO.
Every description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as
Steam Engines and Boilers, Flour, Saw and Quartz Mills,
Machinery, Mining Pumps, Amalgamators,
Retorts, Etc., Etc.
Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.
, Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities. Free of cost.
All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.
HOWLAND, ANGEL & KING.

Vulcan Iron Works Company
[ESTABLISHED 1850.]
First, Natoma and Fremont Streets.
IRON FOUNDERS,
Steam Engine and Locomotive
BUILDERS,
Boiler Makers, and Workers in Sheet Iron, Brass and Copper.
These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.
The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as
Mining, Steamship, and Steamboat Machinery,
Railroad Machinery, Flouring Mills,
Locomotives, Quartz Mills,
Car Trucks, Sugar Mills,
Car Wheels, Saw Mills,
Housings and Irons; and
Manufacturing Machinery of Every Kind.
Sole Manufacturers of
HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR;
BEATTIE'S AMALGAMATOR;
HESSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;
BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;
FAUCHERE'S QUARTZ GRINDER AND WATER WHEEL;
JONVAL'S IMPROVED WATER WHEEL;
LEFFEL'S AMERICAN DOUBLE TURBINE WATER WHEELS;
STEVENS PISTON PACKING RINGS.
They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pulleys, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, Horse Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.
Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

JOHN P. GALLAGHER. JOSEPH WEED.
GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.
ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.
Church and Steamboat Bells, of all sizes, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Ship Work in general.
☞ All Jobs promptly attended to. Prices moderate. ☜
No. 125 First street, opposite Minna next door to Pacific Foundry. 16tf
[Removed from Oregon street, between Front and Davis.

TIN ORE IN OWYHEE.—The Owyhee *Avalanche* reports the following as a veritable and reliable discovery of tin ore in that region:

In May last, Mr. W. W. Williams' attention was attracted by the weight and character of what appeared to be pebbles, in Jordan Creek. He selected a fine specimen as a curiosity, and carried it, till some two weeks since he showed it to Mr. Thos. McDonald, an experienced assayer of Humboldt county, Nevada, who tested and pronounced it a rich specimen of "stream tin" ore. As an evidence of his faith, Mr. McDonald, James T. Maclean, and W. W. Williams, immediately left Humboldt for this place, where they arrived during the past week. They have prospected the creek and find the ore in large quantities, and have fully satisfied themselves that it is tin—much of it seventy-five per cent. in value. They are confident that a rich lode of this important metal is near at hand. Specimens will be immediately forwarded to the State Department at Washington, to Professors Silliman and Torrey, and to the Secretary of Idaho Territory. A large bounty has been offered by Government for the discovery of tin in the United States in workable quantities. If this is still offered these gentlemen claim it. Specimens may be seen at this office.

NEW SUPERINTENDENT.—Mr. J. W. C. Maxwell, formerly of the Jewett Mine, has been appointed superintendent of the Overman company, in the place of Mr. C. C. Thomas, resigned. Mr Maxwell is an old miner, and under his care the Overman will be sure to strike pay rock if it can be found in that neighborhood.

CALL STABLE.

N. GISHWILLER

Would respectfully inform the public that he has opened a large and well-arranged LIVERY STABLE,

On B street, Summit City, Cal,

(two doors below the Lake House), where good Saddle and Buggy Horses can be had at all times. Our charges will be reasonable, and we hope, by prompt attention, to merit a share of the public patronage. 10v11-3m

LICK HOUSE,

Corner of Montgomery and Sutter streets,

SAN FRANCISCO.

S. ALSTROM AND G. S. JOHNSON, Prop'rs.

This elegant and commodious Hotel is situated on the principal promenade street of San Francisco. The Lick House is finished and furnished with a degree of beauty and excellence unsurpassed, combining all the modern applications and arrangements of a FIRST CLASS HOTEL, thus offering superior inducements to the traveling public. The proprietors assure their patrons that the Lick House shall not be excelled in any of its appointments, or in polite attendance or attention to all the comforts of its guests. 15v11

GEORGE T. PRACY,

MACHINE WORKS,

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

SAN FRANCISCO.

STEAM ENGINE, FLOUR AND SAW MILL

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

☞Special attention paid to Repairing.☜ qy-3

UNION IRON WORKS,

Sacramento.

WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Dunbar's Patent Self-Adjusting Steam Piston PACKING, for new and old Cylinders, manufactured to order.

Front Street, between N and O streets,

14v11 SACRAMENTO CITY.

LEWIS COFFEY. J. S. RISDON

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality. Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

MITCHELL'S

COMBINED

FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

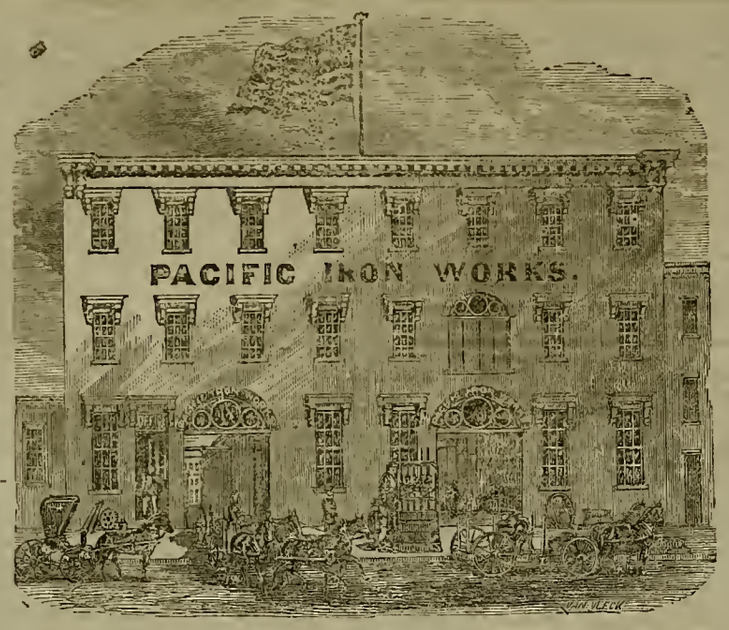
The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with GALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.

San Francisco, Aug. 22d, 1865. 10v11 3m



THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting Machinery of the most approved construction. Flour, Saw, and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully Solicited.

GODDARD & COMPANY.

BY AUTHORITY OF THE STATE OF CALIFORNIA.

Having fully complied with the law by a deposit of $525,000 bonds of the State of California, and the United States.

BIGELOW & BROTHER,

GENERAL INSURANCE AGENTS,

FIRE, MARINE AND LIFE INSURANCE,

Capital Represented.....$15,000,000.

California Deposit.....$525,000.

Office, Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.

LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets.....$1,500,000
HOME INSURANCE COMPANY, of New York, Assets..... 3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets..... 2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets..... 1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets..... 600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets..... 600,000
CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Conn.

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Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.

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Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

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Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

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MANUFACTURERS OF

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Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

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Foundry and Machine Works,

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STEAM ENGINES AND BOILERS,

Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.

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Steam Engine, Boiler and Machine Shops.

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QUARTZ OPERATOR'S HAND BOOK.

A Book for Every Intelligent Prospector, Shareholder, Miner and Machinist.

ZENAS WHEELER AND P. M. RANDALL, Authors and Publishers.

Bound in Cloth—144 Pages, Duodecimo.

The Quartz Operator's Hand Book is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

The work also contains an original and highly interesting discussion of the tracery and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs. W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Bishaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable Quartz Miner's Hand Book.

The Table of Contents of this book will be found on pa 415 of the Mining and Scientific Press of July 1st, 1865

Sold by booksellers generally. Price by mail, postag paid, $1.25. Address "Wheeler & Randall, at the Mining and Scientific Press Office, San Francisco." 2v11

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—FOR—

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The most interesting and exciting book ever published, embracing Mr. Richardson's unparalleled experience for four years. Travelling through the South in the secret service of the "Tribune" at the outbreak of the war, with our armies and fleets, both East and West, during the first two years of the Rebellion; his thrilling capture; his confinement for twenty months in seven different rebel prisons; his escape, and almost miraculous journey by night of nearly 400 miles. It abounds in stirring events, and contain more of the fact, incident, and romance of the war, than any other work yet published. Horace Greeley says of it:

"A great many books will yet be written concerning this war, in addition to the many already in print; but not one of them will give, within a similar compass, a clearer, fuller, more readable account, entirely from personal observation, of the nature, animus, purposes, tendencies, and instrumentalities of the slaveholders' rebellion, than does the unpretending narrative of Mr. Richardson."

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SCRANTON & BURR, Agents. 14v11-4t

Worth's Telegraph Reel.

Messrs. Dewey & Co.—Dear Sirs: I see a notice in your paper in regard to my Paper Reel, signed Henry McGann. All I have to say is, if I had invented such a Reel as his, in 1862 or 1863, and had not improved it more than he has, I would keep my name to myself, and not let the public know who I was. His notice puts me in mind of Shakspeare's play of "Much Ado About Nothing." My Reel is entirely different from his, and is considered, by operators who are judges of such things, to be the best; and as for the cord, I could rig one to my Reel that would run a week, but it is not necessary.

For the best Paper Reels, address

L. W. WORTH, Sonoma,

15v11tf Or, WM. LUNDBERG, San Francisco.

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Astor Gold and Silver Mining Company,

Gold Hill, Storey County, State of Nevada.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 9th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Ware, G W	129 to 131 inc	75	$112 50
Ware, G W	128	20	30 00
L Joseph	73	10	15 00

And in accordance with law, and an order of the Board of Trustees, made on the 9th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at 626 Montgomery street, San Francisco, Cal., on Monday, the 27th day of November, 1865. at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco. nov11

George Washington Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

Assessment No. 8.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 6th day of November, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, only.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 26th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, 338 Montgomery street, San Francisco. nov11

Office of the Goodwin Gold and Silver Mining Company.

San Francisco, Cal., November 7, 1865.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of November, 1865, an assessment of two dollars per share was levied upon the capital stock of said Company, payable on the 11th day of November, 1865, in United States gold and silver coin, to the Secretary, corner of Battery and Washington streets, San Francisco, Cal., or to S. C. Baker, Austin, State of Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 26th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

E. V. JOICE, Secretary.

Office, corner Battery and Washington streets. -nov11

Jewett Gold and Silver Mining Company, Gold Hill District, Storey County, Nevada.

Notice.—There are delinquent upon the following described stock, on account of an assessment levied on the 11th day of October, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
J Naphtaly	77	100	$100 00
S R Harris	88	20	20 00
S R Harris	89	20	20 00
Chas S Bowden	99	25	25 00
Chas S Bowden	07	10	10 00
Gerard Delncy	129	18	8 00
Jacob Hardy	139	20	20 00
C E McNear	not issued	82	82 00

And in accordance with law, and an order of the Board of Trustees, made on the 11th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, at the salesrooms of Maurice Dore & Co., No. 327 Montgomery street, on the 25th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

nov11 G. M. BURNHAM, Secretary pro tem.

Knox Gold and Silver Mining Company, I X L Lode, Silver Mountain District, Alpine County, California.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 7th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
C W Edgerly	7	10	$ 4 00
C W Edgerly	8	10	4 00
C W Edgerly	14	25	10 00
C W Edgerly	15	5	2 00
C W Edgerly	38	5	2 00
A L Knox	18	5	2 00
A L Knox	not issued	115	46 00
R Snodgrass	not issued	72½	29 00
P A Owens	not issued	72½	29 00
P W Travers	not issued	72½	29 00
J F Myers	not issued	62½	25 00
Jos Harris	25	10	4 00
A J Kent	27	5	2 00
R Thompson	28	5	2 00
J M Wentworth	29	10	4 00
J F Staniels	30	10	4 00
J F Staniels	31	5	2 00
T A Duffield	32	5	2 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of John Middleton & Son, 404 Montgomery street, San Francisco, on the 25th day of November, 1865, at the hour of 12 o'clock M. of sai l day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

SAM. P. HOWES, Secretary.

Office, No. 2 Odd Fellows' Hall, San Francisco. nov11

Office Zenith Gold and Silver Mining Company, Mountain Ranch District, Calaveras County, California.

At a meeting of the Board of Trustees, held November 5th, 1865, it was "Resolved, That all previous assessments levied upon the stock of this Company, being

No. 1, September 21, 1863—25 cents per share;
No. 2, October 13, 1863—20 cents per share;
No. 3, December 2, 1863—30 cents per share;
No. 4, January 8, 1864—$1 per share;
No. 5, May 3, 1864—50 cents per share;
No. 6, August 15, 1864—50 cents per share;

be, and the same are hereby annulled and declared void, and that all moneys paid to the Company on said assessments be placed to the credit of the stock on which it was paid, and apply as a credit upon the next assessment levied by the Company. By order of the Board of Trustees.

M. G. ELMORE, Secretary.

Office, No. 7 Stevenson Block, San Francisco. no11 4w

Zenith Gold and Silver Mining Company, Mountain Ranch District, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 6th day of November, 1865, an assessment of three dollars and twenty-five cents ($3.25) per share was levied upon the assessable stock of said Company, payable immediately, in United States gold coin, to the Secretary, No. 7 Stevenson Block, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 23d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

M. G. ELMORE, Secretary.

Office, No. 7 Stevenson Block, San Francisco. nov11

A Business Compliment.

Petaluma, Oct. 4, 1865.

Messrs. Dewey & Co.—Gentlemen: Your note informing me that my patent for Crushing and Baling Machine is ordered to issue is at hand. Please accept my thanks for the prompt and business-like manner with which the case has been conducted, and inclosed find twenty dollars for balance Government fees. Respectfully, etc.

JACOB PRICE.

Mining Notices--Continued.

New Mining Advertisements to be found under another heading.

Bolinas Petroleum Company, Bolinas Township, Marin County, California.

Notice.—There are delinquent, upon the following described stock, on account of assessment levied on the 21 day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Barker & Rosenfield	20	100	$50 00
Butler, W	59	10	50 00
Devaul, Jno	bal 64	80	15 00
Finley, H	34	95	47 50
Fox, H L	10	50	25 00
Foster, L J	28	25	12 50
Higgins, D	24, 31	35	17 50
Levy, E	42 to 57 inclu	25	12 50
Parker, A P	29, 32	48	24 00
Ramsay, J D	5	5	2 50
Rahl, Jno	4	68	2 00
Smith, H R	27	25	12 50
Sharp, W H	60	10	5 00
Vanderwater, W	not issued	100	50 00
Wilder, D D	33	12	6 00
Washburn, Jas	58	55	27 50

And in accordance with law and an order of the Board of Trustees, made on the 2d day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, 611 Clay street, Room 8, San Francisco, on the 20th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

nov4 W. L. KIRBY, Secretary.

Chloride Ledge Gold and Silver Mining Company. Location of mine, Blue Mountain District, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 16th day of October, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 606 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. H. SMITH, Secretary.

Office, No. 606 Montgomery street, San Francisco. oc21

Chipioneta Mining Company, District of Ures, Sonora, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of November, 1865, an assessment of five dollars ($5) per share was levied upon the capital stock of said Company, payable on the 6th day of November, 1865, in United States gold and silver coin, to the Secretary, 318 California street, (up stairs.)

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

JOHN F. LOHSE, Secretary.

Office, 318 California street, San Francisco, Cal. nov4

Camargo Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of October, 1865, an assessment of five dollars ($5) per share was levied upon the capital stock of said company, payable immediately, in United States currency, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. oc21

Notice.—The Annual Meeting of the Stockholders of the Caledonia Tunnel and Mining Company, for the election of Trustees for the ensuing year, will be held at the office of the Secretary, on Monday, November 13th, at 3 o'clock P. M.

J. M. BUFFINGTON, Secretary.

San Francisco, Oct. 13, 1865. oc14

Comet Petroleum Company, Humboldt County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 13th day of October, 1865, an assessment of thirty (30) cents per share was levied upon the capital stock of said Company, payable on the 14th day of October, 1865, in United States gold and silver coin, to the Secretary, at the office of said Company, in San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 4th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

L. CROSBY, Secretary.

Office, No. 36 Exchange Building, N. W. corner Washington and Montgomery streets. oc14

Economy in Advertising.—The Mining and Scientific Press is the best and most economical mining advertising medium in this city. Our terms are less than one half the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The Press contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

Removal.

The Office of the Mining and Scientific Press has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and au extensive Job Printing Office.

San Francisco, April 10th, 1865.

Colorado Mill and Mining Company. The Annual Meeting of the Stockholders of the above Company, for the election of a Board of Trustees for the ensuing year, will be held on Monday, November 13th, 1865, at 7 o'clock P. M., at the office of the Company, 509 Clay street, San Francisco, California.

G. M. BURNHAM, Secretary.

San Francisco, Oct. 12, 1865. oc14

Eagle Quartz Mining Company—Location of Works, Amador County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24d day of October, 1865, an assessment of seventy-five (75) cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, 605 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

JOHN M. BURNETT, Secretary.

Office, 605 Montgomery street, San Francisco, Cal oc28

Evoca Consolidated Copper Mining Company: Location of Works—Court Hill District, near Black's Ferry, Del Norte County, California.

Notice.—There are delinquent upon the following described Stock, on account of Assessment levied on the 5th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	Number of Certificate.	Number of Shares.	Amount.
F S Morison	13	3	$1 50
A H Brockway	58	50	25 00
A H Brockway	59	50	25 00
A H Brockway	60	12	6 00
Wm B Cooke	70	12	6 00
J W Tucker	82	112	56 00
Sarah O'Donnell	99	12	6 00
Sarah O'Donnell	100	25	12 50
Sarah O'Donnell	101	25	12 50
Sarah O'Donnell	102	25	12 50
Sarah O'Donnell	103	25	12 50
A O'Neil	109	12	6 00
A O'Neil	110	50	25 00
A O'Neil	111	50	25 00
P B Cornwall	143	10	5 00
P B Cornwall	144	10	5 00
P B Cornwall	145	10	5 00
P B Cornwall	146	10	5 00
P B Cornwall	147	10	5 00
P B Cornwall	148	12	6 00
J L Moody	116	112	56 00
J L Moody	125	88	44 00
E B Holmes	123	25	12 50
E R Holmes	120	25	12 50
R C Rogers	136	112	56 00
J B Baker	151	20	10 00
W H Bernard	188	56	bal due 14 00
D R Beckford	204	20	10 00
Jas M Olmstead	153	3	1 60
M H Fowler	not issued	20	bal due 5 00
Chas Ashton	not issued	20	bal due 5 00
Chas Yeomans	184	36	18 00
Chas Yeomans	185	20	10 00
Chas Yeomans	191	50	25 00
Chas Yeomans	201	50	25 00
E Barnes	193	15	7 50
A Hower	194	5	2 50
F H Rogers	108	12	5 00
H D Oliphant	200	86	43 00
H D Oliphant	199	112	56 00
G W Guthrie	168	19	9 50
G B McAneny	171	62	31 00
G B McAneny	172	100	50 00

And in accordance with law, and an order of the Board of Trustees, made on the 5th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, at No. 302 Montgomery street, Room No. 6 (third floor), San Francisco, Cal., on the 20th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

nov4 CHARLES E. ABBOT, Secretary.

Emilia Mining Company, State of Guerrero, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of October, 1865, an assessment of twenty-five (25) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, No. 55 Montgomery Block, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, San Francisco, Cal. oc28

Germania Mount Diablo Coal Mining Company, Mount Diablo District, Contra Costa County, California.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 3d day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
M R E Becker	5	1	$3 00
Ph H Graser	11	1	3 00
Gust Leipnitz	19	1	3 00
Louis Westerfeld	34	1	3 00
Louis Westerfeld	35	1	3 00
Wm Westerfeld	36	1	3 00

And in accordance with law, and an order of the Board of Trustees, made on the 3d day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at the auction rooms of Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on Wednesday, the 22d day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

E J. PFEIFFER, Secretary.

Office, 210 Post street, near Dupont. nov4

Hornet Gold and Silver Mining Company.

Location of works, Lander County, Nevada.

Notice is hereby given, that in accordance with an order made this day by the Board of Trustees of the Hornet Gold and Silver Mining Company, there will be sold at public auction, at the office of the Company, 402 Front street, by Jones & Bendixen, auctioneers, on Tuesday, the 21st day of November, 1865, at 1 P. M. of that day, to the highest bidder, for cash, in United States coin, so many shares of the capital stock of said company standing in the names of the following shareholders as will be necessary for the payment of an assessment of fifty cents per share, duly levied thereon by the Board of Trustees, on the 15th day of February, 1864, together with expenses of advertising and sale, to wit:

Names.	No. Certificate.	No. Shares.	Amount.
Argyras, B	88	5	$2 50
Addleberger, C F	8, 9, 10 each	10	15 00
Addleberger, C F	14	5	2 50
Baker, Fred	23, 29, 30, 32 each	10	20 00
Baker, Fred	35, 36, 37 each	5	7 50
Brown, W J	85	20	10 00
Casen, J D	76	10	5 00
Casen, J D	77	12½	0 25
Coddington, Geo W	80	20	10 00
Kerley, J C	38, 39 each	20	20 00
Kerley, J C	40, 41, 42 each	10	15 00
Kerley, J C	43	5	2 50
Kerley, J C	44	6	3 00
Massey, J M	53, 55 each	2½	2 50
Massey, J M	50	12½	6 25
Massey, J M	57	20	10 00
Massey, J M	60	10	5 00
Massey, J M	62	5	2 50
Romney, L W	72, 73, 74 75 each	10	20 00
Roman, Herman	87	10	0 50
Simpers, Geo W	81	20	10 00
Simpers, Geo W	82, 83, 84 each	10	15 00
Todd, Jos	1, 2, 3, 4, 5 each	10	25 00
Todd, Jos	6	12½	6 25
Todd, Jos	7	5	2 50
Tureman, C W	78	20	10 00
Tureman, C W	78, 80 each	10	10 00
Welton, E W	48, 49, 50, 51, 52 each	10	25 00
Wade, J P	04, 04 each	5	5 00
Wade, J P	65, 66, 67 each	10	15 00
Campbell, M	89, 90 each	5	5 00

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco.

San Francisco, Oct. 19, 1865. oc21

Honest Miner Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 28th day of September, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Allen, H H	bal of 294	6	$3 00
Chevers, W H	45	6	3 00
Frank, J	295	8½	4 25
Hoffman, S	297	3	1 50
Morrissy, Jno	164	2	1 00
Rosenbaum, F H	148	1	50
Reed, J L	200	7	3 50
Wightman, Jno	300	2	1 00
Work, Geo	291	2	1 00
Shipley, A J	298	2	1 00

And in accordance with law, and an order of the Board of Trustees, made on the 28th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Company, by Jones & Bendixen, on the 13th day of November, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. oc28

Jefferson Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 2, levied September 25, 1863, of fifty cents; No. 3, December 11, 1863, of fifty cents; No. 4, February 4, 1864, of one dollar, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No 2.	No. 3.	No. 4.	No. Cert.	No. shs.	Amt.
W K Smith	$10	$10 00	$20 00	4	20	$ 40 00
L B Seaver	bal 15	15 00	30 00	23, 25	40	60 00
J T Cassell	5 00	10 00	10	10	15 00	
Clarke & Blakeley	4 63	9 25	44	9¼	13 88	
S T Curtis	40 00	80 00	95, 102 ea	10	120 00	
S T Curtis	6 25	12 50	103	12½	18 75	
Jas McGahey	3 12	5 25	22	6¼	9 37	
Chas Piakerton	4 52	9 25	31	9¼	13 87	
J S Brown		11 00	130	11	11 00	
J S Brown		9 00	140	9	9 00	
S O Clifford		12 50	112	12½	12 50	
S O Clifford		25 00	131	25	25 00	
P F Boling		20 00	3	20	20 00	
A J Dougal		10 00	5	10	10 00	
G H Faulkner		5 00	41	5	5 00	
Jos Gilbert		20 00	05	20	20 00	
Jos Gilbert		20 00	66	20	20 00	
Jos Gilbert		20 00	57	20	20 00	
Jos Gilbert		5 00	135	6	6 00	
W B Gilham		7 00	133	7	7 00	
W B Gilham		5 00	40	5	5 00	
N B Jacobs & Co		10 00	42	10	10 00	
J L Janes		15 00	143	15	15 00	
H V Rex		12 00	134	12	12 00	
J O Sweetland		5 00	129	5	5 00	
H C Woodford		20 00	12	20	20 00	
N A Watson		10 00	113	10	10 00	
N A Watson		25 00	144	25	25 00	
N A Watson		46 50	147	46½	46 50	

And in accordance with law and an order of the Board of Trustees, made on the 31st day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 1st day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. nov4

Lost or Stolen.

There was lost, or stolen, from our collection of minerals, etc., at the Mechanics' Fair, a sample of the late Telegraph Cable. The lost piece is three inches in length, by one and one-sixteenth in diameter; brass ferrel on each end with raised letters, viz: "Glass, Elliott & Co., Contractors, London." Any person who will return the article to this office, or give information of its whereabouts, will be suitably rewarded.

DEWEY & CO.,
Publishers Mining and Scientific Press.

Keokuk Gold, Silver and Copper Mining Company, Clayton Mining District, Contra Costa County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of October, 1865, an assessment of ten (10) cents per share was levied upon the capital stock of said Company, payable on the 21st day of October, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, 308 and 310 Front street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 4th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees

A. B. WINEGAR, Secretary.

Office, 308 and 310 Front street, San Francisco, Cal. oc21

La Favorita Mining Company, Montezuma District, Sonora, Mexico.

SAN FRANCISCO, Oct. 25, 1865.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 25th day of October, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 26th day of October, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, 429 Sacramento street, in the City of San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of December, 1865, to pay the delinquent assessment, together with the costs of advertising and expenses of sale. By order of the Board of Trustees.

E. WASSERMAN, Secretary.

This assessment will liquidate the Company's indebtedness in full.

E. WASSERMAN, Secretary. oc28

Madison Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment No. 3, levied on the 27th of November, 1863, of fifty cents per share, and No. 4, levied February 4th, 1864, of one dollar per share, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. 3.	No. 4.	No. Cert.	No. Shs.	Amt.
B C Austin	$12 50	$25 00	08	25	$37 50
A J Bryant	2 50	5 00	99	5	7 50
S O Clifford	4 50	9 00	51	9	13 50
S O Clifford		45 00	53	45	45 00
S O Clifford		5 00	54	5	5 00
S O Clifford		5 00	56	5	5 00
S O Clifford		5 00	57	5	5 00
S O Clifford		5 00	58	5	5 00
S O Clifford		71 50	63	71½	71 50
S O Clifford		14 00	118	14	14 00
Chas G Going	bal	2 25	101	6½	2 25
N B Jacobs	5 00	10 00	75	10	15 00
Chas G Going		10 00	104	10	10 00
Chas G Going		10 00	105	10	10 00
P McAllister		25 00	16	25	25 00
P McAllister		25 00	17	25	25 00
P McAllister		25 00	18	25	25 00
P McAllister		25 00	19	25	25 00
P McAllister		10 00	21	10	10 00
J C Morrison Jr	2 50	5 00	98	5	7 50
D P McHarg		10 00	106	10	10 00
C M Pryor	20 00	40 00	48	40	60 00
C M Pryor		5 00	37	5	5 00
B L Plummer		10 00	83	10	10 00
L A Spitzer		5 00	126	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 1st day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. nov4

Marin Silver Mining Company, Chihuahua, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of October, 1865, an assessment of one dollar per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, in this city.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

AUGUST KUNAST, Secretary.

Office, 540 Washington street, San Francisco, Cal. oc21

Mammoth Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 18th day of September, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allred, W C	125, 126, 127, 128 10 ea	40	40 00
Allred, W C	not issued	155	155 00
Allstrop, Thomas	58	5	5 00
Arnold, B W	183	3½	3 35
Arnold, Mrs B W	223, 224 5-ea	10	10 00
Austin, H S	230	5	5 00
Byam, H S	8	20	20 00
Byam, H S	22	12	12 00
Butterfield, D C	99	6½	0 50
Butterfield, D C	100	6	6 00
Boggs, Geo W	122, 123 5-ea	10	10 00
Boone, Harvey	123, 124 10-ea	20	20 00
Berg, John A	146	5	5 00
Brown & Kent	292, 296 10-ea	20	20 00
Brown & Kent	293	26	26 00
Brown & Kent	177, 294, 297 5-ea	15	15 00
Brown & Kent	298	7	7 00
Browo & Kent	300	239½	239 50
Brown, Wm	259, 260 10-ea	20	20 00
Brown, Wm	261	5	5 00
Bolls, John	268	10	10 00
Bent, Charles	318	10	10 00
Crawford, Wm	not issued	44	44 00
Cornwell, James F	1, 2 10-ea	20	20 00
Clark, J W	314, 315 5-ea	10	10 00
Clark, J W	316	3½	3 50
Curran, B	216	5	5 00
Curran, Mrs B	168	5	5 00
Curran, Mrs B	267	23½	29 50
Collins, G L	278	5	5 00
Christiauson, Phillip	113	10	10 00
Clark, Thomas	204	5	5 00
Clark, P A	327, 328 5-ea	10	10 00
Creamer, M	275	33	33 00
Dutton, David	5	6	6 00
Dyson &	not issued	8	8 00
De Groll, Wm	92	5	5 00
Douglass, R E	219, 220 10-ea	20	20 00
Douglass, R E	221	5	5 00
Eckell, A W	235	10	10 00
Ekin, W A	250	10	10 00
Ellis, F M	184	5	5 00
Frances, J B	116	10	10 00
Fennis, J C	224	4	4 00
Freeman, H	152	5	5 00
Gay, Thomas	67	10	10 00
Gilbert, S W	203	10	10 00
Gilham, John	141	6	6 00
Hill, V R	135	6½	6 50
Hall, V R	100, 101 5-ea	10	10 00
Hill, V R	165	10	10 00
Herbert, A W	12	10	10 00
Harmon, Wm	274, 219 5-ea	10	10 00
Hausauer, G B	253, 254, 255 10-ea	30	30 00
Hounsinger, G B	257	5	5 00
Hounsinger, G B	258	6	6 00
Hudson, David	283	25	25 00
Justice, J D	86, 281 5-ea	10	10 00
Justice, Emeliah	84	6	6 00
Jeter, Jacob	100	12½	12 50
Kerby, J C	89	7	7 00
Kent, Wm	262	10	10 00
Kent, Wm	264	6	6 00
Kent, Wm	265	1-6	16
Kent, Wm	274	3	3 00
Larson, C	140	12	12 00
Larson, C	141, 142 25-ea	50	50 00
Larsen, C	180	13	13 00
Larson, C	not issued	61½	61 50
Lock, T J	71	10	10 00
Lock, T J	76, 77 20 ea	40	40 00
Lock, T J	73, 74 5-ea	10	10 00
Levy, G N	145	10	10 00
Lustig, Isaac	151	5	5 00
Lachman, Louis	213, 215 5-ea	10	10 00
Lumani, Charles	218	3½	3 50
Larson, Erick	272	20	20 00
Lefferts, James	not issued	5	5 00
McGee, James	11	10	10 00
Morrison, James	87	5	5 00
Mecklenberg,	115	5	5 00
Marks, M	138	5	5 00
Marks, Isaac	139	5	5 00
McCormick, H M	197	5	5 00
Mylett, James	222, 246 10-ea	20	20 00
Mylett, James	247	5	5 00
McComber, J B	276	7	7 00
McComber, J B	277	10	10 00
Mead, George	285	5	6 00
Overholt, Wm G	47	10	10 00
Owens & Pendegast	313	10	10 00
Pearson, I N	104, 153 10 ea	20	20 00
Pearson, I N	154, 155, 105, 106 5-ea	20	20 00
Pearson, I N	24	6½	5 50
Phillips, J W D	150	5	5 00
Phillips, W L	175, 176 5-ea	10	10 00
Prescott, A A	102	7½	7 50
Parker, John E	317	5	5 00
Porter, Geo K	319	10	10 00
Reed, B K	09, 70 5-ea	10	10 00
Rickard, A	90	10	10 00
Rickard, A	91	35	35 00
Shear, W C	226, 227, 228, 229, 230 10-ea	50	50 00
Shear, W C	231	11½	11 35
Scott, H D	169	15	15 00
Scott, H D	291	40	40 00
Smith, M P	207, 208, 2 9 10-ea	30	30 00
Swinerton, D E	217	4	4 00
Sullivan, Mathew	248	10	10 00
Struben, Jacob	252	10	10 00
Stilwagon, W W	not issued	5	5 00
Took, A	131	5	5 00
Toy, Daniel	166, 167 5-ea	10	10 00
Toy, Daniel	289	12	12 00
Toy, Daniel	230	29½	29 50
Tadlock, J C	196	5	5 00
Whitton, M S	65	2½	2 50
Whitton, M S	25, 26 50-ea	100	100 00
Whitton, M S	27	20	20 00
Whitton, M S	28, 29, 30, 31, 34, 37 10-ea	50	60 00
Whitton, R J	49	10	10 00
Whitton, R J	53, 54 5-ea	10	10 00
Whitton R J	96	13	13 00
Whitton, R J	not issued	10	10 00
Whitton, Wm H	43, 44, 45 5-ea	15	15 00
Whitton, Wm H	42	20	20 00
Whitton, Wm H	40	25	25 00
Whitton, Wm H	66	2½	2 50
Weed, Orlando	60, 61 5-ea	10	10 00
Weed, Orlando	279	10	10 00
Wise, David	95	5	5 00
Wheeler, W J	not issued	50	50 00
Williams, Samuel	173	10	10 00
Wickham, Wm	not issued	25	25 00
Watkins, Olivia E	199	5	5 00
Winn, Marshall	232, 233, 251 5-ea	15	15 00
Walsh, Martin	259, 271 6-ea	12	12 00
Zacek, Joseph	286	23	23 00
York, E M	305, 306 5 ea	10	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 18th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the salesrooms of Olney & Co., 626 Montgomery street, San Francisco, on the 13th day of November, 1865, at the hour of 2 o'clock, P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.

Office, 338 Montgomery street, San Francisco. oc28

Mount Davidson Gold and Silver Mining Company, Virginia District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of November, 1865, an assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 3d day of November, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 20th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

G. PARDOW, Secretary.

Office, 53 Montgomery Block, San Francisco. nov4

Oroville Gold and Silver Mining Company, Oroville, Butte County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of October, 1865, an assessment of one ($1) dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 434 California street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 2d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

oc14 ROBT. P. LEE, Secretary.

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine County, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of October, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable on the 31st day of October, 1865, in United States gold and silver coin, to the Secretary, at his office, No. 55 Montgomery Block, City and County of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, southeast corner of Washington and Montgomery streets, San Francisco. nov4

Segregated Belcher Mining Company, Gold Hill District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of October, 1865, an assessment of four dollars per share was levied upon the capital stock of said Company, payable on the 28th day of October, 1865, in United States gold and silver coin, to the Secretary, 318 California street, City and County of San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOHN F. LOHSE, Secretary.

Office, No. 318 California street (up stairs), San Francisco, California. oc28

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment (No. 7) of fifty cents per share, levied September 25th, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount
Hardy, Jas H	bal 51	5	$2 50
Work, Geo	195	2	1 00
Sharp, G F	45	4	2 00

And in accordance with law, and an order of the Board of Trustees, made on the 25th day of September, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at the office of the Company, No. 228 Front street, San Francisco, Cal., by Jones & Beodixen, auctioneers, on Wednesday, the 15th day of November, 1865, at 3 o'clock P. M., to pay the delinquent assessment, together with costs of advertising and expenses of the sale.

E. J. BRINKHOUSE, Secretary.

Office, No. 228 Front street, San Francisco, Cal. oc28

Santa Cruz Petroleum Oil Works Company, Santa Cruz County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 23d day of October, 1865, an assessment (No. 14) of forty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, R. WEGENER, 415 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Thursday, the 14th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. WEGENER, Secretary.

Office, 415 Montgomery street, San Francisco, Cal. oc28

Notice.—The Stockholders of the San Fernando Petroleum and Mining Company are requested to attend a meeting at the Office of the Company, on the first Monday in October, for the purpose of electing officers for the ensuing year.

A. N. CLARKE, Secretary.

ADJOURNMENT.—The above meeting was adjourned by a minority of the Stockholders, to the first Monday in November.

A. N. CLARKE, Secretary.

ADJOURNMENT.—The above meeting is hereby adjourned to the second Monday in November.

A. N. CLARKE, Secretary.

Office, 121 Montgomery street, San Francisco. oc7td

Table Mountain Copper Mining Company, Stonislaus District, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 1st day of November, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, in San Francisco, or to J. M. PIKE, Superintendent, at Copperopolis.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 18th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

EDWARD C. LOVELL, Secretary.

Office, No. 436 Jackson street, San Francisco, California. nov4

Wide West Mining Company, Esmeralda District, Esmeralda County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 18th day of October, 1865, an assessment of five ($5) dollars per share was levied upon the capital stock of said Company, payable immediately, in gold coin of the United States of America, to the Secretary, at the office of the Company, No. 103 California street, San Francisco.

Any stock upon which said assessment shall remain unpaid on the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 4th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale.

J. P. DAVIS, Secretary.

Office, 103 California street, San Francisco. oc21

GEOGRAPHICAL LOCATION OF AUSTIN.—Mr. Wm. Epler, U. S. Deputy Surveyor, arrived in Austin last evening with five assistants, having just completed a survey of the fourth standard parallel from the Truckee river, a distance of one hundred and fifty miles eastward, thus completing this parallel three miles east of Grub's Wells, which is some forty-three miles east of Austin. He commenced this survey on the 18th of September, and finished it on the 24th inst.

Mr. Epler states, according to Lieut. Ives' observations, taken at Lake Bigler, that Austin is located in 39 degrees 29 minut s 31 seconds north latitude, and 117 degrees 4 minutes of longtitude west from Greenwich; and that its survey location is Township 19 north, range 44 east Mount Diablo meridian. Mr. Epler and party leave Austin this evening in their own conveyance, for Carson.—*Reese River Reveille.*

Deserved Testimonial..

GRIZZLY FLAT, Oct. 18, 1865

MESSRS. HUNGERFORD & HENRY—*Gentlemen:* We have run your Concentrator for several days past, in our 5 stamp Mill, and, as far as can be ascertained at present, it is a perfect success. When running at the rate of from two hundred and ten to two hundred and twenty-five revolutions per minute, we have lost neither quicksilver nor sulphurets. Formerly, when using copperplate riffles and blankets, we found that in spite of the utmost precaution, quicksilver would escape over them all. Wishing you all success, we remain Your obedient servants,

E. A. BIGLER.
S. F. DAVIS.

17vt1qy

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C. MULLER,

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No. 3 Montgomery street, Masonic Temple, San Francisco. Old Frames reset with suitable Glasses or Brazilian Pebbles. 15vt1-2m

REMOVAL!

R. WEGENER,

Accountant and Mining Secretary

Has removed to

No. 415 Montgomery Street—wes side,

Between Sacramento and California sts.,

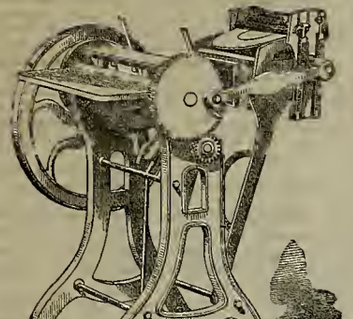
6v10 SAN FRANCISCO.

STILL PROGRESSING!

THE OFFICE OF THE

Mining and Scientific Press

was removed, April 8, to the old printing stand lately known as Waters Bros. & Co.'s, southwest corner of Clay and Sansome streets (one block south of our former location), where we have consolidated with a



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CIRCULARS,
MINING REPORTS.

Orders from the interior will receive prompt attention. We shall take care to secure correctness in all work executed for parties out of town. Small packages will be forwarded by mail at our expense.

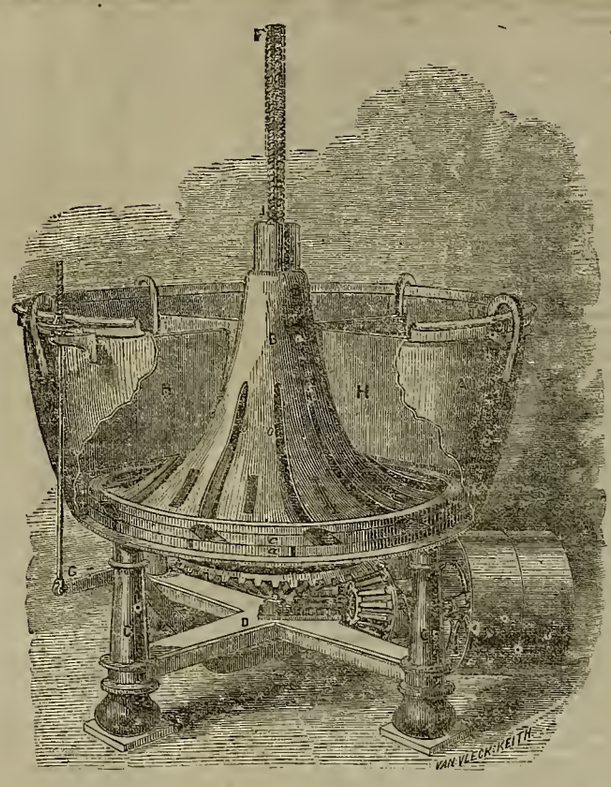
City customers, or persons visiting San Francisco, are invited to call and examine our specimens, when they will be politely informed of our prices by the Proprietors.

E. D. WATERS, JR., } Proprietors. { W. B. EWER,
C. W. M. SMITH, } { A. T. DEWEY,

To Mining Companies.

A GENTLEMAN OF MUCH EXPERIENCE AS A MINing Superintendent, in England, Spain, and on the Pacific coast, and one intimately acquainted with every department of mining, and with nearly every class of mineral, is desirous of securing a position as Superintendent of some mining operation in California or Nevada. The applicant was for four years Superintendent of the New Almaden Quicksilver Mine, in this State. The best of reference given on application at this office.

San Francisco, Oct. 12, 1865 15vt1lf



THE EXCELSIOR

GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Traetory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Traetory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

Union Iron Works and Golden State Iron Works,

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.

EUREKA

PATENT BLASTING POWDER,

Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets. Room No. 9, with San Francisco Chemical Works,

CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2v11qy

WILLIAM PENROSE,

Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,

Is prepared to buy in any quantity

COPPER, SILVER, GOLD, LEAD

AND OTHER VALUABLE ORES;

Also Lead Bars Containing Gold and Silver,

☞ Full value paid on delivery in this City.—☜

Address Lock Box No. 992, P. O., San Francisco. 25v10

Copper, Lead, Gold, Silver,

Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,

Agent for Townshend, Wood & Co., Swansea,

No. 406 California Street, San Francisco. 15v10-3m

MARTIN & CO.,

Office, Stevenson House,

Corner California and Montgomery streets (up stairs).

WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES.

Assaying eight per cent. and upwards of Copper to the

We will make advances upon Ores of Copper. San Francisco, Post Office Box 1259. 22

VALUABLE

PATENT RIGHT

FOR SALE.

The patent right for the United States of a valuable invention can be secured at a bargain by applying at this office. The article is one of general application throughout civilization.

DEWEY & CO., Publishers.

Dissolution of Partnership.

NOTICE IS HEREBY GIVEN, THAT THE PARTNERship heretofore existing between the undersigned, under the name and style of Fisk & Barber, and doing business as Grocers, is this day dissolved by mutual consent. The business will hereafter be conducted by Fisk & Brown, at the old place, 814 Howard street. The business of the old firm will be settled by Fisk & Brown.

J. M. FISK.
CHAS. J. BARBER.

San Francisco, Sept. 30, 1865. 15v11-4t

THE STYLE

—FOR—

Fall and Winter, 1865,

Will be introduced Aug. 26, at

MEUSSDORFFER'S

HAT MANUFACTORIES,

Nos. 635 & 637 Commercial st., San Francisco,

No. 125 J st., bet. Fourth & Fifth, Sacramento.

Corner D and Second Streets, Marysville.12vII

WE ARE NOW OFFERING

OUR IMMENSE STOCK

—OF—

Fine Custom Made Clothing

—AND—

Gents' Furnishing Goods

AT PRICES THAT DEFY COMPETITION.

Our Stock of Clothing Consists of

ALL THE LATEST STYLES

BOTH OF MATERIAL AND FINISH.

A Large Assortment of

Trunks, Valises, Carpet Bags, Blankets, Etc.,

AT EXTREMELY LOW PRICES.

J. R. MEAD & CO.,

8v10 Cor. of Washington and Sansome streets.

SAN FRANCISCO

CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at **TUBBS & CO.'S,**

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14v10

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco March 6, 1865 11v10-tf

CHARLES BERNARD,

MANUFACTURER AND DEALER IN

Family Chartres Coffee,

AND SPICES OF ALL KINDS,

No. 707 Sansome street, cor. Gold, bet. Jackson & Pacific.

First Premium Awarded

BY THE MECHANICS' INSTITUTE,

FOR BEST COFFEE AND SPICES.

The proprietor having introduced steam power in his Manufactory, has now increased facilities to supply the trade and the public in general. All articles from his establishment are guaranteed to be pure and unadulterated. The public are respectfully invited to call and convince themselves. Country orders promptly attended to.

15v11 3m

OIL WELL BORING.

J. SEVENOAKS,

Contractor

For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1229 San Francisco. 2v11

LEHIGH COAL.

200 Tons Large Lump Lehigh Coal

Now on Hand.

I am also in constant receipt of

LEHIGH COAL,

And will be able to supply it always

At the Lowest Market Price.

JAMES R. DOYLE,

20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

ANOTHER CALIFORNIA NATURAL WONDER.—The Auburn *Stars and Stripes* calls the attention of the scientific inquirers to the following natural curiosity, which the editor assures his readers is an actual reality and no hoax:

On the El Dorado side of the Middle Fork of the American river, nearly opposite Forest Hill there is a rift or chasm, of crater-like appearance, in the side of the mountain which towers above that stream. This chasm is about three rods in length, and an average width of fifteen feet. Numerous attempts to fathom it indicate immense depth, many considering it bottomless. Lines of great length have been lowered without reaching the bottom. Large stones have been dropped into the crater, and the noise of their striking from side to side has resounded until too faint for the acutest sense of hearing. Letter envelopes dropped into this chasm will hang suspended as if in a strong upward current, then dart suddenly down, as by the force of a counter current, and after a lapse of several minutes will ascend, several having been recovered, all of which were found to be sooty and begrimed. The counter-currents of air would seem to indicate connection between this and other similar chasms, while the discolored appearance of the paper indicates the vicinity of subterranean fires or gases.

NOVEL COMBAT.—The New Bedford *Standard* says that a three months' Cochin China rooster had a mortal combat with a full grown rat recently. The fight was well contested on both sides, and after a continuance of thirty-five minutes ended in the death of the rat.

COPPER FROM PLUMAS.—The Marysville *Appeal* of the 5th inst., says: "We noticed yesterday, at the steamer landing, fifteen or twenty cakes of copper matte, from Taylorville, Plumas county, for San Francisco."

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

Machinery.

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Fauchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Crocodile Quartz Crusher; his Pulverizer; and his Improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This will can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast, amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. **B. FAUCHERY,** Engineer,

24v9

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSITON THE fire surface of a boiler takes THIRTY PER CENT. of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and fines, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street above First (opposite the Oriental Hotel), San Francisco

23v10

HUNTER'S PREMIUM CONCENTRATOR, AMALGAMATOR AND SEPARATOR,

Awarded a Silver Medal at the late Mechanics' Fair.

HUNTER'S CONCENTRATOR CAN BE SEEN IN OPERation daily at the Novelty Iron Works, Fremont street. Parties wishing to purchase Concentrators will find it to their advantage to examine the above machine before purchasing elsewhere, for the following reasons:

1st. It will work the sands from a 5-stamp battery, and save from 10 to 20 per cent. more sulphurets than any machine built on the Pacific coast.

2d. The Sulphurets are washed clean, containing less than ten per cent. of sand.

3d. The waste free gold and amalgam is amalgamated on the copper plates; no trace of ground mercury and scarcely a trace of metal passes off with the sand.

4th. Its simplicity is a sufficient recommendation for its general use as a Concentrator. The variation of speed in a Quartz Mill does not effect the working of the Machine. The same was demonstrated at the late Mechanics' Fair, when with the greatest IRREGULARITY OF SPEED the best of results were given.

5th. There is no clogging or stopping to clean out the sulphurets and sand; consequently no waste from any inattention on the part of the attendant.

6th. In exhibiting the working of the machine (it is not run empty), all classes of ores and tailings, from 50 pounds and upwards, are concentrated that parties may see fit to test the machine with.

Give it a trial, and satisfaction is guaranteed. All orders and any information required, address,

ANDREW HUNTER,

Novelty Iron Works, Fremont st., San Francisco,

15v11-3m Or to E. T. STEEN, Agent.

Hepburn & Peterson's AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delays, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th. (Illustrated in the Mining and Scientific Press, April 9th, 864.)

HEPBURN & PETERSON.

nov8-3m*

BLAKE'S QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA, WASHOE, ENGLAND, FRANCE,

— AND —

THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,

Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.

4v10

ATTENTION, MINERS!

LINSCOTT'S PATENT CHAMBER DRILL.

Great Improving in Blasting.

W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.

D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ¾ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1¾ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

BAUX & GUIODS Separator & Amalgamator

Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jeffersonian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crail's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

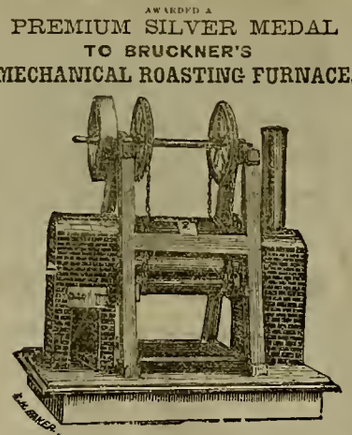
Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Heugh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,

Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8-6df

The Mechanics' Institute AWARDED A PREMIUM SILVER MEDAL TO BRUCKNER'S MECHANICAL ROASTING FURNACE.



Parties wishing to erect such Furnaces, are requested to leave their orders with

T. KALLENBERG,

12v11 416 Market street, San Francisco.

HUNT'S IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person, and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN

HORSE POWER

For Sawing Wood.

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,

No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

HUNT'S PATENT Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,

7v10 28 Second street, San Francisco

DENIS WHELAN, Fashionable Boot Maker

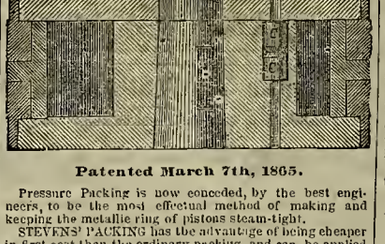
REPAIRING NEATLY DONE, AT SHORT NOTICE.

No. 17 Fourth Street,

Near Market street, San Francisco.

15v10-1m*

Stevens' Pressure Packing.



Patented March 7th, 1865.

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

STEVENS' PACKING has the advantage of being cheaper in first cost than the ordinary packing, and can be applied to old style pistons with very little alteration or detention. In place of testimonials, the Patentee requests of those who are using the old spring packing to inquire of the owners of the various engines which now have this packing in use—some of which have been running from three to twelve months without being opened, or showing any descriptive leak—and act upon their recommendation.

Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Alameda Railroad, or at the VULCAN IRON WORKS, where they can be seen, at any time, in course of construction.

10df **ANDREW STEVENS.**

McCOMB'S CUMULATIVE POWER PRESS AND ARROW TIE.

E. C McCOMB, Agent.

No. 1 Government House, cor. Sansome and Washington sts. 23v10 3m

STOW'S PATENT CHAMBER DRILL.

The greatest Labor-saving Machine ever invented for Quartz Mining. By using this Drill in shafts, tunnels, and all other rock blasting, three-fourths of the labor and over one-half of the powder will be saved. The Drill makes a chamber directly at the bottom of the hole, at any depth you wish, six times the area of the original hole, in all kinds of rock, in less time than a man can drill a 1½ hole two inches deep. Requiring no tamping, it will be impossible to have a premature blast.

AT THE STATE FAIR held in Sacramento, September, 1865, a Committee, after examining both the Lincoln's and Stow's Chamber Drills, reported as follows:

We, the undersigned, Committee on Mining Tools, do award to Henry M. Stow, of San Francisco, the FIRST PREMIUM for the best Chamber Drill for blasting rock, for the following reasons:

1st. For simplicity of construction;
2d. For durability of drill;
3d. For strength of drill.

The above Drills will be sent to any part of the State for $20, with one set of Cutters or Chisels that will chamber from 75 to 150 holes. Extra Chisels furnished at $2 50 per set.

The Drill may be seen at Mr. BUFFINGTON'S Office, No. 7 Government Block, corner Sansome and Washington streets, and at No. 511 Market street.

Drills will be delivered to any part of this State free of expense to the purchaser. Any information desired, or orders for Drills, address

STOW & COLLINS,
San Francisco.

Oil Wells! Oil Wells!!

I received at the last STATE FAIR a special Premium for the best Expanding Drill for boring oil wells. The above Drill will bore the hole from ½ inch to 2 inches larger than the inside of the pipe or tubing of the well, if desired, making the bore perfectly straight and round. The Drill can be attached to and work with any common drill at an expense of from $25 to $50. I will furnish all machinery for boring, or will take contracts for boring wells, and furnish steam engines and all tools required. Address,

HENRY M. STOW,
14v11 San Francisco.

WATER WHEELS!

Equal to the Best Overshot Wheel

POWER PLEDGED

IN EXISTENCE.

LEFFEL'S AMERICAN DOUBLE TURBINE

Is now manufactured by the Vulcan Iron Works Company, in this city, and orders for the same can be filled immediately. We have a large supply of the different sizes, from 10 inches to 30½. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 100 to 300 pounds, will yield from 10 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to

LEFFEL & MYERS,

At Vulcan Iron Works, office 137 and 139 First street, San Francisco. 4v11tf

VARNEY'S PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setters made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setters for themselves, at the **PACIFIC FOUNDRY,**

1v1 San Francisco.

SALMON'S PROPELLOR AMALGAMATOR — AND — Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

9v11 **J. & W. C. SALMON.**

OIL WELL BORERS.

A CONTRACT WILL BE LET TO A RESPONSIBLE party to sink an Oil Well, as deep as may be required, on land belonging to the "Eel River Oil Company," situated in Humboldt county, Cal. For particulars, inquire at the office of the Company, No. 435 Jackson st., up stairs.

12v11-1m E. H. WILSON, Secretary.

MINING AND SCIENTIFIC PRESS

PATENT AGENCY.

For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 4th, 1861, and March 3d, 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be witheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a Caveat is that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues. If the application is rejected we a cause thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, and gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

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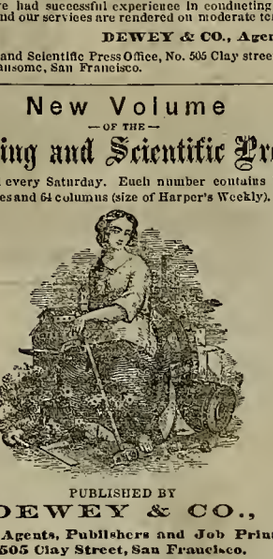

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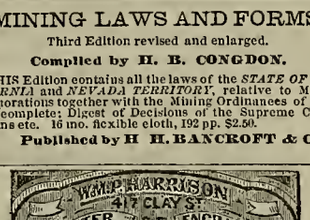

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THE NAPOLEON COPPER MINE.—The Stockton *Independent* says that the Napoleon and the Hughes copper mines have recently been merged into one company, with a capital of $1,200,000, divided into 12,000 shares at $100 each. The California owners have transferred 7,000 shares – a majority interest — to New York capitalists, who agree to furnish for the thorough development of the mine a working capital of not less than $100,000, to be assessed upon the 7,000 shares of the New York interest; the California owners to hold their 5,000 free from assessments. Pending the organization under the new arrangement, work upon the mine has been suspended. The New York parties who are to take hold of the work are men of capital and energy, some of whom have had considerable experience in copper mining. Work upon the mine will shortly be resumed and prosecuted with energy.

AMALGAMATING BY ELECTRICITY.—We would invite the especial attention of our readers to a very full *resume* of the various projects for extracting the precious metals from their ores, by the use of electricity as an assisting agent. Our correspondent, Dr. Laaszweert, has given a full history of all that has been done or is known on this subject, from the time of the first discovery of galvanism to the present day. We have frequently been asked what has become of the electro-process of amalgamation, which we noticed several times during the summer of 1863, as in course of experimental operation in this city. That question is fully answered by our correspondent, as above.

A NATURAL CAVE.—Two weeks since it will be remembered that we published a statement of a large body of water having been struck in the Pike Tunnel, on Union Hill. The Grass Valley *Union*, of a later date, says that after the water had sufficiently escaped to permit of working, the men employed in the mine discovered a large cave, natural in its formation and running back a considerable distance in the tunnel. In fact, so extensive is this cave, that no one has yet been enabled to trace its termination. It is quite a curiosity, and is daily visited by large numbers of novelty-seekers.

EX-PRESIDENT DAY, of Yale College, is the oldest citizen of New Haven. He is in his 93d year, and when he wants to get around town, prefers walking to any other method of locomotion. He is the father of Sherman Day, Mining Engineer of this city.

THE AMADOR LEDGER has entered upon its *eleventh* volume. The *Ledger* is one of our most valuable interior exchanges.

THE NEW METAL—TUNGSTEN OR WOLFRAM.

The existence of this metal has long been known; but so intractible is its nature, and so difficult is it found to isolate it from its ores, that but small quantities have hitherto found their way into commerce. The metal is obtained with comparative facility in the shape of a dense gray powder; but great difficulty has hitherto been encountered in reducing this powder into metallic form, on account of the extreme high degree of heat required to fuse it. No ordinary crucibles or furnaces will stand the heat required to reduce it. It has hitherto been reduced only in very small quantities of a few grains only. A small button of the metal was exhibited as a great curiosity at the International Exhibition of 1862. This button was obtained by subjecting about an ounce of the powder above mentioned, for three hours to the most intense heat which could be obtained by means of a powerful gas furnace. The crucible employed was made of freshly burned lime; no graphite or Hessian crucible being found able to stand the heat required.

It will be observed from an article on page 311 of this issue, that this metal has been found of considerable value in hardening cast-iron, although it does not appear to work well when alloyed with steel. In alloying it with iron, it is introduced into the molten metal in a very fine state of division as a mineral. As a metal its alloy with iron would be impracticable, for reasons already given. It is a white brittle metal, not easily oxydizable, and with the exception of gold and platinum, the heaviest known. Its specific gravity is 18 while gold is 19.36, and that of platinum 21.53. Its great resistance of heat would render it of inestimable value to chemists and metallurgists, if some plan of reducing it by chemical reaction could be devised.

From an article in a late number of the London *Mechanics' Magazine*, we are led to infer that this long-sought for desideratum has at length been discovered. That magazine says: "We learn that a Swedish metallurgist has discovered a method of reducing tungsten (wolfram) by which he obtained it at once in a state of fusion, and that ingots of the pure metal, weighing several pounds each, are now on exhibition at Stockholm. We are informed, also, that the cost of obtaining the metal, by the new method, does not exceed a few shillings per pound." If the metal can be obtained thus cheaply, and with no little difficulty as intimated, the discovery is certainly a very important one.

IT'S AN ILL WIND, ETC.—Should the blockade of the Chilean ports be enforced and continued for any length of time, it will greatly benefit the copper interests of California. Nearly all the foreign ore which reaches Swansea comes from Chile. Seventeen ships recently left three different ports of Chile, in one week, with *nine thousand tons* of ore for the Swansea market. Should the blockade be enforced there will be a strong competition for the California ores, which cannot fail to cause an important advance in prices.

PRESERVING TIMBER FROM DRY ROT.

A correspondent from Mormon Island wishes to know if there is any preparation which can be used to prevent the lower end of the flag-staff, in that town, from being destroyed by the dry rot, which is now threatening its destruction. They have already used some preventative; but the symtoms of decay still continue to increase.

We are not acquainted with the nature of the preventative which has been used, or how it has been applied; but suppose some outward application has been made, and that the bottom of the staff is so fixed that, while the moisture of the earth has been kept from reaching the interior of the timber, that interior has been exposed to the action of the atmosphere. In order to arrest the progress of decay, some fluid preparation must be employed which will penetrate the pores or cells of the wood. We know of nothing better than a strong solution of sulphate of copper. It should be applied by boring a number of holes at intervals into the staff, filling them with the solution and plugging them up tight.

A very good coating for the outside may be made by preparing a varnish as follows: Take ten pounds of pulverized chalk, ten of rosin, one of linseed oil, and boil them together in an iron pot. To this preparation add one pound of a strong solution of sulphate of copper, and apply with a brush, while hot, in the same way as paint. This preparation, which, when dry, becomes as hard as stone, has recently been introduced into Germany with much success, for coating wood above ground. It will answer equally well below ground, as it is quite indestructible and entirely impervious to wet. A piece of wood thoroughly covered with this preparation could never decay from dry rot.

WHAT IS DRY ROT?

Some of our readers may not understand the philosophy of dry rot. It is simply slow combustion; the oxygen of the atmosphere unites slowly with the carbon of the wood, causing an imperfect combustion. A full and complete combustion, attended with appreciable heat and flame would result, if the mass was sufficiently large and compact. This condition is fulfilled when the wood is charred and ground to an impalpable powder, and this powder placed in a mass of say 100 pounds, with its surface freely exposed to the atmosphere. So rapid is the absorption of oxygen by charcoal dust, so placed, that it will take fire in a very few days and burn with great heat.

The solution of sulphate of copper, when applied to the interior as we have suggested, envelopes each particle of carbon in the wood with a thin metallic covering, which effectually prevents its union with the oxygen of the atmosphere, and consequently preserves it from decomposition by that active and destructive agent. This is probably better than kyanising, so much used of late years as a preservative of timber, for railroad sleepers, etc. Wood thus prepared will last longer, under ground or in the water, than iron unprotected with any coating, impervious to wet.

THE ore shipments of the Union mine at Copperopolis, for the week ending November 9th, was 641½ tons.

CALIFORNIA TIN ORE.

Some four or five tons of tin ore arrived in this city a few days since, from the Temescal tin mines in the southwestern corner of San Bernardino County, a few miles east of the Los Angelos County line. This ore has been brought here for the purpose of giving the mine a practical test—to learn the actual value of the ore, and test the capacity of our machinery for crushing and concentrating it. The test has proved eminently successful in every particular.

Two or three well developed leads have been opened, from which some thirty tons of ore have been extracted. Out of this the lot received in this city was selected. It has been crushed by Moore's rotary crusher at the Vulcan Iron Works, and separated from its gangue by Hunter's concentrator. The average of the ore received here is about thirty per cent. of tin, as a red oxyd. This ore, after passing through Hunter's separator, has been raised to grade of seventy per cent., in which condition it will be shipped for being worked.

The average of the ore as it comes from the mine—a four foot vein—is fully fifteen per cent. This ore is very readily assorted into two classes, one of which will represent thirty per cent. and the other ten per cent. From twenty tons of the average ore five tons of thirty per cent. can be readily assorted. It is the intention of the parties who now have the matter in hand to proceed forthwith to the erection of crushing and concentrating machinery, on a large scale, at the mine. All the ore will be crushed as it comes from the vein; as Hunter's machine has fully proven its capacity to separate the ore from its matrix, in a speedy, thorough and economical manner.

The mine is located within thirty-four miles of a good steamboat landing, whither the concentrated ore can be hauled at an expense not to exceed $15 per ton. Every facility for an economical working of the mine exists on the spot; while a good fat beef can be bought for $8, or a sheep for $1, and everything in the way of vegetables and grain at a like low rate. The climate is most delightful; corn can be kept in every stage of growth from the blade to the full ear, at all seasons of the year. We think it is safe to predict that these mines, which have lain so long idle, for want of a proper appreciation of their value, or the lack of enterprise to develop them, will soon be made to add a new and important source of industry and profit to the State. The gentlemen who have the matter in hand are old Californians, who have long been interested in developing the mineral wealth of the State, and who thoroughly understand the business which they have in hand.

WORK OF THE DIAMOND DRILL.—Any person who may be desirous of witnessing the exactitude and precision with which the diamond annular drill can perform its work, can have the opportunity of doing so by examining at this office a core taken by it out of a hard rock. We hope soon to be able to give an illustration of the mode of operating the drill, and of the manner in which the diamonds are secured to the same, all of which is exceedingly simple and easily understood.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

Sodium-Amalgam for the Reduction of Silver Ores.

BY G. RUSTEL.

A few experiments with sodium-amalgam will allow a judgment as to what can be expected from this new agent—new with reference to the amalgamation of silver ores. It is known that sodium vehemently decomposes water; being converted into hydrate of soda by absorbing oxygen, while hydrogen gas escapes. This ardent desire for combination with oxygen, and other bodies, for which it has a greater affinity than for quicksilver, sodium also retains when dissolved in quicksilver—that is, in the state of amalgam. Its use in the decomposition of silver ores is based on the above property. The following experiments will illustrate the action of sodium-amalgam in this process:

EXPERIMENTS.

1. Sodium-amalgam, when placed in an iron vessel which contains water, and stirred with an iron pestle, will be decomposed almost instantly to quicksilver and hydrate of soda, emitting hydrogen gas. The surface of the iron appears amalgamated.

2. Sodium-amalgam will decompose water in a porcelain cup by itself, more or less rapidly according to the temperature of the water. The rapidity of the decomposition highly increases by touching the amalgam with an iron nail or platina wire. The gas bubbles are created, also, on that part of the nail or platina wire which is out of the amalgam.

3. Sodium-amalgam, under water, in a porcelain cup, covers instantly a piece of sulphuret of silver (silver-glance) or native gold with quicksilver; but there is no reaction by absence of water; a slight bubbling on the edge of the sulphuret is perceived from the moisture which the sodium amalgam draws from the air.

4. Sulphuret of silver, sulphuret of lead or copper, placed on sodium-amalgam, under water, in a porcelain cup, will be attacked vigorously. A portion of the sulphur combines with the sodium; another portion escapes as sulphureted hydrogen, while the silver, lead, or copper, amalgamates. The agitation will stop suddenly, as soon as all the sodium is consumed; a new addition of sodium continues the decomposition of the sulphurets, and to complete the decomposition further additions must be made, until, in presence of sodium, only a slight ebulition is perceived.

5. On sulphuret of silver, sulphuret of lead (galena), chloride of silver, tellurid of gold and silver, the sodium-amalgam acts perfectly, amalgamating all the metal contained in those minerals. Ruby silver (dark) yields only 74.5 per cent. of its silver; the balance turns into a dull, black bulky powder of silver and antimony, with 34 per cent. of silver. Brittle silver ore delivers sulphur to the sodium; turns into black bulky powder like that of ruby silver, with 74 per cent. of silver—but does not yield amalgam. Zinc blende, as well as carbonates, is not attacked by sodium-amalgam.

From these experiments may be deduced the following

INFERENCES.

ad. 1. Silver ores cannot be treated in iron pans with sodium amalgam, as shown in experiment No. 1, for the reason that the amalgam is parted by the iron and water in the shortest time, without any effect on the sulphurets; besides, if a large quantity of sodium should be present, the amalgamation of the same with the iron of the stamps and shoes would take place before the sulphurets could be decomposed.

ad. 3. The use of sodium-amalgam is practicable on gold quartz, in arastras or wooden tubs or barrels. The momentary coating of the gold particles with quicksilver is all that is needed to produce a perfect amalgamation. Dry amalgamation is impracticable.

ad. 4. The quantity of sodium in the quicksilver for the purpose of decomposing sulphurets, or other combinations, must be in chemical proportion to the bodies with which the sodium enters into combination. For example: 23 pounds of sodium will consume 16 pounds of sulphur, or 35 5 pounds of chlorine, or 64 pounds of tellurium, etc. Accordingly, one pound of sodium dissolved in quicksilver, cannot decompose more than 4.5 pounds of silver glance, or 7.9 pounds of tellurid of silver and gold (from the Melones mine), and so on.

ad. 2. The quantity of sodium, as stated in *ad.* 4, is not sufficient, on account of the water, which is likewise decomposed by the sodium-amalgam.

ad. 5. The Comstock ore, which contains a large amount of brittle silver ore, cannot be amalgamated by the sodium-amalgam. The ruby silver of Reese River may be more perfectly extracted by way of roasting.

From the above it is evident that sodium-amalgam will never be used for reduction of silver ores, unless it can be manufactured at such a low price as to allow the profitable use of large quantities. It is also an error to suppose that the sodium is a purifying agent for quicksilver. On the contrary, it causes the reduction and amalgamation of oxides of base metals which cover the surface of quicksilver (which could be easily removed by diluted nitric acid), exposing thus a brilliant surface, which appears alive by the agitation produced by the oxidation of sodium, as seen going on upon the surface of the quicksilver. This is erroneously considered a purifying process.

Sodium-amalgam keeps the quicksilver together so that no minute globules are formed; but as soon as the amalgam is changed into hydrate of soda, the quicksilver appears less alive than before the addition of sodium; consequently, no saving of quicksilver can be expected by using sodium-amalgam. One or two pounds of sodium in a ton of quicksilver will doubtless show a very good result if *gold quartz* is treated with it properly. Half an hour will be more than necessary for the conversion of the sodium; consequently, the charged quicksilver can be used only once as sodium-amalgam.

It is of no use to exaggerate the chemical action of a process beyond its natural limits. The same exaggeration took place with "Ayer's desulphurizing process," which is nothing more than a burning of rock with the aid of superheated steam; the result of which is always oxidation. It may offer a great economical advantage in decomposing the chief part of gold-bearing sulphurets; effecting at the same time a brittle condition of the quartz; but silver ore, treated by Ayer's burning method, is actually spoiled for any other mode of extraction except smelting. Whether steam is superheated, or not applied at all, the result will always be oxidation, more or less perfect; but the process is in no way a desirable preparation for amalgamation. The loss of sulphur and partial over-heating, renders such ore unfit for further rational treatment.

[Written for the Mining and Scientific Press.]

The Problem of Gold and Silver Extraction—A General Review—No. XVIII.

BY PROF. L. LANSZWEERT.

REDUCTION OF ORES BY ELECTRICITY.

The extraction of metals from their ores by electricity, first discovered by M. Becquerel, created, at the time of its announcement much interest among savans, and all others interested in the metallurgical treatment of the precious metals and their ores.

The first assays made in the laboratory, demonstrated the fact that minerals could be reduced, *when in certain conditions*, by electricity. The object of M. Becquerel was to extract the metals from their ores (especially silver) without the use of quicksilver. By this process he hoped to be able to avoid the enormous expense attendant upon the unavoidable loss of mercury, by the processes then in use, and which sometimes amounted to double the weight of the silver obtained.

It was through this discovery that M. Becquerel was also, soon after, enabled to announce the further and important process of electrotyping, or the art of depositing, through galvanic agency, metals, such as gold, silver and copper, upon other substances. By this discovery, the previous process of plating and gilding, by the aid of quicksilver amalgam, was accomplished in a more perfect manner than it could be done by the method previously employed.

Many now believe that by submitting silver ores to a current of electricity, the pure metal may be obtained, free from its gangue, and fitted for commercial purposes. The electro-chemical process, as employed by Becquerel, is not, however, so easy and simple as many of the processes now in use. The reduction of the metals from their ores by this process, as has already been intimated, is possible only under certain circumstances, and in certain combinations. A simple battery cannot be made to operate, practically, on large quantities of ores. The process is applicable only to small assays in a laboratory. All efforts to render it of practical value for working ores on a large scale have proven failures. According to M. Becquerel, in his Treatise on Electricity: "In using a single pair, the quantity of zinc is equivalent to the work produced by it. It is the same for the gases. If in place of one pair, a battery of a certain number of pairs are used, the effect is still the same, with the difference that the exterior chemical work of the voltameter is equivalent to the chemical work taken as isolated. Thus a battery of more than 100 elements, if in each element two pounds of zinc is dissolved, or in the whole 200 pounds, there is produced in the voltameter a quantity of gas only equivalent to that produced by *two pounds* of zinc. The decomposition is no greater or less in quantity than with one pair."

This is an established fact—a hundred pairs or more will have no power to decompose or reduce more metal by the use of the battery, than one pair. The only advantage that would result from this increase of power, would be to simply hasten the decomposition; while the amount of work done or ore reduced would be all the time the same.

The direct reduction of ores by electricity was abandoned by its discoverer, for the reason that this obstacle could not be overcome. Notwithstanding these difficulties, M. Becquerel continued his experiments with persevering energy, and finally demonstrated the possibility of reducing *large quantities* of silver ores, without the use of mercury, by a modified process, which he denominated—

AN ELECTRO-CHEMICAL TREATMENT.

This process was based on the solubility of chloride of silver and sulphate of lead in a saturated solution of chloride of sodium, and that of the sulphate of copper in water. This process will not act upon the metals contained in those ores in their metallic or native state. Before these ores are submitted to the above treatment, their metals are subjected to an electro-chemical preparation, which converts the silver into chloride, and the metallic lead and copper into sulphates. Even when this is done, the treatment requires large quantities of liquid, which involves the construction of tubs or vats of very large dimensions; and these must also be constructed double or one within another, as the reduction of the metal by this process must take place in vessels so arranged.

Space will not allow of my giving any detailed description of the establishment which M. Becquerel constructed at Grenelle, near Paris, where he put up his experimental works, and where he treated upwards of twenty tons of silver ore from Mexico, Peru, and various parts of Europe.

The process of M. Becquerel has the simple advantage of the disuse of mercury, while it presents many objections. It might be useful in any locality where salt can be obtained in abundance, and at a very low price, in comparison with that of fuel and mercury. This process is not applicable to ores containing free silver and gold, as all such must be lost in the tailings; because they cannot be reduced to their chlorides. It does not offer any advantage over the amalgamation by quicksilver in the yield of silver. The reduction works must necessarily be large, and the incessant manipulations require a large amount of labor, to say nothing of the capital required.

CALCULATION OF COST OF THIS PROCESS.

M. Becquerel has based his calculations on twenty tons per day. Now, suppose the value of these tons represent $1,000 (no free metal taken into consideration), what will be the quantity of salt necessary to use to dissolve these $1,000? M. Becquerel informs us that the salt must be at its minimum of saturation, marking 25° Beaume, to be capable of dissolving the chloride of silver. A thousand litres (250 gallons) of this water will dissolve, generally, one pound of silver. One pound of silver, valued at twenty dollars, gives for a thousand dollars fifty pounds weight. Thus, the production of fifty pounds of silver will require 50,000 litres of salt water in its maximum of saturation. According to Becquerel, this quantity must be trebled, because there must be so much left: 1st, in the reservoir, which contains the ore; 2d, in those vessels where the electro-chemical decomposition takes place; and 3d, in the solution to be lixivated. This will make a total solution of 150,000 litres, or 37,500 gallons liquid, to be handled daily. What is the quantity of salt necessary, then, to saturate this quantity of water to its minimum, without which the result would be nothing? The table of M. Becquerel gives us the following: "One litre pure water requires 324.87 grammes (about ten ounces) of salt to mark 25° Banme; 150,000 litres will require 48,750 kilogrammes of salt, or 97,460 pounds."

This process very much resembles one of those complicated pieces of machinery, very nice to look at, and which appears entirely inoffensive, but which, when touched by the finger, takes in the hand, the arm, the head, and the entire body.

A SUCCESSFUL SAN FRANCISCO PROCESS.

Although the above process of reducing ores by electricity did not prove so successful in Europe, still Mr. John A. Scott, an assayer and metallurgist, well known in this city, did succeed in reducing ores in San Francisco, by electricity, in a manner eminently practical and successful.

These experiments were carefully examined into by a gentleman extensively engaged in mining operations in Virginia City. The results, under very unfavorable circumstances, were within from twenty-two to eight per cent. of the fire assay, and so well was the gentleman satisfied with the experiment, that he proposed to Mr. Scott that he should go to Washoe and repeat the same on a larger scale, at the Central mill, where room, power, and help was to be furnished him; he (Scott) to furnish the battery and necessary apparatus connected therewith. Mr. Scott, being assisted by certain parties in this city, accordingly went to Washoe in the latter part of 1862, with a battery sufficient to work from five to six tons per day. After much delay, by reason of heavy snows on the mountains, which kept his freight back several months, the apparatus finally reached Virginia City; but no room, power, etc., could be obtained, according to understanding. The Veatch process was then in operation there, and such influences were brought to bear as to prevent any interference with it by the new process of Mr. Scott. *That process of making calomel* on a large scale was, accordingly, continued for the time, until it was found that the demand for the article was quite too limited for such extensive manufacture, when it was finally abandoned.

Some months afterwards a new attempt was made to introduce the process at Chapin's mill, but for want of the important leverage of the almighty dollar, the parties again failed in this second attempt, and so discouraged was Mr. Scott, that I believe no further attempt to introduce this really meritorious and promising process has since been made.

The process of Mr. Scott was well conceived, and he fully understood his subject. His battery was simple and constant in its action; and his calculation of the cost was founded on data that the result he obtained should be equal to that obtainable from one hundred pairs of Smee's battery, or fifty-five pairs of Daniell's, or thirty-four pairs of Grove's—the expenses of working those batteries being based upon a standard of sixty grains of zinc per hour in each cell.

His decomposing troughs were made of wood, about six feet long, four feet deep, and one foot wide; the two interior opposite sides of which were lined with a conductive agent. The bottom contained mercury. The capacity of these troughs were calculated for a ton of ore reduced in impalpable powder, mixed with water, so as to obtain a pulp. The pulp was kept in constant motion, while the current was passing, and at a temperature of about 170 Fah. These troughs were two fold in their construction: First, as decomposing vessels; and second, as amalgamators.

Under these circumstances there was very little doubt, from previous results, that the reduction of a ton of ore could have been accomplished in less than four hours.

It was the intention of the parties interested with Mr. Scott to replace the battery by an electro-magnetic machine, worked by motive-power.

In the fall of 1863, if I recollect aright, a *redivivus* of reducing silver ores by electricity was gotten up at the Empire mill, I believe, at Gold Hill. Complicated apparatus was erected, but, unluckily, the operators proved themselves entirely ignorant of the first laws of electricity, as the apparatus was so arranged that the electric current passed directly through their pans with the speed of lightning! Their pans were not even insulated from the moist earth, and, consequently, no results whatever could be obtained from their electrical apparatus.

The ignorance displayed by this party of the first principles of the element which they were employing, reminds me of an incident in the same connection which came under my own notice, while residing in Virginia. Mr. S. Kean, of Silver City, who had been employed about two years in compounding medicines, thought he could devise some improvement in the employment of quicksilver for amalgamating purposes. Having learned that amalgamators were much troubled with the quicksilver separating into fine globules (floating), he con-

ceived the trouble arose from its too great *activity*, and proposed the introduction into its mass of *opium*, as a sedative, to keep it quiet—"to make it *sleep*," as he expressed it and thus enable it to catch the precious metals.

ANOTHER ELECTRICAL PROCESS.

Another electric amalgamating process has been published as invented by Mr. Tongue, of Castlemaine, of which the following is a description, given by that gentleman: "The quartz, on leaving the stamp boxes, passes down a shoot twenty-four to thirty inches wide, and fixed at an inclination of forty-five degrees, into a trough containing quicksilver, through which a powerful stream of magnetic electricity constantly passes, obtained from fixed magnets and iron armature, worked by motive power. The passage of the quartz through the quicksilver is regulated by a bridge, which is adjusted by screws and under which the quartz is forced by its own pressure in passing from the machine; thus every particle must necessarily be brought in contact with the quicksilver, when the peculiar action of the electricity upon the quicksilver will cause it to take up every particle of gold that comes in contact with it. The process will apply equally well to pulbling, washing, and other machinery employed in the extraction of gold."

[To be Continued.]

[Written for the Mining and Scientific Press.]

Mining in and about San Juan.

MESSRS. EDITORS:—I propose in this letter to give you a few items with regard to the mines in and about San Juan. The first I visited was the Eureka, situated near San Juan. This claim is owned entirely by San Francisco men. They are working some twenty or twenty-five men, and the mine is now paying well. The next was the American company's claim, now under the supervision of Mr. J. S. Crall, a gentleman whose inventive genius has made a good improvement on the Baux & Guiod pan.

Mr. Crall is now engaged in constructing one of these pans, to get a practical demonstration of it. When it is completed, you and the readers of the MINING AND SCIENTIFIC PRESS will hear more about it. The mines situated in the immediate vicinity of Sweetland's are not at present doing much, on account of some of their tunnels not being low enough, and also from the difficulty arising from conflicting interests; but this will soon be remedied, after which these claims will resume work, and continue to take out their usual amount of gold.

The Yuba Tunnel company, on which work has been continued some eight or nine years, expects soon to be taking out gravel. This company have spent fortune upon fortune in running their tunnel, and at present there are only three of the original owners interested. It is to be hoped that they will soon reap a rich reward, which they no doubt will if they are low enough. The next claim that I visited was the Granite Tunnel company, owned principally by Messrs. Cadwallader, Fogarty & Co., who work their claims to better advantage than any other company in this section. Instead of the old-fashioned blocks for flume bottoms, they have got cast-iron railings, which they fasten on top of the wooden slabs. In this fashion they wear much longer than the wooden bottoms, and save more gold, which should be the study of the miners in this section, who have been heretofore rushing away into the rivers both dirt and gold. I am pleased to see that claim owners here are beginning to find that it is to their interest to work ground slower and surer; and steps are now being made to work the sand and rich sulphurets that have been heretofore lost in this section of country. I forgot to mention that the Granite Tunnel company are cleaning up from six to seven thousand dollars every month, and their expense of running is about $2,500 for the same time.

The Mull & Evans claim, situated north of the Granite Tunnel company, employ eighteen men, run some 300 inches water, with a flume 1,000 feet long, and are now engaged in running a deeper tunnel, their former one not being deep enough. This company have spent some sixty or seventy thousand dollars in running tunnels into their claims, and have only now began to receive any benefits from their ground. I trust they will continue to do so, for they, as well as many others in this locality, have had to work for many years to get deep enough to reach their rich dirt. In many of the claims in this vicinity the richest pay dirt is a kind of cement gravel that should be worked on the same principle as quartz rock crushed and worked with a pan—as at least one-half of their gold is contained in *rich sulphurets* and fine float gold, that is carried off by the heavy currents of water.

The Irish-American, the Kennebec, and the San Joaquin, with many others on this ridge, are now paying well. In French Corral district water is scarce at present, but the miners are busy in preparing for the rainy season, when they will reap rich rewards for their labor, as I am informed that almost all the claims here pay well.

Mr. E. White, of French Corral (who invented the best griping irons yet in use), is now engaged in constructing a large iron pipe, to carry water for the Yuba Ditch company a distance of 1,600 feet, across from one mountain side to another. This is the largest pipe but one in the State, being thirty-four inches in diameter. Mr. White is an inventive genius, and has a new kind of paint for iron piping, which he intends to have patented.

There are many other improvements going on in this section of country, which show that there are energetic and persevering miners here, and that they have got the ground to work on for the next twenty years to come. I will try and keep you posted on this part of Nevada county, as it is beginning to create a stir among scientific miners.

TRAVELER.

[Written for the Mining and Scientific Press.]

Letter from Colusi.

MESSRS. EDITORS:—I arrived at this place a few days ago, and traveled over different parts of this county, including a small portion of the oil region. The first oil well I visited is called the "Antelope Valley Petroleum Company," owned by M. S. Whiting, Esq., President of the company, and other active operations are being carried on by that company, who are now down nearly 200 feet. The force engaged consists of eight men, working with a large spring pole, which is worked by the foot, and the boring process is necessarily slow. A new engine has just arrived, and will be immediately put in operation, which will greatly facilitate sinking. In the vicinity of this well, which is located in a ravine, is a small flow of water, which seems to be entirely covered with oil, which you can skim off with the hand. It burns readily by applying a lighted match. Considerable excitement took place here recently, by a report that another company near the Antelope Valley company had struck a flow of oil, and tin cans and barrels were in requisition to save it.

More recently I have learned the fact that a pocket had been struck, from which a flow of several gallons was obtained, when it suddenly ceased. The sample of this oil brought to town will burn freely in a common lamp, and is said to yield ninety per cent. pure oil. This well, which I also visited, is owned by Messrs. Shephardson, Lightner, and others, and they are only down about fifty feet, boring by horse-power, and sinking about four feet per day. Indications of the most flattering character are observable, and on pumping out the contents the oil will readily burn by holding a burning match to it. The same indications of oil as at the Antelope company are here seen, and everything shows the most flattering prospects. After leaving the Shephardson & Lightner well, I next went to the well known as the Louis Lewis, where the spring-pole process of boring is carried on. The rock in this well, at the depth of 140 feet, becomes suddenly very hard, and boring from that to the present depth, 165 feet, has averaged only four or five inches daily. It is confidently believed that in a few feet more this strata will be passed, and a flow of oil obtained.

The distance from the town of Colusi to these wells is some twenty to twenty-five miles, over a beautiful prairie, on which are scattered bands of horses, cattle, and sheep. Many fine ranches are fenced in, and the past season has produced abundant crops of all the cereals and grapes. I had the pleasure, during my sojourn here, of making the acquaintance of Mr. Alfred Mead, who owns a magnificent ranch about two miles above Colusi, on the river, which is in the highest state of cultivation. He has a fine peach and apple orchard and grapery, and his broad fields are dotted with every description of the finest stock, amongst which will be found a flock of the best-blooded Spanish sheep in California. This flock is owned by Messrs. Mead & Roberts, and has taken the premium at the last Marysville Fair, for size and quality of wool. Mr. Mead assures me that many of them will clip fifteen pounds each, and that of the most silky, beautiful wool I have ever seen on this coast.

The town of Colusi, and county generally, seems to be returning rapidly to its usually former prosperity, after suffering from the remarkably dry years of '63 and '64. Large quantities of grain are being stored for sale or shipment in the future. I intend soon to further visit through the more extensive oil region of Bear Valley, and the celebrated mineral springs of that vicinity, from which I shall again write you. L.

Colusi, November 5th, 1865.

Useful Information.

The Philosophy of Sleep.

NUMBER ONE.

Dr. Whewell, in his Bridgewater Treatise, observes, in reference to sleep, "Man in all nations and ages has taken his principal rest once in twenty-four hours, and the regularity of this practice seems most suitable to his health, though the duration of the time allotted to repose is extremly different in different cases. So far as we can judge, this period is of a length beneficial to the human frame independently of the effect of external agents. In the voyages recently made into high northern latitudes, when the sun did not rise for three months, the crews of the ship were made to adhere with the utmost punctuality to the habit of retiring to rest at nine, and rising at a quarter before six; and they enjoyed, under circumstances apprently the most trying, a state of salubrity quite remarkable. This shows that, according to the constitution of such men, the cycle of twenty-four hours is very commodious, though not imposed upon them by external circumstances."—"No one can maintain, with any plausibility, that the period may be lengthened or shortened without limit. We may be tolerably certain that a constantly recurring period of forty-eight hours would be too long for one day of employment and one period of sleep with our present faculties; and all whose minds and bodies are tolerably active will probably agree, that, independently of habit, a perpetual alternation of eight hours up and four in bed would employ the human powers less advantageously than alternations of sixteen and eight."

"The succession of exertion and repose in the muscular system, of excited and dormant sensibility in the nervous, appears to be fundamentally connected with the muscular and nervous powers, whatever the nature of these powers may be. The necessity of these alternations is one of the measures of the intensity of those vital energies; and it would seem that we cannot, without assuming the human powers to be altered, suppose the intervals of tranquility which they require to be much changed."—"The arbitrary quantity, the length of the physiological and of the astronomical fact, is the same. Can this have occurred otherwise than by an intentional adjustment?"

That sleep, the natural period of the alternation of which with a period of exertion, independent of, yet so curiously adjusted to, the length of a diurnal revolution, Dr. Whewell has shown to be an additional proof of the existence of God, is felt by every one to prove His beneficence,—whether in the soothing influence with which it steals over us, lapping the senses and tired thoughts in forgetfulness, or in the renovation and alacrity of spirit with which we rise refreshed from it.

Repose is not less necessary to the animal frame than exercise. The latter uses, the former restores. It is on their alternation and right balance that strength depends. We can give repose to a strained or weary limb by laying it horizontally and without motion, to an aching joint by a posture of ease and stillness, to the stomach by abstinence,—but not by means exactly parallel to these can we give rest to the mind. It is in vain that in complete bodily tranquility we strive to give composure an quiet to our waking thoughts, their play continues to excite, and disturb, and exhaust;—for mental rest, more is wanted,—for the repose of the nervous system, there must be Sleep.

WHAT IS THE CONDITION OF THE MIND DURING SLEEP.

The first question which presents itself, on entering into this inquiry, is, whether the current of ideas is ever entirely suspended: whether that endless flow of changing thought, which characterizes our waking hours, is even in the deepest sleep stagnant and motionless. There are strong reasons for believing that such complete intermission of mental action does not take place.

We breathe, and the effort probably arises from the call of a sensation, which we so relieve.

We compute the flight of time during sleep, and if we have business to transact that much interests our thoughts, we wake at an unusual hour, before the required hour of waking, and out of the seemingly deepest repose. It is not, however, unlikely, that in this instance, where some kind of conscious observation must have been watching, our sleep has really been imperfect. Opposite as are waking and deep sleep, no two phenomena are more wonderfully chained together by links of insensible transition.

Many have thought that dreams belong to this intermediate state. Lord Brougham, who has given the most definite shape to this hypothesis, observes, after enumerating instances of lengthy dreams, the whole of which, however, must have been comprised in an infinitely short space of time, as they originated in the impression that awoke the dreamer, "There seems every reason to conclude that we only dream during the instant of transition into and out of sleep."

The writer is disposed to adopt the opposite opinion, and thinks that in sleep we always dream; though we lose the recollection of those dreams (by far of course the greater number) which are not from their exciting nature more strongly impressed than common on our minds, or which do not occur so near waking as to be associated at no great remoteness with our waking thoughts. Either hypothesis, however, is equally unsusceptible of proof. What appears to me most to merit attention in this subject is the fact of the non-interference of our dreams, whether occasional or constant, with our bodily or with our mental rest and refreshment. This, I think, is explained by, and explains the objects of, the most curious phenomena of dreaming.

[To be Continued.]

THE SIZE OF DROPS—A CAUTION TO DOCTORS. But here comes a very remarkable question—are the drops the same size whether they succeed each other rapidly or slowly? Most of us say, Yes, if all the other conditions remain the same; but our learned experimentalist says No. He arranged his apparatus (which he calls a *Stalagomerer*, or drop measurer,) in such a way that he could make the drops of cocoanut oil fall from the little ivory ball at intervals varying from one-third of a second up to 12 seconds. He finds that the drops are twice as large and twice as heavy in the first instance as in the last—that is, when the drops succeed each other more rapidly, they are individually larger than when they fall more slowly, amounting actually to double when the difference is as great as that above stated. The Lady Bountiful and Mrs. Nurse need not be troubled with a scientific explanation of this fact—how that it depends on the time which the gravitation of the drop has to overcome the adhesion between the oil and ivory ball; but they are very much concerned in knowing that when they administer medicine "as the fore," in so many drops per dose, the quantity will vary according to the interval of time between the drops. If they hurry, by dropping too much they may administer 30 drops to baby instead of 20, and then—we draw a veil over the consequences. Even medical practitioners themselves are cautioned. "A pharmaceutist who administers 100 drops of a liquid at the rate of three drops per second, may give half as much again as one who measures the succession at the rate of one drop in two seconds." Insomuch that we have not only to be on our guard against taking a drop too much, but must also see that our drops are not immoderate in size. Another caution to the dispensers of drops. Look to the size of the neck and lip of the phial containing medicines; if the vessel is thick and rounded at the spot from which the drops are made to fall, rely upon it that the drops themselves will be individually larger than when a thin lipped phial is used. Professor Guthrie has ascertained this, and he shows how it depends on the adhesion of liquids to solids, as well as upon the cohesion among the particles of liquids themselves.—*Chamber's Journal.*

EFFECT OF PETROLEUM ON THE HUMAN SYSTEM.—Landerer relates the case of a man who swallowed a quantity of petroleum; the greater part he vomited again. It caused a strong burning sensation in the tongue and throat, which were reddened and became swollen. The stomach and bowels also became effected, and slight gastro-enteritis ensued. For several days the urine and sweat smelt strongly of the oils, and the odor was especially strong under the arm pits. The patient was very weak for a time, but recovered.—*Chemical Central Blatt.*

PEAL YOUR PEACHES.—The furz or down upon the outside of the peach is poisonous, and should all be rubbed off before eating them; or, what is better, the peach should be peeled. We have seen several persons with a troublesome rash caused by eating peaches with the skins on. Let a person whose arms are not accustomed to exposure roll up his sleeves and work vigorously for half an hour in brushing the furz from peaches, and if his skin is not proof against any ordinary attack, he will learn something of the poisonous nature of this stuff inside of twenty-four hours. The furz of peaches should never be eaten.

PURE AIR.—Just as we would eat only wholesome food, we should at all times breathe nothing but pure air.

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, November 18th, 1865.

The demand for money continues active, and has been growing rather than diminishing for some time past. Heavy offerings have been in the market this week based upon mining and other stock collaterals; and the requirements of the mercantile classes are still upon an extended scale. Funds on deposit have also been drawn down to a lower point than usual. Good business paper, however, meets with ready takers, and there is capital enough at hand for all the desirable securities offering. But money-lenders are exercising great prudence, and continue to call in loans where a change of collaterals is deemed advantageous, in view of contingencies that may possibly arise. The bank rate of discount rules at 1¼@1½ ₱ cent. per month, but chiefly at the latter figure, with a full line. Upon the street borrowers are paying 1½@2½ ₱ cent. per month, according to security or amount wanted, or the necessities of the case.

Receipts of Treasure from the mining districts, during the week, exceeded $900,000, making an aggregate of some $2,100,000 since the 1st instant.

There was no special inquiry for bullion early in the week, but a fair demand has prevailed the past day or two. Gold bars have been ranging at 840@850, with exceptional transactions at higher figures. Silver bars may be quoted at ¼ ₱ cent. premium to 1 ₱ cent. discount for round lots.

The mining share market continuese xceedingly depressed, and a further decline has been established in nearly every stock on the list. Little or no sustaining power is visible in any quarter, and confidence has for the moment been so effectually shaken that few buyers are found courageous enough to enter the market again for a rise. So far as it is possible to obtain trustworthy information respecting the present condition and future prospect of a number of claims, it would seem that prices could not go much lower, and yet the acknowledged merit of some mines exerts but a slight influence upon their market value. In other words, all dealers appear so panic-stricken, and the demoralization is so complete, that no regard is paid to the intrinsic value of any stock. A slight rally in some shares took place at the close.

Gould & Curry, in view of the decline in all shares, has been tolerably well maintained, and 12 feet were sold within a range of $1,075 @900, seller 30, closing at about $925 asked. The seam of quartz cut by the tunnel on the second station (625 feet from the surface), near the west wall, assayed some $59 ₱ ton, and is regarded as a favorable indication. The body of quartz found in the south drift, and alluded to last week by us, contained only traces of pay metal.

Alpha has been more active and 29 feet were sold, declining from $800 to $590, and then selling at $650. There is no material change to note in the condition of this mine, but arrangements will soon be made to more thoroughly testing the value of the lower level.

Yellow Jacket has been very largely dealt in, and 105 feet were sold, declining from $675 to $500, rallying to $525, and changing hands yesterday at $545@$555. The total indebtedness of this company, October 31st, amounted to $290,677.68. Their immediate liabilities are $138,677.68, and $152,000 will mature in April and July, 1866. The receipts of bullion last month amounted to $144,690, and the actual net profit (after a disbursement of $29,000 for what are termed extraordinary expenses), was less than $5,000. An assessment of $100 ₱ foot was levied on the 15th inst.

Savage steadily declined from $780 to $575, then sold at $585@$600, and was dealt in yesterday at $620. Some 60 feet in all changed hands. Work upon the shaft has continued to interfere with active operations, but the necessary repairs are to be completed to-day, and hoisting will at once be resumed upon a more extended scale than formerly. A large quantity of ore has been disclosed recently.

Crown Point fell from $725 to $640, and closed at $650, within which range small sales were made. Belcher steadily declined from $430 to $285, seller 30, rallied to 300, and closed at $290 asked.

Ophir receded from $392 cash, and $400, buyer 30, to $310, then sold at $325@$330, and was held yesterday at $350. The receipts of bullion this month will probably exceed $50,000, chiefly the product of the 5th and 6th stations of the south mine. Ore has been accumulating recently at both mills, and it is estimated that there are now 400 tons of ore, and 1,500 tons tailings, on hand at the old Reduction Works, which establishment has been treating an average of over 20 tons ₱ day since the 3d inst.

Chollar-Potosi rose from $310 to $320, steadily receded to $250, sold on Thursday at $250, and closed yesterday at $255, at which rates nearly 200 feet in all were sold. The Grass Roots station is said to show considerable improvement lately, from which portion of the mine about 30 tons of ore are now daily taken, yielding $37@$38 ₱ ton. In the Bajazette Ground the old stopes are well timbered up, and the drift north is said to continue in splendid ore, disclosing a deposit 25 to 30 feet in width. In the south end of the 485-feet level operations are still suspended, by reason of the influx of water. All the waste in old workings of the Grass Valley station, it is thought, will do to extract pay ore. There is no change to note in the 3d and 4th levels of the Chollar. The new shaft is now down 495 feet. During the week ending Nov. 10th, 475 tons of ore were sent to custom mills, and 524 tons were sold at $8 ₱ ton.

Imperial has been more active than usual, and nearly 1,800 shares changed hands, declining from $156 to $127½, seller 30, rallying to $140, receding to $132, selling on Thursday at $135@$137½, and closing yesterday at $146. There is said to be no material change in the appearance of any portion of this claim.

Hale & Norcross steadily declined from $210 to $145, and sold yesterday at $145. Empire Mill & Mining Company rose to $170, fell to $150, and then sold at $152½ per share.

Overman fell from $63 to $33, and closed at about $34 ₱ share. An assessment of $25 ₱ share was levied on the 15th inst. Confidence declined from $77 to $50 ₱ share, and closes at about $52.

North Beach and Mission Railroad was dealt in at $49@$47 ₱ share; Fireman's Fund Insurance at $130 ₱ share, and Legal Tender Notes at 68½@68¾c.

The aggregate sales of Stocks, since Saturday last inclusive, amounted to $715,524.

Fluctuations in Leading Mining Shares for the past Six Months.

Name of Company.	April 10th.	April 20th.	May 1st.	May 10th.	May 20th	June 1st.	June 10th.	June 20th.	July 1st.	July 10th.	July 20th.	July 30th.	August 10th.	August 20th.	Sept. 1st.	Sept. 10th.	Sept. 20th.	Oct. 1st.
Gould & Curry.....per ft.	2,015	1,975	1,800	1,480	1,660	1,625	1,625	1,645	1,750	1,750	1,730	1,500	1,500	1,475	1,135	1,300	1,240	1,250
Ophir.....	500	560	500	490	550	485	480	500	495	486	530	425	400	390	280	385	415	340
Savage.....	2,025	2,020	1,600	1,375	1,300	1,190	1,150	1,425	1,375	1,400	1,310	1,175	1,220	1,300	1,300	1,225	1,215	1,225
Potosi.....	915	870	750	425	337	202	312	467	332	350	395	480	465	460	440	420	410	472
Chollar.....	942	830	680	425	375	215	317	473	345	370	410	500	490	501	475	455	4.0	500
Hale & Norcross.....	625	600	450	400	455	440	400	650	560	555	570	625	520	510	480	520	550	750
Sierra.....	....	30	28	....	20	18	15	18	....	....	....	....	....	....	....	....	....	....
Daney.....	15	....	20	....	22	15	15	15	14	....	14	....	60	70	43	40	40	35
Wide West.....	17	16	10	9	7	5	4	3	7	8	6	....	....	....	....	....	....	16
Burning Moscow.....	38	50	47	41	45	40	46	57	34	20	25	29	25	34	23	20	5	....
Pride of the West.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bullion.....	135	151	150	155	152	135	130	165	149	175	180	175	157	175	160	....	125	126
Real del Monte.....	14	....	....	....	....	12	10	....	....	....	....	....	....	....	....	....	....	....
El Dorado.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Overman.....	325	300	215	240	180	115	100	120	180	342	305	200	241	213	190	135	170	175
Sierra Nevada.....	26	22	16	17	14	13	12	14	15	10	14	25	20	18	19	22	21	17
Yellow Jacket.....	2,500	2,400	2,070	1,515	1,550	1,400	1,320	1,350	1,090	1,015	1,105	1,220	1,350	1,355	1,420	1,400	1,405	1,345
White & Murphy.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sides.....	....	....	....	....	....	....	....	....	....	75	60	....	....	....	....	....	....	....
Uncle Sam.....	320	285	250	245	200	115	100	155	135	345	307	190	240	215	193	185	....	....
Baltic.....	15	....	....	....	....	....	....	....	....	20	16	....	....	....	....	....	....	....
North American.....	34	....	30	....	25	30	23	25	28	35	42	35	30	29	24	16	....	....
Baltimore American.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Melones.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Antelope.....	23	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Napoleon.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sacramento.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Utah.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lady Bryan.....	....	....	....	....	....	....	....	....	....	6	6	....	6	3	..	....	....	....
Imperial.....	213	205	235	232	235	159	175	217	226	245	218	227	230	255	252	65	221	232
Crown Point.....	1,360	1,170	1,000	1,000	885	725	780	750	765	800	910	905	990	1,250	1,120	1,115	1,150	1,130
Belcher.....	1,800	1,620	1,210	1,200	1,105	925	620	695	780	775	890	805	860	835	875	900	910	875
Alpha.....	....	....	....	....	....	....	....	....	1,450	1,400	1,470	....	1,425	1,500	1,925	1,950	2,100	2,200

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, November 11.

72 shs Ophir at 392½@388 per foot.
36 shs Ophir at 400 per foot, b 30.
40 shs Daney at 14 per foot, s 3.
24 shs Alpha, O. H., at 800 per foot.
31 shs Chollar-Potosi at 310@320 per share.
5 shs Chollar-Potosi at 320 per foot, b 3.
12 shs Chollar-Potosi at 319@315 per ft, s 3.
14 shs Hale & Norcross at 210@215 per foot.
12 shs Crown Point at 725@710 per foot.
2 shs Yellow Jacket at 675 per foot.
1 sh Yellow Jacket at 675 per foot, s 3.
25 shs Overman at 62½@65 per share, b 30.
5 shs Overman at 62½ per share, b 10.
10 shs Overman at 60 per foot, s 30.
90 shs Imperial at 156@149 per share.
20 shs Imperial at 154@149 per share, b 3,
15 shs Imperial at 149 per share, s 3.
5 shs Imperial at 149 per share, s 5.
15 shs Confidence at 77@75 per share.
1 sh Empire M & M Co, 162 per sh, s 3.
21 shs Empire M & M Co. at 170@169.
5 shs N B & Mission R R at 49 per cent, s 3.
Amount of sales.....$ 63,210 00

Monday, November 13.

1 sh Savage at 780 per foot.
1 sh Savage at 780 per foot, s 3.
3 shs Savage at 800 per foot, b 30.
1 sh Savage at 770 per foot, s 10.
24 shs Ophir at 390 per share.
12 shs Ophir at 387½ per foot.
5 shs Chollar-Potosi at 310 per foot, b 5.
5 shs Chollar-Potosi at 309 per foot, r w.
3 shs Chollar-Potosi at 308 per foot.
5 shs Chollar-Potosi at 315 per foot, b 25
3 shs Chollar-Potosi at 306 per foot.
12 shs Chollar-Potosi at 310 per foot.
1 sh Yellow Jacket at 660 per foot, b 6,
1 sh Yellow Jacket at 650 per foot, s 3,
1 sh Yellow Jacket at 640 per foot, s 3.
1 sh Yellow Jacket at 635 per foot, r w.
6 shs Yellow Jacket at 630 per foot, r w.
2 shs Yellow Jacket at 630 per foot.
1 sh Belcher at 420 per foot.
1 sh Belcher at 430 per foot.
1 sh Imperial at 151 per share.
31 shs Imperial at 149 per share.
42 shs Imperial at 148 per share.
25 shs Imperial at 147 per share, s 30.
10 shs Imperial at 148 per share, r w.
3 shs Imperial at 147¾ per share.
15 shs Imperial at 148 per share, b 3.
5 shs Imperial at 151 per share, b 30.
7 shs Imperial at 147 per share.
10 shs Imperial at 145 per share, s 30.
10 shs Imperial at 150 per share, b 30.
5 shs Imperial at 149 per share, b 30.
5 shs Imperial at 147 per share, b 5.
5 shs Imperial at 148 per share, s 3.
10 shs Bullion at 55 per share.
20 shs Bullion at 52½ per share.
8 shs Overman at 55 per share, s 3.
10 shs Overman at 55 per foot.
15 shs Overman at 54 per share, s 30.
5 shs Overman at 55 per foot, s 5.
10 shs Overman at 57½ per share, b 30.
7 shs Confidence at 75 per share.
30 shs N B & Mission R R Co, at 47 per sh.
1 sh Cal Steam Nav Co at 74 per cent.
20 shs State Telegraph at 30 per share.
100 ihs Firemans' Ins Co, 130 per cent.
$ 500 Legal Tender Notes at 69 per cent.

AFTERNOON SESSION.

1 sh Savage at 750 per foot, s 15.
1 sh Savage at 750 per foot, s 30.
1 sh Savage at 750 per foot, s 3.
2 shs Savage at 740 per foot, s 3.
1 sh Savage at 735 per foot.
1 sh Savage at 725 per foot.
3 shs Savage at 730 per foot, r w.
2 shs Yellow Jacket at 620 per share.
1 sh Yellow Jacket at 605 per foot, r w.
2 shs Yellow Jacket at 610 per foot.
1 sh Yellow Jacket at 605 per foot, s 3.
3 shs Yellow Jacket at 605 per foot.
2 shs Yellow Jacket at 600 per foot, s 30.
shs Hale & Norcross at 199 per foot.
2 shs Hale & Norcross at 195 per foot.
2 shs Hale & Norcross at 192½ per foot.
4 shs Gould & Curry at 1075 per foot, r w.
20 shs Gould & Curry at 1050 per foot, r w.
3 shs Belcher at 420 per foot, s 3.
9 shs Belcher at 420 per foot.
8 shs Alpha, O. H., at 809 per foot.
4 shs Alpha, O. H., at 800 per foot, s 30.
1 sh Chollar-Potosi at 309 per foot, r w.
2 shs Chollar-Potosi at 309 per foot.
60 shs Ophir at 385 per foot, s 60.
26 shs Imperial at 149 per share.
20 shs Imperial at 150 per share.
19 shs Imperial at 149 per share, s 30.
12 shs Imperial at 148 per share.
9 shs Imperial at 148½ per share.
20 shs Imperial at 147 per share, s 30.
5 shs Imperial at 148 per share, s 3.
10 shs Imperial at 148 per share, r w.
1 sh Imperial at 147¼ per share.
5 shs Imperial at 147 per share, s 10.
5 shs Imperial at 147 per share, s 15.
5 shs Empire M & M Co. at 167½ per share.
10 shs Overman at 55 per foot.
2 shs Cal Steam Nav Co at 74 per cent.
Amount of sales.....$138,694

Tuesday, November 14.

1 sh Yellow Jacket at 580 per foot.
2 shs Yellow Jacket at 600 per foot.
2 shs Yellow Jacket at 565 per sh, r w.
1 shs Yellow Jacket at 562½ per foot.
3 shs Yellow Jacket at 560 per share, r w.
1 sh Yellow Jacket at 550 per foot, s 30.
2 shs Yellow Jacket at 545 per foot, s 30.
2 shs Yellow Jacket at 550 per foot.
2 shs Yellow Jacket at 565 per foot, b 30.
1 sh Yellow Jacket at 550 per foot.
3 shs Yellow Jacket at 555 per foot, b 30.
1 sh Yellow Jacket at 550 per foot, b 30.
1 shs Yellow Jacket at 540 per foot, r w.
1 sh Yellow Jacket at 530 per foot, s 10.
1 sh Yellow Jacket at 540 per foot, b 6.
1 sh Yellow Jacket at 540 per feol, r w.
1 sh Yellow Jacket at 540 per share, s 3.
4 shs Yellow Jacket at 545 per foot.
1 sh Yellow Jacket at 540 per foot, s 10.
1 sh Yellow Jacket at 560 per foot.
2 shs Halc & Norcross at 190 per foot.
2 shs Halc & Norcross at 200 per foot, b 30.
2 shs Halc & Norcross at 185 per foot.
8 shs Alpha at 810@705 per foot.
4 shs Alpha, O. H., at 800 per foot.
4 shs Alpha, O. H., at 785 per feet, r w,
3 shs Savage at 730 per foot.
6 shs Belcher at 405 per foot.
9 shs Belcher at 400 per foot, s 5.
8 shs Gould & Curry at 1050 per foot.
5 shs Chollar-Potosi at 306 per foot, r w.
1 sh Chollar-Potosi at 306 per foot.
4 shs Chollar-Potosi at 302½ per foot, s 3.
3 shs Chollar-Potosi at 300 per foot, s 3.
2 shs Chollar-Potosi at 298 per foot.
1 sh Chollar Potosi at 296 per foot.
1 sh Chollar-Potosi at 290 per foot, s 3.
20 shs Daney at 14 per foot, r w.
2 shs Imperial at 149 per share.
6 shs Imperial at 148 per share.
5 shs Imperial at 1c5½ per share.
10 shs Imperial at 148 per share, r w.
5 shs Imperial at 148 per share, b 3.
15 shs Imperial at 147 per share, r w.
5 shs Imperial at 147 per share, b 3.
10 shs Imperial at 149 per share, b 30.
10 shs Imperial at 146 per share, s 3.
7 shs Imperial at 146 per share.
15 shs Imperial at 145 per share, r w.
10 shs Imperial at 144 per share, s 3.
10 shs Imperial at 144½ per share, r w.
5 shs Imperial at 145½ per share.
20 shs Imperial at 145 per share, s 3.
6 shs Overman at 54 per foot.
5 shs Overman at 53 per foot.
1 sh Overman at 52½ per foot.
6 shs Overman at 52 per foot.
5 shs Overman at 50 per share, s 30.
15 sds Overman at 52 per share, r w.
16 shs Confidence at 70 per share.
5 shs Confidence at 72¼ per share.
6 shs Bullion at 52 per share.
25 shs Bullion at 50 per share.
10 shs Bullion at 50 per share, s 10.
5 shs Bullion at 50 per share, b 30.
5 shs Empire M & M Co at 162½ per share.
5 shs Empire M & M Co. at 164 p. sh, s 3.

AFTERNOON SESSION.

1 sh Savage at 700 per foot, s 3.
3 shs Savage at 690@675 per foot.
2 shs Yellow Jacket at 625 per foot.
2 shs Yellow Jacket at 520 per share, s 3.
3 shs Yellow Jacket at 510@520 per ft, s 30.
2 shs Yellow Jacket at 540 per foot.
3 shs Yellow Jacket at 530 per foot, s 3.
1 sh Yellow Jacket at 550 per foot, b 30.
2 shs Yellow Jacket at 525 per foot, s 30.
1 sh Yellow Jacket at 540 per foot, b 30.
2 shs Yellow Jacket at 535 per foot, s 3.
2 shs Yellow Jacket at 530 per foot, s 10.
1 shs Yellow Jacket at 545 per share, b 30.
1 sh Alpha, O. H., at 775 per foot, r w.
6 shs Belcher at 375 per foot, s 30.
20 shs Imperial at 144 per share.
10 shs Imperial at 143 per share.
10 shs Imperial at 142½@142 per share.
10 shs Imperial at 141@140 per share.
5 shs Imperial at 140 per share, s 10.
50 shs Imperial at 140@138 per share.
20 shs Imperial at 136@134 per share.
100 shs Imperial at 130@129 per share, s 30.
5 shs Imperial at 127½ per share, s 30.
13 shs Overman at 44 per foot.
15 shs Overman at 45@54¾ per share.
10 shs Overman at 47½@48 per foot, b 20.
50 shs Overman at 46@44 per foot, s 3.
20 shs Exchequer at 10 per share.
4 shs Exchequer, at 6 per share
12 shs Empire M & M Co. at 162½ per share.
2 shs Empire M & M Co. at 164 per share.
5 shs Empire M & M Co. at 165 per sh, r w.
5 shs Bullion at 45 per share.
10 shs Bullion at 43 per share, r w.
5 shs Bullion at 42½ per share
150 shs Fireman's Fund at 130 per share.
Amount of sales.....$147,558 00

Wednesday, November 15.

2 shs Savage at 650 per foot, r w.
1 sh Savage at 640 per foot.
1 sh Savage at 629 per foot.
2 shs Savage at 630 per foot, r w.
3 shs Savage at 625 per foot.
1 sh Savage at 630 per foot, r w.
2 shs Yellow Jacket at 520 per foot.
3 shs Yellow Jacket at 511 per foot.
8 shs Yellow Jacket at 525 per foot.
2 shs Yellow Jacket at 522 per foot, s 3.
1 sh Yellow Jacket at 520 per foot, s 3.

1 sh Challar Potosi at 232½ per foot.
5 shs Challar-Potosi at 240 per foot.
2 shs Challar-Potosi at 287 per foot, b 30.
2 shs Challar-Potosi at 245 per foot.
5 shs Challar-Potosi at 250 per foot.
5 shs Challar-Potosi at 255 per foot, b 30.
5 shs Challar Potosi at 260 per foot, b 30.
8 shs Gould & Curry a. 290 per foot, b 30.
9 shs Overman at 34 per foot, b 30.
7 shs Overman at 37½@38 per foot
4 shs Overman at 37½ per share, s 30.
2 shs Overman at 38 per share.
4 shs Imperial at 131 per share.
5 shs Imperial at 134 per share.
5 shs Imperial at 140 per share.
1 shs Imperial at 143 per share.
4 shs Imperial at 147 per share, b 30.
5 shs Imperial at 133 per share, b 3
9 shs Imperial at 131@134 per share b 3.
9 shs Imperial at 140 per share.
45 shs Imperial at 136 per share.
5 shs Imperial at 138 per share, s 30.
6 shs Imperial at 141 per share, s 30
9 shs Imperial at 140 per share, b 30.
5 shs Imperial at 136 per share, b 30.
5 shs Imperial at 133 per share, b 3
9 shs Imperial at 135@139 per share, b 30.
5 shs Imperial at 133 per share.
2 shs Imperial at 135½ per share
4 shs Exchequer at 8 per share s 3.
35 shs Exchequer at 9 per share.
1 sh Bullion at 45 per share.
1 sh Bullion at 49 per share
5 shs Bullion at 48 per share, b 30.
2 shs Bullion at 35@39 per share.
20 shs Bullion at 32¾@34½ per share.
20 shs Wide West at 1 per share
1 sh Confidence at 82½ per share
1 sh Confidence at 84 per share.
2 shs Confidence at 81 per share.
8 shs Confidence at 80 per share.
$ 1,000 Legal Tender Notes at 69 per cent.

AFTERNOON SESSION.

12 shs Ophir at 375 per foot.
4 shs Crown Point at 650 per foot.
4 shs Crown Point at 650 per foot, s 3.
4 shs Crown Point at 640 per foot.
1 sh Savage at 590 per foot, s 3.7
1 sh Savage at 541 per foot, s 3.
1 sh Savage at 540 per foot.
1 sh Savage at 915 per foot, b 5.
1 sh Savage at 540 per foot, s 3
1 sh Yellow Jacket at 500 per foot, s 30.
2 shs Yellow Jacket at 515 per foot.
3 shs Yellow Jacket at 515 per foot, s 3.
4 shs Hale & Norcross at 165 per foot.
6 shs Challar Potosi at 225 per foot.
7 shs Challar-Potosi at 230 per foot.
10 shs Challar-Potosi at 240 per foot, b 30.
5 shs Challar-Potosi at 250 per foot, s 10.
20 shs Imperial at 135 per share, s 10.
5 shs Imperial at 131 per share.
25 shs Imperial at 131½ per share.
90 shs Imperial at 131@132 per share, s 30.
5 shs Imperial at 134½ per share, s 3.
10 shs Imperial at 132 per share, s 20.
20 shs Imperial at 132 per share.
22 shs Imperial at 134 per share.
25 shs Imperial at 132@132½ per share, s 10.
5 shs Imperial at 132½ per share.
5 shs Imperial at 133 per share.
5 shs Imperial at 134 per share, s 10.
5 shs Imperial at 133½ per share, s 5.
5 shs Imperial at 135 per share, s 3.
5 shs Overman at 39 per share.
6 shs Confidence at 55 per share.
Amount of sales.....$131,983 00

Thursday, November 16.

10 shs Hale & Norcross at 150 per foot, b 6.
2 shs Hale & Norcross at 140 per foot.
2 shs Yellow Jacket at 530 per foot.
1 shs Yellow Jacket at 515 per foot.
1 sh Yellow Jacket at 510 per foot.
1 sh Yellow Jacket at 525 per foot, r w.
1 sh Savage at 575 per foot, s 3
2 shs Savage at 575 per foot.
2 shs Savage at 590 per foot, b 10.
1 sh Savage at 590 per foot.
1 sh Savage at 580 per foot.
1 sh Savage at 585 per foot.
1 sh Savage at 670 per foot, b 10.
12 shs Ophir at 350 per foot.
12 shs Ophir at 340 per foot.
12 shs Ophir at 335 per foot.
6 shs Ophir at 310 per foot.
50 shs Ophir at 325 per foot, b 5.
6 shs Belcher at 300 per foot, s 30.
3 shs Belcher at 305 per foot, s 30.
3 shs Belcher at 290 per foot, s 30.
4 shs Gould & Curry at 350 per foot, s 20.
10 shs Overman at 38@37 per foot, s 3.
25 shs Overman at 38 per foot.
5 shs Overman at 38 per foot, r w.
11 shs Overman at 38 per foot, b 5.
5 shs Overman at 37½ per foot, r w.
10 shs Overman at 37 per foot, b 5.
2 shs Overman at 37 per foot.
10 shs Imperial at 125 per share.
5 shs Imperial at 131 per share, s 30.
15 shs Imperial at 132 per share, s 30.
10 shs Imperial at 133 per share, s 15.
5 shs Imperial at 137 per share, b 30.
70 shs Imperial at 135 per share.
5 shs Imperial at 135 per share, b 5.
5 shs Imperial at 135 per share, b 30.
11 shs Imperial at 131@131½ per share.
10 shs Imperial at 134 per share, s 10.
6 shs Imperial at 138 per share, b 30.
5 shs Imperial at 134 per share.
13 shs Imperial at 134½ per share.
20 shs Exchequer at 8 per share.
10 shs Exchequer at 7¾ per share.
10 shs Golden Rule at 9 per share.
1 shs Confidence at 55 per share.
3 shs Bullion at 32½ per share.
27 shs Bullion at 34 per share.
15 shs Empire M & M Co. at 160 per sh. b 20.
3 shs Empire M & M Co. at 159 per share.
10 shs Empire M & M Co. at 150 per sh, s 3.

AFTERNOON SESSION.

1 sh Yellow Jacket at 520 per foot.
2 shs Yellow Jacket at 525 per share.
6 shs Belcher at 300 per foot.
6 shs Gould & Curry at 350 per foot, s 30.
3 shs Savage at 660 per foot, b 10.
6 sh Savage at 670 per foot, s 3.
4 shs Alpha, G H, at 650 per foot.
4 shs Alpha, G H, at 645 per foot.
8 shs Alpha, G. H., at 640 per foot.
10 shs Imperial at 145 per share.
10 shs Imperial at 145 per share, s 3
5 shs Imperial at 136 per share.
10 shs Imperial at 137 per share.
40 shs Imperial at 137 per share, b 3.
5 shs Imperial at 136½ per share
20 shs Imperial at 137½ per share, b 3.
10 shs Overman at 40 per share, s 30.
4 shs Overman at 33 per foot.
25 shs Exchequer at 8 per share, b 3.
10 shs Exchequer at 8 per share.
Amount of sales.....$124,620 00

Friday, November 17.

3 shs Savage at 630 per foot.
16 shs Alpha, G. H., at 630@600 per foot.
12 shs Alpha G. H., at 600 per foot, s 10.
65 shs Imperial at 139@142 per share.
20 shs Imperial at 138@137 per share, s 30.
35 shs Imperial at 139@138 per share.
20 shs Imperial at 142@145 per share.
35 shs Imperial at 141@145 per share.
14 shs Challar-Potosi at 255@235 per foot.
5 shs Challar-Potosi at 260 per foot, b 30.
8 shs Yellow Jacket at 530@545 per foot.
26 shs Overman at 33 per share.
10 shs Exchequer at 8¼ per share.
6 shs Belcher at 295@290 per foot.
45 shs Bullion at 31@32 per share
16 shs Confidence at 57@50 per share.
27 shs Golden Rule at 9 per share.
$10,000 Legal Tender Notes at 68¾ p ct, s 30.

AFTERNOON SESSION.

46 shs Overman at 38@40 per share, b 30.
20 shs Overman at 34 per share, s 35.
2 shs Savage at 630 per foot.
4 shs Gould & Curry at 9 0 per foot.
70 shs Imperial at 142@145 per share.
5 shs Imperial at 146 per share.
5 shs Imperial at 145 per share, s 30.
12 shs Yellow Jacket at 548@555 per foot.
20 shs Alpha, G H, at 630@650 per foot.
25 shs N. American, Ex Sum, at 10 per sh.
6 shs Challar-Potosi at 255 per foot.
Amount of sales.....$104,430 00

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment, Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY AND'G DELINQ'T LIST.	DAY OF SALE.
Astor, Storey co , Nev.,	$1 50	Nov 11	Nov 27*
Arizona Copper, Arizona,	25c	Nov 25	Dec 8
Atlantic and Pacific		Special Meeting,	Dec 11
Alhambra, Lyon co., Nev.,	$1 50	Dec 9	Dec 22
Boston, El Dorado co.,	50c	Nov 7	Nov 21
Bullion, Marin co.,	50c	Nov 4	Nov 20*
Butte, Humboldt co.,	$1 50	Nov 15	Nov 27
Bunker Hill, El Dorado co.,	$1.50	Dec 1	Dec 15
Big Canon		Meeting,	Nov 22
Comet, Petroleum, Humboldt co,	30c	Nov 18	Dec 4*
Chloride Ledge, Calaveras co.,	$1	Nov 18	Dec 2*
Cosala, Sinaloa, Mex.,	$1	Nov 17	Nov 30
Camarco, Lander co , Nev.,	$5	Nov 25	Dec 9*
Chihuicua, Sonora, Mex.,	$5	Dec 2	Dec 16*
Caledonia Tunnel, Gold Hill, Nev.,	$2	Dec 11	Dec 21
California Coal		Meeting,	Nov 24
Dancy, Lyon co., Nev.,	$1.50	Nov 6	Nov 25
Evoca Cons., Del Norte co ,	50c	Nov 4	Nov 20*
El Tesoro, La Paz, Lower California,	$1	Nov 16	Nov 28
Emelia Guerrero, Mex.,	25c	Nov 25	Dec 9*
Eagle, Amador co.,	75c	Nov 25	Dec 14*
Exchequer, Storey co., Nev.,	$2	Nov 21	Dec 9
El Portento, Mex	65c	Nov 18	Dec 2
Florida, Reese River, Nev.	$10	Oct 18	Nov 24
Franco Americana, San Antonio, L. C.,	25c	Nov 21	Dec 4
George Washington, Alpine co.,	$1	Dec 9	Dec 26*
Golden Rule, Dividend		Payable	Oct 20
Gold Canon Cons., Storey co., Nev.,	55c	Nov 6	Nov 25
Gold Hill Tunnelling, Storey co , Nev.,	75c	Dec 5	Dec 23
Guasaparis, Chihuahua, Mex.,	$10	Dec 7	Dec 23
Goodwin, Lander co., Nev.,	$2	Dec 9	Dec 26*
Honest Miner, Lander co.,	50c	Oct 28	Nov 13*
Hanscom, Copper, Del Norte co ,	15c	Nov 11	Nov 27*
Hale & Norcross, Storey co , Nev.,	$25	Nov 27	Dec 11
Hornet, Lander co., Nev.,	50c	Oct 21	Nov 21*
Hibernia, Arizona,	10c	Nov 25	Dec 8
Imperial		Dividend	Payable Nov 10
Jewett, Storey co.,	$1	Nov 11	Nov 25*
Jefferson, Yuba co		Dividend	$15
Knox, Alpine co.,	40c	Nov 11	Nov 25*
Keokuk, Contra Costa co.,	10c	Dec 16	Dec 30
La Victoria, Mariposa co.,	$3	Nev 4	Nov 20
Leon, Esmeralda co., Nov.,	35c	Nov 17	Dec 18
Lady Bell C M Co.		Adjourned Annual Meeting,	Nov 23
La Favorita, Sonora, Mex.,	50c	Nov 25	Dec 9*
La Fernamlez, Sonora, Mex.,	$5	Nov 23	Dec 8
Libertad, Sonora, Mex.,	$5	Nov 21	Dec 6
Melones and Stanislaus, Calaveras co.,	$2 50	Nov. 7	Nov 20
Maria, Chihuahua, Mex.,	$1	Nov 18	Dec 2*
Mount Davidson, Storey co., Nev	$1	Dec 2	Dec 20*
Moss Ledge,	$5	Nov 30	Dec 15
Nuestra Senora de Guadalupe, Jallsco,	$6	Dec 8	Dec 18
Nuestra Senora de Guadalupe, Durango,	$1	Dec 4	Jan 20
Oroville, Butte co.,	$1	Nov 18	Dec 2*
Open Sesame		Annual Meeting,	Nov 18
Overman, Storey co., Nev.,	$25	Dec 19	Jan 3
Potosi, Storey co., Nev.,	$9.50	Nov 6	Nov 20
Porter, Butte co., Cal.,	$1,	Nov 18	Nov 30
Peninsula, San Antonio District, L. Cal.,	$10,	Nov 17	Nov 30
Porter, Butte co		Annual Meeting,	Nov 27
Refugio, Chihuahua, Mex.,	$2 50	Nov 11	Nov 23
Salambo, Tuolumne co.,	75c	Nov 6	Nov 25
Sierra Valley, Plumas co ,	$1	Nov 13	Nov 25
Salambo, Tuolumne co.,	75c	Nev 6	Nov 25
Santa Cruz, San Antonio, Lower Cal.,	$3	Nov 17	Nov 29
Savage, Storey co., Nev.,	$100	Nov 28	Dec 13
Santa Cruz, Petroleum,	40c	Nov 25	Dec 14*
Segregated Belcher, Gold Hill,	$4	Nov 25	Dec 9*
San Francisco "Moss Ledge,"	$5	Nov 30	Dec 15
Simpson, Alpine co.,	25c	Dec 2	Dec 16*
Spring Hill, Nevada co., Cal.,	$10	Dec 1	Dec 12
Sierra Silver, Douglas co., Nev		Annual Meeting,	Dec 11
Sierra, Douglas co., Nev.,	$3	Nov. 25,	Dec 9
Table Mountain, Calaveras co.,	50c	Dec 2	Dec 18*
Trimfo, San Antonio, L. C.	$1	Dec 1	Dec 14
United States, Storey co., Nev.,	50c	Dec 16	Dec 30*
Wide West, Esmeralda co.,	$5	Nov 18	Dec 4*
White & Murphy, Storey co., Nev.,	$5.50.	Dec 4	Dec 18
WidejWest, Alpine co ,	$1	Dec 16	Dec 30*
Yankee Blade, Reese River.	Adjour'd Ann'l Meeting,	Nov 23	
Yellow Jacket, Storey co., Nev ,	$100	Dec 15	Jan 15
Yuba, Brown's Valley,	$2.50	Dec 16	Dec 30*
Zenith, Calaveras co., Cal.,	$3.25	Dec 9	Dec 23*

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
California Consol M and M Co	Oct 17	1 00
Caledonia T & M Co	Nov 10	2 00
Exchequer	Oct 14	2 00
Globe	Oct 18	1 00
Gold Hill Tun & M Co	Nov 3	75
Hale & Norcross	Oct 27	25 00
Imperial	Oct 28	5 1
Kennedy	Oct 19	12 50
Mount Davidson	Nov 7	1 00
North Comstock	Nov 2	25
Peck	Oct 17	1 00
Savage	Oct 28	100 00
Segregated Belcher	Oct 23	4 00
Schuller	Nov 11	1 00
Union (Pearlin)	Oct 12	25
Utah	Oct 31	6 01
White & Murphy	Nov 3	5 50
Yellow Jacket	Nov 14	100 00

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale.
American Flat Nevada	Nov 11	Virginia
Astor	Nov 27	San Francisco.
Bullion	Nov 16	Virginia
Bishop	Dec 5	Gold Hill
De Droot	Oct 31	Virginia
Globe	Nov 16	Virginia
Gobi Canon	Nov 25	San Francisco.
Jewett	Nov 25	San Francisco.
Keystone	Nov 21	Gold Hill
Kossuth	Dec 2	Virginia
Mount Moriah & Lincoln	Nov 28	Gold Hill
North American	Nov 10	Virginia
Nevada	Dec 8	Virginia
Uriens Flat	Nov 24	Virginia
Potosi	Nov 20	San Francisco.
Schiller	Nov 21	Virginia
Sand Springs, Salt	Nov 30	Virginia

San Francisco Stock and Exchange Board.

SAN FRANCISCO, November 18th, 1865.

	Bid.	Askcd.
United States 7 3 10ths	$ —	$ 14
Gov. Legal Tender Notes	68½	68¾
State Bonds, 7 ₱ cent	86¾	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	70	..
San Francisco Bonds, 1858, 6 ₱ cent	65	..
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	00	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	77½
Butte County Bonds, 10 ₱ cent	..	80
California Navigation Co	70	71
State Telegraph Stock	31	32
San Francisco Gas Co	99	..
Sacramento Gas Co	..	75
Spring Valley Water Co	53	54
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	45	47
Central Railroad Co	..	..
ch and Mission	45	46
North Bea MINING STOCKS.		
Ophir	$ 320	$ 350
Gould & Curry	950	1000
Empire M. & M. Co	....	....
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	630	640
Challe-Potosi	254	256
Hale & Norcross	145	155
White & Murphy	....	....
Sierra Nevada	5	8
Dancy	..	10
Burning Moscow	..	..
Lady Bryan	....	....
Sacramento & Meredith	....	....
Burnside	....	....
Iowa	....	....
El Dorado	....	....
North American	....	....
Baltimore American	....	....
Yellow Jacket	545	550
Overman	33	34
Cedar Hill Tunnel	....	....
Wide West	1	2
Crown Point	640	650
Antelope	....	....
Emeralda	1	5
Ætna	....	....
Rival del Monte	..	15
Silver Hill	....	....
Utah	....	....
Justis	..	....
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co.	....	....
Melones and Stanislaus	....	....
Sheba	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H	32	33
Enckeye	....	....
Dick Sides	....	....
Imperial	141	142
Alpha	590	600
Bajazett	....	....

San Francisco Metal Market.

PRICES FOR INVOICES.

Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.

SAN FRANCISCO, Nov. 18 h 1865.

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1½c ₱ lb; sheet, polished, 3c ₱ lb. common, 1½@ 1¾c ₱ lb; Plate 1½c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2½c ₱ lb.

Scotch and English Pig ₱ ton	40 @—
American Pig ₱ ton	38 @40
Refined Bar, bad assortment, ₱ lb	2½@—
Refined Bar, good assortment, ₱ lb	3½@—
Boiler No. 1 to 4	4 @ 4½
Plate No. 5 to 9	4½@—
Sheet, No. 10 to 13	4 @—
Sheet No. 14 to 20	5 @—
Sheet No. 24 to 27	5½@—
COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb	
Sheathing ₱ lb	30 @32
Sheathing, Old	25 @35
Sheathing, Yell	30 @32
Sheathing, Old Yell	12 @12
Bolts	— @—
Composition Nails	30 @32
TIN PLATES.—Duty: 2½c ₱ lb.	
Plates, Charcoal, IX ₱ box	10 @12
Plates, I C Charcoal	9 @10½
Rooling Plates	9 @ 10
Banca Tin Slabs, ₱ lb	41 @42½
STEEL.—English Cast Steel, ₱ lb	12½@16
QUICK-SILVER.—Per lb	— @05
For export	55 @—
ZINC.—Sheets ₱ lb	9½@10
LEAD.—Pig ₱ lb	7 @ 8
Sheet	10 @12
Pipe	10 @12
Bar	9½@10

THE total number of Jews throughout the world is estimated at 3,163,700; and it is said that this number has not materially varied from the time of King David to the present day.

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	80@ 87
do pickled ₱ lb	65@ 75
do Oregon	50@ 60
do New York, ₱ lb	40@ 50
Cheese, ₱ lb	22@ 35
Honey, ₱ lb	30@ 40
Eggs, ₱ doz	60 70
Lard, ₱ lb	33@
Hams and Bacon, ₱ lb	28@ 30
Cranberries, ₱ gal	75@ 1 00
Potatoes, sweet, ₱ lb	2@ 5
do Irish, ₱ lb	1@ 2½
Tomatoes, ₱ lb	5@ 8
Onions, ₱ lb	6@ —
Apples, No. 1, ₱ lb	4@ 10
Pears, table ₱ lb	5@ 10
Plums, dried, ₱ lb	15@ 25
Peaches, dried, ₱ lb	15@ 25
Grapes, ₱ lb	5@ 15
Oranges, ₱ doz	75@ 1 00
Lemons, ₱ doz	1 50@ 2 00
Chickens, apiece	62@ 1 00

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 50 @ 7 00
Do Superfine	@ 0 75
Corn Meal, ₱ 100 lb	@ 4 00
Wheat, ₱ 100 lb	1 90 @ 2 05
Oats, choice, ₱ 100 lb	1 45 @ 1 50
Barley, ₱ 100 lb	1 00 @ 1 05
Beans, ₱ 100 lb	3 25 @ 3 40
Potatoes, ₱ 100 lb	1 00 @ 1 12
Hay, ₱ ton	10 00 @15 00
Live Oak Wood, ₱ cord	8 00 @10 00
Beef, on foot, ₱ lb	6@ 7
Beef, extra, dressed, ₱ lb	12½@ 15
Sheep, on foot	1 00 @ 2 00
Hogs, on foot, ₱ lb	10 @ 12
Hogs, dressed, ₱ lb	15 @ 16

Groceries, Etc.

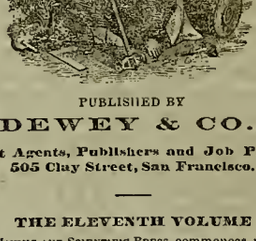
Sugar, crushed, ₱ lb	16½@ 17
Do China	10 @ 12½
Coffee, Costa Rica, ₱ lb	27½ @ 30
Do Rio	27½ @
Tea, Japan, ₱ lb	85 @ 95
Do Green	70 @ 90
Hawaiian Rice, ₱ lb	10 @ 11
China do	8 @ 10
Coal Oil, ₱ gal	1 00 @ 1 25
Candles, ₱ lb	24 @ 25
Ranch Butter, ₱ lb	55 @ 70
Isthmus do	40 @ 42
Cheese, California, ₱ lb	20 @ 26
Eggs, ₱ doz	60 @ 65
Lard, ₱ lb	20 @ —
Ham and Bacon, ₱ lb	24 @ —
Shoulders	20 @ 22
Soap—Pale & C. O	15 @
Castile	15 @ —

New Volume

— OF THE —

Mining and Scientific Press

Issued every Saturday. Each number contains 16 pages and 64 columns (size of Harper's Weekly).



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THE ELEVENTH VOLUME

Of the MINING AND SCIENTIFIC PRESS commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this Journal may be anticipated by its numerous and rapidly increasing readers.

We shall continue to devote a large space in our columns to the various and best methods of treating ores and saving gold and other precious metals in every form, furnishing valuable hints to millmen, prospectors, oil-workers and miners generally, not to be found in any other publication.

New machinery, latest inventions and discoveries, and all matters pertaining to the mechanical, manufacturing and industrial resources of the Pacific States, will receive careful attention.

Stock market reports will be published as received from the official records. Our carefully compiled "Mining Shareholders' Directory" will prove a faithful monitor to parties holding stock, and a desirable record for reference to brokers.

Friends pleased with our efforts in the publication of the Press can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and News dealers, acting as our agents, will receive liberal commissions.

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DEWEY & CO., Publishers.

C. W. M. SMITH ..... W. B. EWER ..... A. T. DEWEY

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

Mining Summary.

CALIFORNIA.

The location of valuable quartz leads seems to be more actively and successfully prosecuted at this time than at any previous period in the history of quartz mining, giving most unmistakable indications of general prosperity in mining operations next year. The late rains and present meteorological indications are such as to give assurances of a fair amount of the aqueous element, without which no business on the Pacific coast can thrive. The interior journals, generally, take a cheerful view of things, and confidently predict "a better time coming." Another circumstance favorable to our future prosperity, is found in the fact that capitalists, both at home and abroad, are beginning to evince more confidence in our mines than they have heretofore entertained. The constant and increasing yield of bullion, notwithstanding the depreciation in mining stocks, appears to have opened the eyes of capitalists abroad, and enabled them to look at things in their true light. They no longer regard the fluctuations, from week to week, in the insignificant list of mines which appear in our daily stock reports, as any index of the general condition of the mining interest on the Pacific coast. They have also learned to place a just estimate upon the swindling transactions which are reported from time to time, and to confine such acts, where they belong, to the narrow limit of a few mines which are manipulated by the bulls and bears of Montgomery street. The great mass of the valuable mining interests of this State and Nevada are quite beyond the control or even reach of such men. They are owned and conducted by solid men of means and energy, who are moving steadily along with their works of development, or quietly getting in their heavy dividends, which are paid and pocketed, without any flourish in the daily papers of "Dividends Declared," which announcements are but too often made up of moneys first drawn from the shareholders' pockets, or declared over the heads of creditors of the companies, to whom the mine is mortgaged for nearly or quite its full value.

Yuba.—A correspondent of the Marysville *Appeal* gives the following *resume* of the condition of mining interests in Brown's Valley, which we condense: Mr. George Leland, the new superintendent of the Yuba Mining company, has left for San Francisco, for the purpose of attending to the shipment of the machinery—for an engine and boiler of 20-horse power, pump, hoisting apparatus, etc., in fact all that is necessary to work the claim. Until the erection of a mill of their own, they intend having their quartz crushed in Pennsylvania. The Danneboge, at a depth of about 500 feet, and at a distance of about 120 feet from their incline, have finally reached their former pay-streak, and are now doing well. The Jefferson, at the bottom of the shaft, is about fifteen feet in thickness, and the quartz richer than ever; their next dividend will tell the tale! The Sweet Vengeance, for want of good pay rock, have discontinued work for the present. The company is free from debts, and will soon be able to make another start; they cannot fail to succeed as well as the Danneboge. The Pennsylvania will be able to redeem its ancient reputation as soon as the shareholders come forward and pay up their assessments. The Pacific and Daniel Webster, it is suggested, should again resume active operations, as, in the light of recent developments, they must, undoubtedly, have a valuable ledge.

Trinity.—Mining is brisk in Trinity. At Hay Fork, Mr. Francis took $700 out of one of his claims in a single week. Miners are gathering on the lower river, says the *Journal*, there being some forty or fifty in the vicinity of Cedar Flat already. The population of the county is increasing, and the signs generally cheering.

Butte.—The Butte *Record* is informed that Frank Starr & Co., have discovered a new rich quartz lead near the Forks of Butte. From twenty-four pounds of the quartz taken from this lead, and pulverized in a hand-mortar, the sum of $28 in gold weight was obtained. The parties are now sinking a shaft, with the most flattering prospects.

Nevada.—The *Transcript* says that the quartz miners continue prospecting in every part of the county, from the foot-hills to the summit of the Sierras. Every day new locations are made or new leads opened, while many which were located a few months since are turning out rock which pays from twenty to a hundred dollars to the ton.

Several splendid looking ledges, indicating a new quartz country, have recently been located about two miles beyond Black's bridge, on the ridge between Montezuma Hill and Cherokee. The ledges are numerous, and vary in width from eighteen inches to fifteen feet. The rock is filled with rich looking sulphurets, and a good deal of free gold is found in it. Little prospecting has been done in the vicinity.

The *Union* says that mining operations in the neighborhood of Allison Ranch, Lone Jack, etc., are being pushed ahead with much energy and most flattering results.

It is reported that Jules Friant (the Emperor) has purchased back a one-tenth interest in the mine he recently sold to parties in this city for $450,000. He has been induced to do so from subsequent, unexpected and extraordinary developments below the second level. At this point the ledge is from six to eight feet thick, and there is no reason to doubt that the same uniform richness prevails throughout the whole vein at the depth reached by the shaft. The fact is now established that this new, or three-hundred feet level, is equal in value to the two previously opened. This development more than doubles the value of the mine, and fully justifies the re-purchase by the original owner at an advance.

The Copper Interests of this county, also, still continue to attract a fair show of interest. The *Transcript* says that a San Francisco company is working a claim near McCourtney's Crossing, on Bear river, with excellent prospects. Excellent copper ore has also been found in the vicinity of Bowman's Ranch, in this county. Several claims have been located, in which citizens of Nevada are interested. Excellent copper ore has also been found in the Emerald Isle claim, near Placerville, just on the line in Yuba county.

Sierra.—The *Messenger*, speaking of the ground at Howland Flat, says that the Union claim has now the best tunnel in the county, there being a double-track for nearly 3,000 feet on the main, which is nine feet wide and well timbered. The prospects of this company are considered much improved. The Pittsburg are reported in good pay, and the Hawkeye prospects are improving. Shares are reported as having lately changed hands at figures rating the full share at about $8,000. The Monumental, above and adjoining the Pittsburg, has a tunnel nearly completed, and are in soft rock. They will soon be taking out pay gravel. The Down East and Mountaineer are paying heavy right along, and are rated as No. 1 claims. The French company are down with their shaft and taking out pay-dirt, with flattering prospects. Sugar Loaf is doing well, as usual. John Buckley has sold out his interest in the tailing claims of Fant & Co., to Williams & Cox, for $6,000. The Sierra Tunnel Company, at Cold Cañon, is reported as paying extravagantly. For the last week's run they cleaned up over one hundred ounces.

At St. Mary's district a number of new quartz locations have recently been made. The district appears to be full of mineral, but not yet prospected to any considerable extent.

A correspondent of the *Messenger*, from the southern portion of the county, speaks well of the mines in that section. The works of the People's Gold and Silver Mining company, of New York, are highly spoken of as well managed, and as a profitable investment. There are scores of mines there not yet prospected, but which are, undoubtedly, rich in the precious metal.

Placer.—A shaft has been sunk eighteen feet on the Conrad claim, about one mile west of Auburn, where they have a ledge twenty-eight inches thick, from which a large number of very valuable specimens have been taken. Nearly all the rock shows gold. In addition to the above, says the *Stars and Stripes*, many others who have been prospecting during the past week, have stumbled on rich croppings. There is scarcely a ledge in this vicinity from which more or less rock containing particles of gold, visible to the naked eye, have not been obtained.

Calaveras.—The Copperopolis *Courier* speaks of several new discoveries in that vicinity the previous week.

The *Chronicle* says that Mr. Depew & Co. have completed their 10-stamp mill, on Short Hill. It has been constructed for crushing the dirt taken out of their tunnel. The *Chronicle* thinks that in one year West Point will be proven to be one of the richest mining towns in the State; $48,000 have been taken from Smidth's mill within the past four months, and the mill is but a very small affair at that. The last clean-up was $2,340, from eighteen tons of rock—$130 per ton. Another lot of rock is now being put through this mill, which, it is expected, will yield $250 to the ton.

Dr. Holden, of Stockton, is about to put up machinery upon the Connor claim, near San Andreas.

Tuolumne.—The mountains east of Sonora, says the *Herald*, are filled with prospecting parties, and every day we hear of rich lodes being discovered. Capitalists are rushing from all parts of the States here, buying claims that are already opened, and prospecting and opening new ones. They all say that ere long Tuolumne will be one of the richest counties in the State.

The proprietor of the Mount Maria lode, who has been engaged for the past three years in sinking shafts, running tunnels, etc., has at last struck some very rich rock. A New York company have made him a good offer for the claim.

Amador.—The mineral resources and the wealth of this county, says the *Dispatch*, are now being developed very rapidly. We hear almost every day of some one discovering a rich quartz lode. In fact, there are so many "leads and rumors of leads," that we find it almost an impossibility to keep run of them, and even if we could, our paper is not large enough to notice them separately.

Los Angeles.—The Los Angeles *News* says that the owners of the Mayflower gold quartz ledge have struck the main lode, and that a large quantity of pay rock is in sight. The *News* understands that the company intend erecting a mill at or near their ledge for working the rock; they have plenty of water and an abundance of fuel upon the ground. The mine is within a distance of twenty-eight miles of Los Angeles. One of the richest copper lodes—the Tejunga—in the State lies in the same vicinity, and is yet undeveloped.

NEVADA.

The leading silver mines of Washoe are yielding largely, yet the stock market becomes more and more demoralized. Bad and corrupt management is what's the matter.

The Gold Hill *News* says that the richest quartz mines yet discovered on this coast, eclipsing in richness even the famous Enterprise lead, are said to have been just discovered in the hills above Emerald Bay, near the Placerville route, between Yank's and Strawberry Valley. This discovery has created a great excitement throughout the country around, and people are leaving their regular avocations and rushing in from all sides to get a location in the new mines.

A new and important enterprise, of a somewhat novel character has recently been started in Dayton. Messrs. J. D. Andrews & Co., have purchased a large space of ground, covering an area of about forty lots, on which a reservoir will be constructed for the collection of tailings from mills up the cañon. The reservoir, when completed, will be of about two million tons capacity. These tailings are to be worked by a process that the proprietors feel confident will be successful.

The Chollar-Potosi have nearly completed their new works. When these works are entirely completed their heavy expenses will be greatly lessened, and shareholders may look out for dividends. Their shaft is now down 500 feet, and they have commenced a drift westward to strike the ledge. The company is now running out all their rock through the Potosi tunnel. The *Union* judges from the number of teams seen at the dump that they must be driving a paying business.

A rich strike was made a few days since, in the vicinity of the Manhattan mill, near Washoe City, where a man having nothing else to do commenced prospecting beneath the ashes of a camp fire. His labors were rewarded by finding a large lot of amalgam, some ten inches below the ashes, worth about $700. An employee in some neighboring mill had probably been stealing small lots of amalgam, as opportunity presented, and had *cached* at the spot where found. A similar deposit was once before found near the same place.

HUMBOLDT.

The *Register* says the Eastern companies still continue to make investments in the Humboldt mines, all of which are making immediate preparations to proceed with an active development of the same. When surface preparations are properly made before winter sets in, the snow and cold will be no hindrance to underground operations. The *Register* has heard of another large purchase in Sierra District by a New York company. A part of the money has come, and another portion is on the way. Agents of Eastern capitalists arrive almost daily, to arrange particulars of purchase and make preparations for work. All seem well pleased, except those parties who were bilked on the Pinewood district.

It is to be hoped Eastern companies will be a benefit to the State. They will act upon a different policy from that pursued by the San Francisco capitalists—their energies will be exercised mainly in working the mines, and not in working the stock market. Many of these Eastern companies are composed of steady-going men, who have made fortunes in mercantile, manufacturing and commercial pursuits; and now invest some of the surplus revenue which trade thrift has brought them in mining enterprise—a no less legitimate enterprise than the ordinary trades, when properly pursued; but involving larger risks, with the chances of correspondingly larger gains. These men have no taste for stock jobbing. They prefer to work the mines, and await at home the arrival of their gains in honest silver bricks. Having them in such esteem, we welcome to our bleak mountains these old gentlemen, says the *Register*, with the greenbacks.

The Esex mine, on the Neptune series, is going ahead. The new owners in the East are sending out funds, and the work of development continues. A ledge of 2½ feet wide is found at a depth of 12 feet in the new shaft, and the ore remarkably rich. If it proves a permanent ledge, and anything like what this leads the owners to hope, it will be a great mine.

A quartz mill is wanted in Star Cañon. A correspondent of the *Register* says: There have been several attempts made to build mills, and three have been put up in the canon—costing in the aggregate nearly $100,000; and yet we are without a mill. The De Soto has just suspended operations, for the simple reason that they can get no ore crushed. The ore they have been taking out would pay all expenses, and a handsome dividend besides; and to run the mine all winter without getting any of their rock crushed, would take at least three assessments. The trustees, therefore, ordered the work stopped. This is one version of the reason of the stoppage; there may be other reasons. The mine to-day is looking better than ever, and just a few days before the work was stopped they struck a vast deposit of very rich mineral. All the other claims are pushing ahead lively.

ESMERALDA.

The Esmeralda *Union* says that the Empire and Bodie mill cleaned up, a few days since, over $8,000 from a crushing of one hundred tons of ore from the Homestake claim, an average of over $80 per ton. The *Union* is informed that they have between two and three hundred tons more out.

A bar worth $4,000 arrived a few days since from Kearsarge district. The mines down that way are beginning to "shell out." The Silver Peak and Red Mountain mines are also producing well, and are beginning to ship considerable quantities of bullion.

OREGON.

The Jacksonville *Sentinel* says that active efforts are being made to give a thorough and practical examination of the gold and silver bearing quartz veins about Jacksonville, with improved machinery. That paper thinks that favorable results will be reached, for certainly no placer mines in the country have been richer than those on Jackson creek.

IDAHO.

There appears to be much reason to believe there is some foundation for the extraordinary reports which recently reached here of some extraordinary silver developments about one mile south of Oro Fino, and near to the Empire ledge, belonging to Col. Fogus and others. The new discovery has been named the Poor Man's ledge. The ledge is said to be about seven feet wide, can be traced for a long distance on the surface, and carries a streak through the centre about eighteen inches wide, so well filled with native silver that it can be cut with a knife. A large amount of rock is said to have been taken out. Five tons have been taken to the Sinker mill, which is said to have yielded *one ton of bullion?* It is also said that rock to the value of $600,000 has already been taken out and that there is a plenty more left equally rich. We shall look with much interest for further developments.

An Association of Mining Superintendents.—The mining superintendents of the mines on the Comstock lode in Virginia City and Gold Hill have held a preliminary meeting for the purpose of organizing themselves into an "Association of Superintendents" for the furtherance of the development of the mines of Storey county. At the first meeting, which was very generally attended, Mr. Wm. Blanding was elected temporary President, and N. A. H. Ball, temporary Secretary.

On motion, a committee of seven were appointed to draft Constitution and By-Laws, to be presented to an adjourned meeting. Messrs. P. S. Buckminster, Chas. Foreman, Harvey Beckwith, John B. Winters, Wm. Blanding, L. Janin and John Nugent were appointed such committee.

On motion, a committee of two were appointed to select a proper room for the use of the association and report place and terms at next meeting. Messrs. Peachy and Graves were appointed.

Meeting adjourned to meet on call of Committee on Constitution and By-Laws.

Mechanical.

MOLECULAR CHANGES IN METALS.

In our last issue we gave some important facts with regard to the molecular changes effected in metals, generally, by heating, rolling, hammering and annealing. We now propose to note a few facts with especial reference to the alloy known as brass.

The term brass is applied to any yellow alloy of copper, with zinc, tin, lead, antimony, etc.

Brass intended for smelting should be entirely free from antimony, as the slightest presence of that metal renders it brittle, and liable to crack.

Brass intended for turning, in addition to copper and zinc, should also contain from 2 to 2.15 per cent. of lead in its composition. The addition of the lead causes the turnings to leave the tool easily. It should be introduced into the crucible which contains the melted brass after it has been taken from the furnace.

Brass for engraving upon, as for door-plates, etc., should contain a very little tin, as that metal gives a crispness to brass, and causes it to break up short under the graving-tool. Brass for braziers should not contain less than 56½ per cent. of copper.

Molecular Changes.—Brass wire becomes very brittle, if subjected to vibration in a state of tension, and sometimes when subjected to long continued tension alone. If subjected to great tension and rapid vibration, it will sometimes become almost as britile as glass, in the course of a few weeks. Brass chains and rods used for supporting objects, such as chandeliers, etc., have often been known to break without an assignable cause other than a loss of their tenacity. In such cases, on examinatioa, the brass will be found to be very brittle, much more so than when first put in place. This tendency to loss of tenacity is also common, but in a much less degree, to most or all of the metals and their alloys.

Brass, when used as bolts, sometimes undergoes a very singular molecular change, known as exfoliation—the metal, on the exterior, becoming more or less separated into concentric layers or laminæ, leaving a solid, cylindrical nucleus within.

Brass wire, when composed of 75 per cent. of copper, and 25 of zinc, if wire-drawn, and taken directly from the drum on which it has been wound in that process, and immediately subjected to the process of annealing, will be almost as brittle as glass; but if, previous to annealing, the coil, as taken from the drum, is subjected to strong and repeated concussion, it will retain its primitive condition of tenacity. This concussion may be applied by taking hold of one part of the coil with the hands, and raising and striking the other heavily upon a beuch or other firm object. This, perhaps, is one of the most siagular molecular chauges of metal known.

"*Spuey Metal.*"—Brass castings, after being turned off smoothly, and subsequeutly lacquered, are often noticed to be soon after covered with little green spots of efflorescence. This is produced in the following manner: In castiug, minute, microscopical cavities will sometimes occur immediately below the surface, and which may not be entirely removed by the turning tool. These cavities are probably caused by minute bubbles of air. In dipping the casting into the acid, previous to the lacquering, it is easy to conceive that a small amount of the acid may penetrate these cavities in such a manner as not to be removed by the subsequent washing in water; so that nitrates of zinc and copper would thus be formed, by the acid contiauing there. aad soon after the lacquering process, their efflorescence would break through the film of lacquer, and show itself on the surface, thus producing what is techuically known as "spuey metal."

Steam Jets.—The use of steam jets to increase fire or furnace drafts is nothing new. Their use can be traced as far back as the time of the ancient Romaas, who are known to have employed jets of steam, both directly into the fire, and also above the fire into the flue or chimney, to increase the draught. Very likely the first application of the priuciple might have been employed even auterior to the Romans.

Tungsten (Wolfram) Alloys with Iron. Some six or eight years ago much interest was excited with regard to the use of tungsten or wolfrum as an alloy for hardening and improving steel. It was first introduced by an Austrian Steel Manufacturing Company. It was thought by some that it would revolutionize the working of cast steel. Mr. Mushet, of England, obtained nine patents in one year for forming steel alloys with this metal; and the opinion was quite prevaleut that the new steel alloy would last three or four times as long as the best English steel. Now no well informed persons believes in tungsten steel. But there is ground for the idea that the addition of tungsten to cast-iron improves the quality of that metal. Some very careful experiments have quite recently been made at the French marine foundry at Nevers, which appear to show pretty conclusively that cast-iron has its tenacity increased about one-sixth by the addition of about two per cent. of tungsten. The tungsten is added to the iron in its mineralized condition of wolfram; metallic tungsten not being available. For some facts with regard to the mineral "wolfram," see article in another column.

The Stones of the Temple.—The marble stones which composed Solomon's Temple were said to be forty cubics long, twelve thick and eight high. Supposing a cubic to be eighteen inches, which is the lowest estimate, they would be sixty feet long, eighteen feet thick, and twelve feet high. And supposing a cubic foot of marble to weigh 2,707 ounces one of these stones weighed 2,752,038 pounds and 12 ounces. And supposing one man to be able to raise 200 pounds, it will require 13,760 men to raise one of these, and also a little boy who could raise 38 pounds 12 ounces. And suppose one man to require a square yard to stand upon, it would require two acres, three rods, eleven perches and twelve yards for them to stand upon while raising it, besides a place for the little boy to stand. What floats must have been necessary to carry them across the sea to Joppa! And what kind of teams, as well as wagons, do you suppose they had to carry these stones from Joppa to Jerusalem? And what skill was necessary to square and dress these immense stones, so that when they were brought together they fitted so exactly that they had the appearance of being solid stone.

New Style of Drill.—Mr. Jennings, Superintendent of the Jenning's Petroleum Company, who came up on the steamer, brought with him some additional machinery for that company's well, among which, we noticed a new style drill, recently patented, if we remember correctly by C. A. Fargo. It represents two ordinary drills so placed as to present the faces crossing each other at right angles—or, in other words, to a main drill are secured two pieces or flanges laterally by a screw or screws passing edgewise eutirely through these pieces and through the main drill, making in reality two drills, arranged as before stated. This is made to couple with a sand-pump of heavy, strong material, from which projects near the bottom a steel jaw intended to do the work of the reamer. When the drill and pump descend, this jaw, resting firmly in its position does its work, and when they are raised it yields to the pressure of the walls of the well, and offers no impediment to that operation; during the process of drilling and reaming, the sand-pump is performing its allotted duty by cleaning up after the drill and the reamer. When this is full the whole is raised and the pump relieved of its load by means of a "door" opening just above the valve. It remains to be proved with what efficiency this will perform the work for which it is iatended.—*Humboldt Times.*

Atmospheric Pressure as a Source of Mechanical Powers.—The *Journal of the Franklin Institute* has a series of articles under this title, supposed to have been written by Mr. Ewbaak, formerly Commissioner of Patents, advocating the combination of a high-pressure engine with a very low pressure engine. the same steam to go through both engines. It is also proposed to drain the condenser by a pipe descending thirty-six feet below the bottom of the condenser, and dipping into a vessel, so that the water should not run entirely out of it. A small air-pump would then serve to keep a vacuum. The use of ice is recomended for condensation because "the advantage of ice for internal condensation arises from the fact that air combined with ordinary water is discharged in the act of freezing, hence there would be little air to pump out."

The use of the term "horse-power" is very common, yet few, except good mechaaics and eagineers, attach a definite meaniug to it. It means the power required to lift 33,000 pouuds avoirdupois one foot high in one minute.

Curious Facts About Cutting Timber. Cut timber from September to December, and you cannot get a worm into it. October and November are perhaps the best months, and sure to avoid worms.

You cut from March to June, and you cannot save the timber from worms or borers. May used to be called "peeling time," in my boyhood; and much was then done in procuring bark for tanneries, when the sap is up in the trunk and all the pores are full of sap; whereas in the fall and early in the winter these pores are empty—then it is time to cut, and there will be no worms.

When you see an ox-bow with the bark tight there are no worms, no powder post, and you cannot separate it from the wood, and what is true in one kind is true in all kinds of timber, and every kind has its peculiar kind of worm. The pine has, I believe, the largest worms; and these worms work many years. I have found them alive and at work in white oak spokes that I knew had been in my garret over twelve years, and they were much larger than at first; they do not stop in the sap, but continue in the solid part. I do not think of buying timber unless it is cut in the time above alluded to.

I have wondered that there has not been more said on this subject, and it is one of great importance, even for firewood and especially for building, etc.—*Exchange.*

Production of Steel by Means of Gases. M. Aristide Berard brought before the Academy of Sciences, at its sitting of June 26th, his method of forming steel by means of gases. It consists in alternately oxidizing and reducing cast-iron in a furnace suited to the purpose. The oxidation is produced on one portion of the cast-iron, by the introduction of atmospheric air, and the reduction on another by a mixture of hydrogen and carbonic oxide, previously freed from sulphur. After twelve or fifteen minutes the processes are reversed, the portion subjected to oxidation being submi ted to reduction, and *vice versa*. Any oxygen evolved is absorbed by burning coke placed in a suitable position. When this alternate action is found by trial to have been continued long enough, the operation is stopped, decarbonation being the terminating process. During oxidation the bases of the metals proper and of the earths are oxidated—the sulphur, phosphorus, etc., form acids, and escape. During reduction, the iron is brought to the metallic state, and the earths separate as scoria, any remaining sulphur, phosphorus, etc., being eliminated as acids, and some carbon is restored to the iron. A high temperature is produced during oxidation, a low during reduction. Ten or twelve tons are manipulated at each operation in the establishment which has been formed by the inventor—and the steel produced is said to have all the properties of the ordinary kind.

Strength of Materials.—It is a remarkable fact, that one of the most abundant materials in nature—iron—is the strongest of all known substances made. Made into the best steel, a rod one-fourth of an inch in diameter will sustain 6,000 pounds before breaking; soft steel, 7,000 pounds; iron wire, 6,000 pounds; bar-iron, 4,000 pounds; inferior bar-iron, 2,000; east iron, 1,000 to 3,000 pounds; copper wire, 3,000 pounds; silver, 2,000; gold, 2,500; tin, 300 pounds; cast zinc, 160 pounds; sheet zinc, 1,000 pounds; cast lead, 55 pounds; milled lead, 200 pounds.

Of wood, box and locust, the same size, will hold 1,200 pounds; the toughest ash, 1,000; elm, 800; beech, cedar, white oak, pitch pine, 600 pounds; chestnut and soft maple, 650 pounds; poplar, 400 pounds. Wood which will bear a very heavy weight for a minute or two will break with two-thirds the force actiug a long time.

A rod of iron is about ten times as strong as a hempen cord.

A rope of an inch in diameter will bear 2½ tons, but in practice it is not safe to subject it to a strain of more than about one ton. Half an inch in diameter, the strength will be one-quarter of an inch, one-sixteenth, and so on.

New Fire Annihilator.—A number of scientific gentlemen in England, have been witnessing experiments at Mr. Willing's premises, King's Cross, with a new fire-extinguisher, the patent of Dr. Carlier & Mr. Viguon. A huge fire was lighted three times, each more powerful than its predecessor, and a man with one of the machines, it is said, completely mastered the conflagration in a few seconds. The machine is portable, and costs from £4 to £6. It is always charged; may be slung upon a person's shoulders; and can be used by a child. The charge simply consists of a large seidlitz compound; and, the vessel being air-tight and capable of bearing a pressure of 150 lbs. to the inch, the liquid containing the gas can be projected to a considerable distance. The experiments were deemed satisfactory.

The Marysville *Appeal* urges the establishment of a woolen factory in that city

Copper Sme'ting in Plumas.

High up in the mountains, to the northeast, in the upper part of Plumas county, there seems to be a large region bidding fair to become remarkable for copper and perhaps gold. There are many copper veins, of which only one is being successfully worked, called the Cosmopolitan, in Genesee Valley, where a good set of smelting works, costing thirty thousand dollars, has been completed under the control of Mr. I. C. Clapman, where, on the average, about six hundred pounds of pure copper are smelted daily. Here the melted copper is not drawn off into moulds as at Copperopolis, but, as it runs from the furnace into a vat kept hot by a surface of burning coals, it accumulates till the vat is full. Then the coals are removed, and the worthless slag soon cools in a crust and is then thrown away; next successive crusts of matt, of about fifty per cent. of copper are thrown off at the rate of three for each minute. This is kept for a second refining process. Next the pure copper appears at the bottom, and is known by the fact that no crust will form on the surface when the whole is left to cool in a mass of pure metal. The freight upon pure metal to San Francisco, is comparatively light, where it is sold at a good profit to all engaged in the work. About four miles above this another set of works is also being put up, and fine copper mining times, during the coming year, are anticipated. The scenery of this region here, in upper Plumas county, is indeed grand, magnificent; vast granite ridges rise two, three, or even four thousand feet high, exceedingly steep, often impossible for a horse to ascend straight, and even very difficult for a man; generally covered with a good growth of pine timber, from the bottom to the top. The summit of these ridges may be a mere back-bone, of a rod or a few rods across, with each side alike precipitous, though at times this highest land will widen out to acres in extent. In the deep cañons below, a little pure stream of water for miles in a rocky channel destitute of any level land upon its bank; then again these steep mountain sides recede back a little from the streams and leave a beautiful, smooth, even, grassy valley, a very few rods or a few hundred rods across, and two, three or six miles in length, crooking and winding with the stream, among the towering heights hanging over them, the most lovely imaginable in contrast with the rugged mountains, shutting them in. All these valleys are now taken up in farms or dairy ranches, and are held at a high price by their owners.—*Pacific.*

The Idaho Tin Discovery.—The editor of the Owyhee *Avalanche*, who took a tour through the mines of that region, writes to his paper as follows of the late report of the discovery of tin ore in Indian creek:

This discovery is no humbug gotten up for the purpose of speculation or excitement, but is a fact. All the miners that have worked the placer claims within certain limits recollect the presence of the peculiarly shaped pebbles in their claims, and it is believed that it may be found in paying quantities. It is not a little singular that these mines have been worked for two years without any one of the miners knowing that they were valuable. The different degrees of abundance in which the ore is found in different places along the creek indicates that a mine of the stuff may be found somewhere about the north end of Gold Mountain. The ore is very rich, yielding about seventy-five per cent. of pure metal. Col. Fogus produced a little tin brick this afternoon, about the size of a five franc piece, from two ounces of the ore. Much of the metal was lost as he succeeded in reducing the ore after trying two processes in vain.

Dirt Crushing.—Messrs. Depew & Co., says the Calaveras *Chronicle*, have just finished their 10-stamp mill, to crush the dirt from their tunnel. Experience, says the *Chronicle*, has proved that the clayey dirt taken from some of the tunnel claims in that neighborhood pays far better by being worked in a mill than by any other process. A hundred mills or more may be employed, in the various parts of the State, to work gravel that is now being washed, and at a vastly increased profit over the mode of simply washing with sluices. Experiments in Nevada county fully proved this years ago.

The Dalles *Mountaineer* says a couple of miners came down from the John Day mines some days since with thirty-seven pounds of gold, the result of their industry during the past summer.

Smoke from burning woods in Canada has been so dense as to prevent navigation on the St. Lawrence river.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

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It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides and the evidence of any error which may appear will be received in friendship and treated with respect.

American and Foreign Patents.—Letters Patent for Inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the credit system.

San Francisco:
Saturday Morning, Nov. 18, 1865.

Agent Wanted.

A good Canvassing Agent can secure permanent and remunerative employment by calling at the office of the MINING AND SCIENTIFIC PRESS, 505 Clay street.

DEWEY & CO.,
Publishers and Job Printers,
Office Mining and Scientific Press, San Francisco.

IMPORTANT EXPERIMENT.

The Grass Valley *National* gives the following account of an important experiment recently made at the Empire mill, in that town, to test the different results between working sulphuret sands by the usual process of saving fine gold, and then concentrating and submitting the sulphures to a chemical (chloration) process; or submitting them to a thorough pan triturntion process (similar to that to which silver ores are applied), after the free gold has been first taken out.

Heretofore, says the *National*, this company have concentrated the sulphurets, and sold them, to be worked by chemical process. The experiment was tried on a lot of blanket-washings, weighing 2,700 pounds; and after saving the gold by the usual process, the tailings were run through the pans, instead of separating the sulphurets. The amalgam cleaned up in the pans amounted to fifty-two ounces, which retorted $285. It is estimated that the tailings would have yielded a quarter of a ton of sulphurets, which would have sold for fifteen dollars. Here was a clear saving, by the use of the pan (Baux & Guiod's), of $270.

Captain Lee would be doing a good service to the mining interest by carefully repeating this experiment, for verification. We would suggest that the "blanket-washings," after being treated by the "usual process" of saving the free gold, should be divided into two equal parts, carefully sampled—one half submitted to the pans, and the other half worked by the chloration process, and the results carefully noted.

SODIUM-AMALGAM.—Elsewhere in our columns, to-day, will be found a very interesting article giving the result of some experiments in the use of sodium amalgam. Of course the subject is far from being exhausted; but several very important facts are presented in which our mining readers will be particularly interested. The high standing of the writer, Mr. Kustel, as a practical metallurgist, entitles his experiments and observations to a careful consideration, although it is possible he may have placed too low an estimate on the utility of this newly discovered agent for the amalgamating room. We shall probably soon be able to lay the results of more extended experiments before our readers.

WE would call the especial attention of our mining friends, who may be in need of the aid of a mining engineer or expert, to the card of G. Kustel, which will be found in another column.

A NEW WINE PLANT.

An entirely new kind of wine has recently been produced in several localities in New York and Connecticut from a plant known as the "Linnæus Plant." In appearance it much resembles the pie plant; but is quite dissimilar in its chemical proportions. It will flourish readily on any ordinary corn land. Set out in the fall, it is ready to be gathered for wine-making the next July or August. All machinery needed for extracting the juice is a common cider press. It appears that certain parties, the past season, manufactured 4,006 gallons from 3,264 plants, besides obtaining from the same plants 20,000 settings for new plants next year.

The New York *Tribune* says, an experienced horticulturist, who made 1,500 gallons, declares that the wine, in many of its qualities, "is superior to any ever before manufactured in this country or imported from Europe." The plant is being extensively introduced by a number of prominent citizens of the State of New York. As high as $2.50 is said to be offered for the wine, and United States District Attorney Dickinson, Judge Griswold, Congressman Hotchkiss, and other prominent citizens of Binghamton, declare that the wine possesses "a beauty of flavor and a delicacy of taste seldom, if ever, excelled by the best Sherry wines of Europe," and that the plant cannot fail "to be a great and sure source of revenue to all who engage in its cultivation." Would it not be well for some of the California wine-growers to introduce the plant into this State?

WINE MAKING IT NAPA COUNTY.—St. Helena is situated near the head of Napa Valley, seventeen miles north of Napa City, and eight miles south of Calistoga Springs. At this point the valley is comparatively narrow, being only from three to four miles in width from the rugged range on the east to the hills skirting the west. It is this location which is claimed to produce some of the best-flavored and strongest wine in California, partly from the volcanic formation of its soil, and partially from the remarkably even temperature of the climate, which not only adds to the uniform growth and flavor of the grapes, but is an important favor in the critical period of fermentation in wine making. There are many fine vineyards in the neighborhood of St. Helena, some of which, doubtless, furnish the city of San Francisco with hundred of tons per annum of the sweetest grapes which enter her markets. Among the vintages devoted to wine-making, we visited that of Dr. G. B. Crane, a gentleman of unlimited hospitality, and fine scientific attainments. He is ardently and intelligently devoted to wine and grape culture, so much so, in fact, as to remind us that the grape and wine culture of our country is certainly worthy of scientific and professional attention. Dr. Crane has some 3,000 gallons in his cellars of the vintages of '62 and '63, which he is confident, from its strength and purity, will bear transportation to New York or Europe better than wine manufactured in any other district on this coast. He has now forty acres of vines under cultivation, thirty of which will be bearing next season. Many foreign varieties are embraced in his collection. This year's manufacture will comprise about 6,000 gallons, entirely from the California grape. Young vineyards are a noticeable feature of this locality, a district which we think, is destined to become notorious for its wine-growing qualities, as it already is for its rich grain fields.

COMMENCEMENT OF THE RAINY SEASON.—The rainy season has commenced in earnest. The amount of water which has fallen during the past week has probably been quite sufficient to enable the farmers to plow, and with a little addition, which is even now coming as we write, will enable the miners in the dry diggings to wash the dirt which they have heaped up during the summer. The prospect is also fair that the rivers and ditches will soon be flowing full, and giving life and confidence to all branches of industry. The rains have been general throughout this State and Nevada.

San Francisco Mining Machinery.

The Reese River *Reveille* has a compliment for San Francisco machinists, which that paper places before its readers in the following manner:

A few days ago, Mr. Whitlatch, the discoverer of some of the best mines about Austin, but who has been living in Montana for two years past, arrived back in Austin, on his way to San Francisco to buy a quartz mill. He told us he could get a mill from the Eastern States much cheaper, and the cost of transportation up the Missouri river would be very light; but, from what he had seen, he was satisfied that one California quartz mill would outlast and do better work than two or three of the Eastern States mills, and for that reason he thought it economical to buy his mill at San Francisco and haul it home by way of Austin.

Apropos to the above an Idaho correspondent of one of our cotemporaries writes that a large number of parties in that Territory—a majority of them—obtain the machinery for their quartz and other mills from Chicago, freighting them overland. The quality of the machinery procured in Chicago is not so good as that procured in San Francisco, but the cost of freight from the former city is so much cheaper than from the latter, that it becomes a matter of great saving for the Idaho miners to make their purchases on the shores of Lake Michigan, instead of on the shores of the Pacific. The distance from Chicago to the Idaho mines is fully fifteen hundred miles; while from San Francisco it is less than seven hundred. Yet freight can be transported over the former long and tedious route much cheaper than it can over the latter short one. With improved facilities for transportation, San Francisco machinery will eventually supersede Eastern work in all our Pacific mines.

CORRECTION.—In the notice of Mr. White's Desulphurizer, which we made last week, an error occurred as to the amount of work which the inventor claims the machine is capable of accomplishing. For twenty-four tons in twenty-four hours, read forty-eight tons in twenty-four hours. Mr. W. claims that from actual experiment he can thoroughly desulphurize at the rate of two tons per hour of running time. A shovelfull of ore discharged from the hopper into the machine, when running at its proper speed, ordinarily passes through in eight minutes—from six to ten is the general average; the time varying somewhat with the character of the ore. Mr. White may be seen for consultation every day between the hours of twelve and one o'clock, at room No. 10 Government House.

THE MEADOW LAKE MINES.—It is now ascertained, says the Grass Valley *National*, that the Enterprise is the leading mine in that region, and every blast that is made in the ledge shows richer ore than the above. This mine more resembles a huge quarry than a ledge. Some of the old locations, the Excelsior, Pacific, Wisconsin, Parker, and Reporter, are being worked, and show much better in mineral than has ever been expected by the owners. Of the new locations, some have developed fine ledges, which may prove equally as rich as the famous Enterprise.

THE MOSCOW-OPHIR SUIT.—The compromise agreed to by the Ophir and Moscow companies has been abandoned, in consequence of a dispute that arose when the papers were to be signed. The consequence is that the Moscow people are preparing to prosecute their suit.

RAILROAD TO GRASS VALLEY.—The *Union* says that Mr. Hart, a popular railroad man, is making preparations for the survey of a road between Grass Valley and Colfax, with the intention of testing the feasibility of a railroad between the two places. Already many of our prominent citizens have subscribed towards the survey.

PRICE OF PASSAGE.—The P. M. S. S. Co.'s steamship Constitution sails to-day. The rates of passage are: First cabin, outside rooms, $210; do. inside rooms, $157.50; second cabin, $90; steerage $60.

FROM THE OIL REGIONS.

The Humboldt *Times* says that a large oil spring has been discovered near the Big Bend of Mad River, on the land owned by Capt. Fauntleroy, of the steamer Del Norte. This is the first discovery of the kind made in that vicinity, although the shale and sandstone formations are known to exist there much the same as in the localities that are now attracting attention, and where operations are progressing. The Blue Slide and the Humboldt Butte Petroleum companies are located in lands in the immediate vicinity of Big Bend of Mad River, both of which are preparing to sink wells.

This locality is upwards of twenty miles north of any previously discovered oil springs in that county, and some ten or twelve miles to the north-east of Eureka. The Del Norte, on her last upward trip, took up a set of boring tools for the Buckeye Petroleum company, whose land lies about one mile east of the Union company's well; another for the Mattole Creek Petroleum company, and a third for the Eel River Petroleum company.

The *Times* further says that rumors are rife of new developments in the vicinity of the Noble well, and understands on good authority that a bid has been made for the Union well for one year, of $10,000. Work is progressing satisfactory at the Oil Creek Co.'s well.

SANTA BARBARA.

With regard to the prospects in this county, the *Gazette* says that although in the throe or four wells which are in course of operation a flow of oil has not yet been obtained, nevertheless the amount of crude oil which runs to waste at the surface, is so enormous, that it would seem to be impossible that there should not exist below an immense deposit. Between the town of Santa Barbara and the boundary of Los Angeles county, there are now perhaps one hundred and fifty new comers, in the employ of Eastern capitalists, actively boring for oil. At San Buenaventura, where the first oil enterprise was started, years ago, by Mr. Gilbert, they are now shipping crude oil by the hundred barrels to San Francisco, for refinement. This oil is the natural yield of the springs without boring. In the valley of San Buenaventura alone, hundreds of barrels of crude oil have run to waste heretofore daily, being the natural flow of the oil springs existing there.

A somewhat extended notice of the oil interest in Colusi county will be found in the letter of our correspondent from that region, which will be found in another column.

OIL IN LOS ANGELOS.—The Los Angelos *News* says that the machinery, for the Pioneer Oil Company's works, near that place, was received by the last steamer. It is to be hoped the company will have better success in their second trial. If the work of boring could be resumed, with new and more powerful machinery, from the depth at which they left off working, oil would no doubt be reached in a very short time. We believe that oil in abundance underlies the whole face of the earth in this vicinity; the above mentioned company have labored under great disadvantage for want of experience, and throughness in conducting the first *experiment*.

THE OIL SEEKERS of Indiana are not meeting with as good success as they had expected, or has attended the explorations in Ohio and Kentucky.

OIL WELLS.—One hundred and thirty oil wells are going down on the celebrated Pit Hole farm, in Pennsylvania.

PETROLEUM IN CALIFORNIA.—A tabular statement has been published of the various companies organized for producing coal oil in this State. The names of sixty five organized associations are given, whose lands are situated, mostly in Humboldt and Colusi counties. The aggregate capital stock amounts to about $45,000,000.

RATIFICATION.—Only seventeen States, thus far, have officially advised the ratification of the proposed amendment to the Constitution for the abolition of slavery.

THE PHILOSOPHY OF SLEEP.—Man spends fully one-third of his entire existence in sleep—a condition absolutely essential to the continuance of life. Considering the large proportion of time so occupied, and in view of the fact that that condition presents some of the most interesting and important phenomena connected with our existence, it is a matter of no little astonishment that it should be made so little a matter of study and investigation. Of late, however, physiologists are beginning to turn their attention somewhat more than formerly to a critical examination of its phenomena. But little progress has yet been made; yet the substance of what is known has recently been carefully digested and collected into an essay by Herbert Mayo, M. D., an English writer of considerable eminence, the substance of which essay we propose to place before our readers, from week to week, as among the most valuable class of "Useful Information," to which we can devote a portion of our miscellaneous columns. The first installment will be found in another column.

VALUABLE PUBLICATION.—Samuel Bowles & Co., of the Springfield (Mass.) *Republican*, have announced a publication, just ready to be issued from the press, which will contain a detailed account of Hon. Schuyler Colfax's journey across the plains to this State and Oregon, including extracts from his speeches, an Original Paper on the Mining Interests of the Pacific States, by William Ashburner, Esq., Mining Engineer of San Francisco, and Mineralogist to the California Geological Survey, and other matters of interest to a knowledge of the Western half of our Continent. This work will, doubtless, exert a very favorable influence for California at the East, and will be much sought after both there and here.

ATTEMPT TO DESTROY PROPERTY.—The Nevada *Transcript* says that an attempt was made on Saturday night last, to dest oy the celebrated Mugenta flume. The flume is the largest work of the kind in the State, and cost a very large sum of money. Two or three blasts were put into the heavy timbers that sustain it, and set off. The timbers were shattered and some damage done to the upper work. Some workmen, with whom the owners of the flume had a difficulty about wages, are suspected of the mischief. If we are not mistaken one or more similar attempts to destroy this property was made some two years since. No punishment is severe enough for a man who, to gratify a little spite against a single company, would destroy a property on the existence of which depended the opportunity of labor for thousands of men, against whom he could entertain no enmity.

IMPORTANT TOPOGRAPHICAL DISCOVERY.—The *Territorial Enterprise*, of Virginia City, is informed by Mr. Henry Donnell that he has discovered a new route by which a railroad can be constructed from the foot of Six-Mile Canyon, via Walker Lake and Red Mountain District, to Ruby Valley, without crossing a single chain of mountains in the entire distance. This, the *Enterprise* thinks, is something important for the contractors of the Pacific Railroad to know, and may ooe day be made available.

THE SONORA HERALD is the title of a new weekly paper recently established at Sonora, Tuolumne county, by Brunton & Coffin. The paper presents a fine typographical appearance and appears to be conducted with a degree of industry and ability, which ought to secure for it a liberal support. The last number containe an interesting article on the ancient gravel diggings of California, which we purpose to copy oext week, with comments.

EMIGRATION INTO HUMBOLDT COUNTY.—The Humboldt *Times* is informed by a gentleman just returned from the Northern mines, that there are one hundred emigraat wagons *en route* from Oregon for Humboldt county. The Quincy *Union* says about tweaty Cornish miners passed through that towa on Saturday, the 4th inst., on their way to the Crescent Mills.

RAILROADS.—An unusual degree of interest appears to be felt, at this time, in the various railroads in progress and in contemplation throughout the State. All those in progress are being pushed ahead with a most encouraging degree of energy, and give good evidence of "a good time coming."

METEOROLOGICAL DISTURBANCES.—The barometer on Thursday last indicated an unusual disturbance among the elements overhead. The variations were said to have been more sudden and the range wider than at any former time in years. It rose rapidly just before noon, but fell again towards evening.

A NEW and more careful survey of the route for a railroad from Stockton to Copperopolis makes the distance shorter by some ten miles than the line previously surveyed. The new course, however, necessitates a tunnel of 900 feet.

FROM four to five hundred working people at Worcester have resolved to abstain from the consumption of meat until the price becomes lower.

To Publishers.

An editor and practical printer, of good experience and recommendation, desires a situation and will accept a moderate salary on trial. Address this office.

PATENT RIGHT FOR SALE.—The exclusive right for the manufacture and sale of "Hutchinson's Wine and Cider Mill and Press, for the States of California and Oregon, is advertised for sale in another column. It is a valuable patent, and the offer affords a fine chance for business.

BACK VOLUMES.

Back files of the MINING AND SCIENTIFIC PRESS, from January 1st, 1864, to the present time, will be furnished at $3 per volume of six months; bound in cloth, $5.

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One copy, six months, by mail, in advance	3 00
One copy, one year, by express	6 50
One copy, six months, by express	3 50
Five copies, one year, by mail, in advance	20 00
By city carriers, per month	50
Single copies	12½
Monthly Series (or parts), containing 4 Nos	50
Monthly Series, containing 5 Nos	62½

THE CIRCULATION of the PRESS, already extensive, is rapidly increasing, and substantial men who can profit by widely disseminating information of their business amongst the most intelligent, influential and industrial classes of the Pacific States and Territories will find no more effectual or economical medium for advertising

DEWEY & CO., Proprietors,
Patent Agency and Job Printing Office, 505 Clay street, San Francisco. July 1 1865

QUARTZ OPERATOR'S HAND BOOK.

A Book for Every Intelligent Prospector, Shareholder, Miner and Machinist.

ZENAS WHEELER AND P. M. RANDALL,
Authors and Publishers.
BOUND IN CLOTH—141 PAGES, DUODECIMO.

THE QUARTZ OPERATOR'S HAND BOOK is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

The work also contains an original and highly interesting discussion of the tractory and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs. W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Belshaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on pa 415 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865.

Sold by booksellers generally. Price by mail, postage paid, $1.25. Address "Wheeler & Randall, at the Mining and Scientific Press Office, San Francisco." 2v11

OUR NEW YORK AGENCY.

MR. GEO. M. NEWTON is our authorized agent in New York City, and will receive advertisements and subscriptions for the MINING AND SCIENTIFIC PRESS at regular rates. Sample copies of our weekly and monthly issues can be procured by calling upon him, at the office of the "STOCKHOLDER," **No. 72 William street.**

PHILADELPHIA AGENCY,

Parties wishing to subscribe or advertise in the MINING AND SCIENTIFIC PRESS can be accommodated by calling upon our Agent, Mr. TURNER HAMILTON, at the Assembly Building, 106 South Tenth street, Philadelphia, Pa., where sample copies of our publications can always be found.

REMOVAL.

MONS. A. COULON,

Informs his patrons that he has removed his DRAWING SCHOOL from Pine street to

110 Kearny Street,

Drawing Classes in the Evening will take place as usual. DRAWINGS FOR PATENTS accurately and neatly done. 20v11-1m

G. KUSTEL,

Metallurgist and Mining Engineer,

Stevenson House, corner Montgomery and California sts

Ores Analyzed,

Advice given, and Plans Furnished for working of different Ores. Mines examined and reported upon. 20v11 3m

Oakland Water-Cure.

APRIL 1ST, 1864, WE OPENED A HYGIENIC BOARDING House and Ladies' Health Institute in Oakland. The great advantage we have experienced since that time, in the treatment and cure of all those diseases peculiar to females, as well as those common to all, over that of San Francisco, induced us to give up the treatment of gentlemen in the city. We have accordingly removed our entire Bathing, Electro-magnetic, and Gymnasic Apparatus, which we used especially in the treatment of males, to our Health Institute across the Bay, and have found, after a trial of seven months, that gentlemen as well as lady patients recover, at our Fountain Farm Cure, one-third faster than in the city of San Francisco. The climate here is the most even and bracing to be found in the State. The grounds command a view unsurpassed in the world. The Institution is furnished with an abundance of pure, soft water, from numerous springs; and we now offer to Ministers, Teachers, Lawyers, Miners, Merchants, Mechanics, Farmers, and all other worthy persons, who desire to try the advantage of the only *rational* system of medicine, the hospitalities of our Hygienic Home and Cure. Young men who have become debilitated or lost their health by excessive toil, exposure, or enervating habits, contracted through ignorance of Physical Law, may with us find more of the encouragements they need, and means that will restore them to health, than elsewhere in California.

We claim for Water-Cure and Hygienic Medication superior advantages over all systems of drug medication in the cure of all disorders, whether acute or chronic; that it is followed by none of those debilitating diseases, such as Piles, Chronic Diarrhœa, Torpid Liver, Constipation, Intense Nervousness, Neuralgia, etc., nor those terrible Secondary Diseases, known as Varicose Swelling of the Veins, Necrosis, or Decaying of the Bones, Ulceration of the Limbs, Mercurial Rheumatism, Urethal Stricture, etc., which we well know result from the free use of mercury and other metallic drugs, together with stimulants and vegetable poisons given to overcome acute diseases.

The Oakland Water-Cure and Eye Infirmary is now the most complete in its facilities for the cure of all cases commonly treated in all Eastern Water Cures or any like establishment on this coast, and the only one in California conducted according to the Theory and Practice of the New York Hydropathic College. We use all forms of Wet and Cold Wet Sheet Packs, the Electro-Chemical Bath, Steam Baths, Improved Sitz Baths, Douch Baths, a Patent Spray Bath, and Magic Baths. The last named was invented by Dr. Smith with special reference to the cure of those diseases peculiar to males, namely: Rheumatism, Inflammatory or Chronic, Stiff Joints, Paralysis, Mercurial, Lead, and Opium Poisonings. It is a sure cure for Ague and Fever. It aids more than any other Bath we have yet used in eradicating all kinds of drugs and infectious poisons, and in the cure of all diseases induced by exposure to dampness and water, foul air, absence of light and electricity, retorting metals, the malaria of rivers and low marshy grounds. Where there was a fair constitution left, even when drugs had been applied for months at a time without a cure, we have, in the past seven years, treated successfully the following diseases: Chronic, Inflammatory and Mercurial Rheumatism; Paralysis; Lung, Bronchial and Catarrhal Affections; Diseases of the Heart, Kidneys, Liver; Dyspepsia, Constipation, Erysipelas, Scrofula, Piles, Inflammation of the Bowels, Diarrhœa, Chills and Fever, and all diseases and weaknesses peculiar to male and females. No physician in California is so favorably situated to furnish so many home comforts and hygienic conditions that are indispensable to the speedy recovery of nervous and chronic invalids. We have the only truly healthful boarding place in the State for men, women and children, with plenty of saddle and carriage horses for the use of patients and boarders.

To that class of Diseases and Weaknesses peculiar to females, and the medication that Hydropathic or Hygienic physicians employ in their cure, do we invite the special attention of patients and their friends. The ease and rapidity with which females suffering from general or special debility, recover in the bracing climate of the Bay, under Hygienic Medication, together with the native sal succus that has attended the treatment of females at Dr. Sioi's Institutions, (both in Sacramento and San Francisco) has induced us to make this class of diseases a specialty of our Institution. We have treated (mostly in the cure) over 300 females, several of whom had been "bedridden" for months and years, and all have been decidedly benefited, and with but few exceptions, returned to their homes in from two to six weeks, so far recovered as no longer to need a physician. We have never yet learned of a single instance of a relapse into their former condition.

There is not one female invalid in twenty that has been suffering from nervous debility or diseases peculiar to her sex, that cannot be permanently cured by attending from four to six weeks at our Cure, and at the mere cost of $100. This statement we make in confidence, from an experience of the last seven years. From the many who have been treated at our Cure, we have yet to learn of a single regret from husband or wife of the time or means they have expended in Hygienic Medication.

NEW YORK, Aug. 1, 1858.

To all whom it may concern:

This certifies, that Dr. Barlow J. Smith is a graduate of the New York Hygieo-Therapeutic College, which College has a regular Charter from the Legislature of the State of New York, and is authorized to confer Diplomas, conferring on its students all and the same privileges and immunities in relation to the practice of the Healing Art, that are conferred by the Diplomas of any Allopathic or other Medical College in the country.

Dr. Smith has also devoted much attention to Phrenology, especially in its connection with Physiology and Pathology, a portion of the time under the instruction of Fowler & Wells, of this city, and has labored successfully as a teacher and lecturer on these subjects.

R. T. TRALL,
Principal New York Hygieo-Therapeutic College.

To all whom it may concern:

I have known Dr. Barlow J. Smith, both in our office as a student, and a practical Phrenologist in the country, and from what I know of him I can cheerfully recommend him as an honest, faithful delineator of character, and as such I can cheerfully recommend him to the public.

For the good of Science.
L. N. FOWLER, 308 Broadway, N. Y.

Dr. Smith spends a part of each day in San Francisco, attending to family practice and to Phrenological and Physiological examinations at his office, Room 13 Armory Hall, up stairs, corner Montgomery and Sacramento streets. Office hours from 11 A. M. to 2 P. M. Circulars sent on application. Address,

BARLOW J. SMITH,
20v11tf San Francisco, Box 473.

Just and True Economy
IN MINING ADVERTISING.

The Proprietors of the MINING AND SCIENTIFIC PRESS would call the especial attention of MINING SECRETARIES, TRUSTEES and SHAREHOLDERS, to a few substantial reasons for the publication of Mining Notices in their Journal—the first and only important newspaper of its class published upon this coast.

1st. The PRESS enjoys a large and permanent subscription list, having a more universal circulation among shareholders and men immediately connected with mining interests than any other publication.

2d. Under the present law the publication of all mining notices on Saturday, in a weekly journal, complies as fully with the statutes as a daily publication. It is generally found to be equally as convenient for secretaries, and decidedly preferable to stockholders who have not time to examine throughout every issue of a daily.

3d. Economy in mining should always be looked upon with favor, and the cost for weekly advertising in the PRESS is less by one-HALF than the rates of any other journal in this city possessing a respectable circulation.

4th. The publishers of the PRESS, making the mining interest their especial care, take particular pains to assist in the avoidance of errors in advertising. Our print is also more clear and perfect than can be expected in such papers as are hurriedly issued from cylinder presses.

5th. Our "Shareholders' Directory" forms a complete index of all mining notices published in San Francisco, by reference to which shareholders can at once see if their company is advertised, and determine whether the same is inserted in the Press or some other paper.

6th. Many copies of the PRESS are bound by prominent professional men, mechanics, secretaries, brokers, shareholders and others, as an important record for future reference, thereby rendering advertising, of every class, in its columns, of peculiar and permanent value.

7th. The benefit of having all mining notices consolidated in one newspaper, for the common convenience of shareholders, secretaries, and others who have occasion to refer to the same, is obvious. With this view we have established our rates at only fair, living prices, believing that a journal like ours, untrammeled by party, creed, or prejudice, is the only medium which can reasonably ask for such a consolidation of mining patronage.

8th. Advertisements in the columns of the PRESS, after their first insertion, are arranged alphabetically. Our present list is equalled only in one instance by that of any other journal. Shareholders, as well as strangers, naturally turn their attention to a mining journal for information concerning the mines and mining matters.

LAST, BUT NOT LEAST.—Our sheet (having been recently enlarged to the size of Harpers' Weekly) is now only equalled in its dimensions by one mining paper in existence—the *London Mining Journal*. Published in this, the greatest mining field of the world, we desire that the PRESS shall have no superior. We can only realize our cherished object of building up a reliable advocate of the science and business of mining, which will be of first honor and profit to our community, by experience and liberal patronage. The bestowal of such favors only as naturally belong to us, and which it is clearly for the benefit of the mining fraternity to extend, is all that is requisite, and we are confident we shall receive it

DEWEY & CO.,
4v11 Office Mining and Scientific Press.

MINING BLANKS
For Sale
AT THE
OFFICE OF THE MINING AND SCIENTIFIC PRESS,
No. 505 Clay Street, corner of Sansome.

Blanks for Mining Companies, Secretaries, Shareholders and others, always on hand, or printed to order, at our office.

Among others are those of the following forms:

Shareholder's Proxy.

Know all men by these presents, that I, ... do hereby constitute and appoint ..... my attorney and agent, for me and in my name, to vote as my proxy, at a meeting of the ..... Mining Company, to be held ..... 186, according to the number of votes that I should be entitled to cast were I there personally present.

In witness whereof I have this day hereunto set my hand and seal. .....[Seal]

Dated ....., 186

Assessment Notice.

..... Company

.....

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the ..th day of ....., 186, an Assessment of .....per share was levied upon the Capital Stock of said Company, payable on the ..th day of .....186, in United States gold and silver coin to the Secretary.

Any stock on which said Assessment shall remain unpaid on Saturday, the ..th day of ....., 186, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on ....., the ..th day of ....., 186, to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees.

..... Secretary.

Office.....

NOTICE.—There are delinquent, upon the following described Stock, on account of assessment levied on the ..th day of ..... 186, the several amounts set opposite the names of the respective shareholders as follows, to wit:

Names.	No. Certificate.	No. Shares.	Amount.
Theophila Thisle	23	14	$140 00
Peter Pipo	2	3	30 00

And in accordance with law and an order of the Board of Trustees, made on the ..th day of ....., 186, so many shares of each parcel of said stock as may be necessary, will be sold at the.....

....., on ....., the ..th day of ....., 186, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

..... Secretary.

Office.....

☞ Our advertisers are furnished with blank Assessment Sale notices free of charge. Orders from the interior promptly filled, by mail or express, as may be desired.

Traveling Agent.

MR. ROBERT LATTIMORE is now on a canvassing tour for the PRESS through Butte, Colusi, Tehama, Shasta, and Siskiyou counties, and we recommend him to the favorable consideration of our friends.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible.

POSTPONEMENTS.—We would again call the attention of Secretaries to a certain point of the mining law, too commonly overlooked, viz: The requirement that all postponements must be added previous to the expiration of the regular publication of assessment or sale notices.

Four persons recently died at Chester, Ill., from the effects of poison, administered by their attending physician, who received it in a sealed and unbroken package, precisely as it came from the wholesale druggist in St. Louis, and marked genuine English calomel. Upon examination it proved to be composed of calomel and corrosive sublimate, the latter resembling calomel to some extent, in appearance.

Another instance of the logical tendency of young minds recently came under our notice. A little philosopher, about thirty inches high, after finishing a glass of water, asked his mother if the glass was made of the same stuff as the pier glass, and being answered that it was, said, "Then a looking-glass is only a tumbler flattened out."

Mining and Scientific Press

JOB PRINTING OFFICE,

No. 505 Clay street, corner of Sansome.

CERTIFICATES
—OF—
STOCK
—FOR—
MINING
—AND—
PETROLEUM
Companies
Neatly Printed.

Stock Certificates of all kinds embellished with wood cuts and electrotype engravings. We devote special attention to the execution of all kinds of work required by Mining Companies, Machinists and Manufacturers.

Metallurgy.

EUROPEAN
METALLURGICAL WORKS,
—AND—
Practical Mining School,
Bryant Street, Between Third and Fourth,
SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. Kimball, J. R. Murphy.
10v10

BOALT & STETEFELDT,
Metallurgists and Mining Engineers
AUSTIN, NEVADA.
Western Branch of ADELBERG & RAYMOND, No. 90 Broadway, New York. 11v11

FIRST PREMIUM
FOR REFINING COAL OIL,
At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,
17v10 643 Third Street, bet. Brannan and Townsend.

NEW DISCOVERY
FOR DESULPHURIZING AND DECOMPOSING
METALLIFEROUS ORES,
—SUCH AS—
Auriferous Sulphurets, Arsenites or Antimonial Telluric, Gold and Silver Ores.

By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by

DANIEL ROSS,

Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me.

EDWARD ARNOLD.
Inventor and Patentee.
Monitor, Alpine county, Cal.

W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11

Professional Cards.

Our Patent Agency.

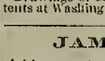
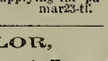
The Patent Agency of the Mining and Scientific Press has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of Letters Patent from the United States and foreign Governments cannot be over-rated, and the Proprietors of the Press, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

WM. L. DUNCAN,
Stock Broker,
Member of the San Francisco Stock and Exchange Board.
No. 605 Montgomery Street, San Francisco
Mining Shares and Legal Tender Notes bought and sold strictly on commission. Liberal cash advances made on stocks consigned for sale. 1v11-3m

S. C. BUGBEE & SON,
ARCHITECTS.
DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.
74 and 75 Montgomery Block
SAN FRANCISCO. 25v10-3m

FREDERICK MANSELL.
Mechanical & Architectural Draughtsman,
No. 422 California street, corner of Leidsdorff.
Drawings of Models made for parties applying for patents at Washington or London. mar23-tf.

JAMES M. TAYLOR,
Attorney and Counsellor at Law,
COURT COMMISSIONER, appointed by the Fourth District Court, COMMISSIONER OF DEEDS for Nevada and Massachusetts,
Court Block, San Francisco.
Entrances opposite City Hall, Merchant street, and 636 Clay street. 14v11tf

DR. H. AUSTIN,

DENTIST,

No. 634 Washington Street,
Between Montgomery and Kearny Streets
[OVER SAN FRANCISCO BATHS]
SAN FRANCISCO. 20v10-qy

OLNEY & CO.,
Real Estate, Stock, and General
Auction & Commission House.
No. 626 Montgomery Street, Montgomery Block.
JAMES N. OLNEY—Auctioneer.
Secretaries of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

AUGUST KUNAST,
Stock Broker,
Member of the
San Francisco Stock and Exchange Board,
Buys and Sells Stocks, Bonds, Etc.
Office, No. 540 Washington Street, San Francisco. 2v10

G. F. DEETKEN,
Mining Engineer and Metallurgist,
Address - - - - - San Francisco. 25v9

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for the State of Nevada and the Territory of Arizona,
AND FOR THE
STATES OF MASSACHUSETTS AND MAINE.
Office, Montgomery Block, 626 Montgomery Street, SAN FRANCISCO. 10v8-2m

GEORGE H. BAKER,
Lithographer & Engraver,
No. 522 Montgomery St., San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS. 10v8-tf

SHERMAN DAY,
Mining Engineer,
No. 56 Montgomery Block, San Francisco,
Will examine, survey and report upon mines, and consult and advise concerning investments in mining property, or the machinery management and expenditures of mines. 22q*

SANTA CLARA COLLEGE, S. J.,
SANTA CLARA, CAL.
Conducted by the Fathers of the Society of Jesus.
The FIFTEENTH ANNUAL SESSION of this College will commence on
Monday, August 28th, 1865.
TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicines; fuel, light, baths, etc., per session of ten months..... $350
For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco. 3v11 REV. A. MASNATA, S. J., President.

Trades and Manufactures.

Pacific Glass Works
Are now prepared to execute orders for the manufacture of
All Kinds of Bottles to Order.
Office, No. 621 Clay street, San Francisco. 3v11-3m

EDWARD BOSQUI & CO.,
PRINTERS,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
No. 517 Clay street, between Clay and Sansome streets, SAN FRANCISCO. 24v10

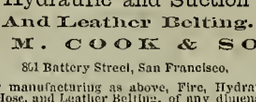
BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery and Sansome, San Francisco. 4v8-tf

JOHN DANIEL,
(SUCCESSOR TO O. GORI)
MARBLE WORKS,
No. 408 Pine st. bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs, Etc., On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

NATHANIEL GRAY,
General Furnishing Undertaker,
611 Sacramento St., corner of Webb, San Francisco.
Burstow's Metallic Burial Caskets and Cases. 1tf

THEODORE KALLENBERG,
Maker of Models for Inventors.
MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
No. 418 Market street, San Francisco. n7-tf

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Penn.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco, Cal. 10v8-1m



JAMES MACKEN,
COPPERSMITH,
No. 226 Fremont st., bet. Howard & Folsom.
All kinds of COPPER WORK done to order in the best manner. Particular attention paid to Steamboat, Sugar House and Distillery work.
Repairing promptly and neatly attended to. 13v11

Fire, Hydraulic and Suction Hose
And Leather Belting.
M. M. COOK & SON,
361 Battery Street, San Francisco.
Are now manufacturing as above, Fire, Hydraulic and Suction Hose, and Leather Belting, of any dimension and in any quantity which may be desired. Fire Hose and Belting constantly on hand or manufactured to order. Also Saddles and Horse Collars.
The subscribers would respectfully ask purchasers to call and examine their stock—also testimonials of the efficiency of their work from such as have used their hose both for fire and mining purposes. A diploma was awarded to us last year, by the Mechanics' Institute, of this city, and a silver medal this year. 12v11-1y

NEW YORK PRICES.
WATCH REPAIRING AT NEW YORK PRICES.
C. E. COLLINS,
No. 602 Montgomery street, San Francisco.
EXCLUSIVE AGENT
—FOR THE—
AMERICAN
WATCH FACTORY.
A large assortment of these
Superior Watches,
In Gold and Silver Cases,
Constantly on hand, and sold at Factory prices. Also,
ENGLISH AND SWISS WATCHES,
Imported directly from the Manufacturers.
The American Company are now making
VERY FINE WATCHES FOR LADIES.
☞ A large assortment of Gold Chains and Jewelry. 25v10-6m
NEW YORK PRICES.

I. M. WENTWORTH & CO.,
Manufacturers and Jobbers of Ladies, Misses and Children's
Channel Nailed Boots and Shoes,
Of all descriptions. All Goods warranted as represented. No. 210 Pine street, up stairs.
Wanted—15 or 20 Shoe Bottomers, on Ladies' work. Constant employment will be given to first-class workmen, and the highest wages paid. 13v11

Machinists and Foundries.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.
UNION IRON WORKS!
Corner First and Mission streets,
SAN FRANCISCO.
ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Quartz Mills, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Column Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.
Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter. Also, Scott and Eckart's Adjustable Cut-off Regulator—best in use; W. R. Eckart's Balance Valve for Stationary Engines; Woodward's Patent Steam Pump and Fire Engine.

Boilers.
Locomotive, Flue, Tubular, Upright, Cylinder and Cornish, and every variety of Boiler Work. All sizes of tubes and pipes for pumps.

Amalgamating Machinery.
Wheeler & Randall's improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Beldin's pan, Veatch's tubs, Prater's concentrators, Winklee's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.
BLAKE'S PATENT QUARTZ CRUSHERS, of all sizes.

Oil Boring Tools and Machinery,
Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.
We have the facilities for working gold and silver quartz and other ores, to test their value, by the hundred weight or ton.
Russia Iron Screens, of all degrees of fineness and of all qualities of iron.
All work done in the best manner at the lowest cash prices. 21v10 H. J. BOOTH & CO.

Miners' Foundry
—AND—
MACHINE WORKS,
First St., between Howard and Folsom Streets,
SAN FRANCISCO.
EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as
Steam Engines and Boilers, Flour, Saw and Quartz Mills,
Machinery, Mining Pumps, Amalgamators,
Retorts, Etc., Etc.
Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.
, Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, free of cost.
All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.
HOWLAND, ANGEL & KING.

Vulcan Iron Works Company
[ESTABLISHED 1850.]
First, Natoma and Fremont Streets.
IRON FOUNDERS,
Steam Engine and Locomotive
BUILDERS,
Boiler Makers, and Workers in Sheet Iron, Brass and Copper.
These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.
The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as
Mining, Steamship, and Steamboat Machinery,
Railroad Machinery, Locomotives, Car Trucks, Car Wheels, Housings and Irons; and
Flouring Mills, Quartz Mills, Sugar Mills, Saw Mills,
Manufacturing Machinery of Every Kind.
Sole Manufacturers of
HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR
BEATH'S AMALGAMATOR;
HESSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;
BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;
FAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;
JONVAL'S IMPROVED WATER WHEEL;
LEFFEL'S AMERICAN DOUBLE TURBINE WATER WHEELS.
STEVEN'S PISTON PACKING RINGS.
They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Crate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.
Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

JOHN F. GALLAGHER. JOSEPH WEED.
GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.
ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.
CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.
☞ Particular attention given to casting Rudder Braces and Ship Work in general.
☞ All Jobs promptly attended to. Prices moderate. ☜
No. 125 First street, opposite Minna, next door to Pacific Foundry. 12tf
Removed from Oregon street, between Front and Davis.

The laws of Nature are just, but terrible. There is no weak mercy in them. Cause and consequence are inseparable. The elements have no forbearance. The fire burns, the water drowns, the air consumes, the earth buries. And perhaps it would be well for our race if the punishment of crimes against the law of man were as inevitable as the punishment of crimes against the law of Nature—were man as unerring in his judgment as Nature.

Since the war began, 34,000 pensions have been issued to invalid soldiers, and 50,000 to widows, mothers, and minor children. The payments to pensioners the past year have amounted to $9,000,000, and it is stated, that when all pensions from the war shall have been granted, the annual expense will be about $13,000,000.

True Life.—The mere lapse of years is not life. To eat, drink, and sleep, to be exposed to darkness and to light; to pace round in the mill of habit, and turn the wheel of wealth; to make reason book keeper, and thought into an implement of trade—this is not life.

Ignorant men and women, who have become soured with the world, themselves, and their stomachs, are but crooked sticks which it is useless to attempt to make straight.

Boston has a population of 400,000 (with its suburbs) and a property valuation of nearly $500,000,000. It is probably the richest city, according to population, in the world.

The Union Bridge, over the Stanislaus, on on the road from Sonora to Copperopolis, cost $30,000. Upwards of 33,000 pounds of iron was used in its construction.

CALL STABLE.

N. GISHWILLER

Would respectfully inform the public that he has opened a large and well-arranged LIVERY STABLE,

On B street, Summit City, Cal,

(two doors below the Lake House), where good Saddle and Buggy Horses can be had at all times. Our charges will be reasonable, and we hope, by prompt attention, to merit a share of the public patronage. 10v11-3m

LICK HOUSE,

Corner of Montgomery and Sutter streets,

SAN FRANCISCO.

S. ALSTROM AND G. S. JOHNSON, Prop'rs.

This elegant and commodious Hotel is situated on the principal promenade street of San Francisco. The Lick House is finished and furnished with a degree of beauty and excellence unsurpassed, combining all the modern applications and arrangements of a FIRST CLASS HOTEL, thus offering superior inducements to the traveling public. The proprietors assure their patrons that the Lick House shall not be excelled in any of its appointments, or in polite attendance or attention to all the comforts of its guests. 15v11

GEORGE T. PRACY,

MACHINE WORKS,

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

SAN FRANCISCO.

STEAM ENGINE, FLOUR AND SAW MILL, And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

☞Special attention paid to Repairing.☜ qy-3

UNION IRON WORKS,

Sacramento.

WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Dunbar's Patent Self-Adjusting Steam Piston PACKING, for new and old Cylinders, manufactured to order.

Front Street, between N and O streets,

14v11 SACRAMENTO CITY.

LEWIS COFFEY. J. S. RISDON

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality. Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

MITCHELL'S

COMBINED

FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

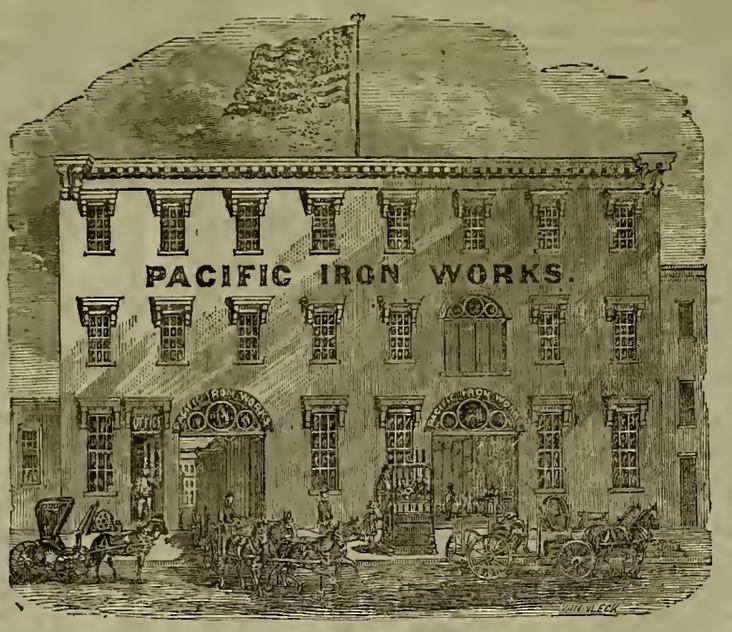
The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with GALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.

San Francisco, Aug. 22d, 1865. 10v11-3m



THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting Machinery of the most approved construction. Flour, Saw, and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully Solicited.

GODDARD & COMPANY.

BY AUTHORITY OF THE STATE OF CALIFORNIA.

Having fully complied with the law by a deposit of $525,000 bonds of the State of California, and the United States.

BIGELOW & BROTHER,

GENERAL INSURANCE AGENTS,

FIRE, MARINE AND LIFE INSURANCE,

Capital Represented.....$15,000,000.

California Deposit.....$525,000.

Office, Northwest corner Sacramento and Montgomery streets, and Northwest corner Front and California streets.

LIFE, MARINE AND FIRE COMPANIES,

HARTFORD FIRE INSURANCE COMPANY, Assets	$1,500,000
HOME INSURANCE COMPANY, of New York, Assets	3,400,000
SECURITY INSURANCE COMPANY, of New York, Assets	2,000,000
PHŒNIX INSURANCE COMPANY, of New York, Assets	1,000,000
ARCTIC INSURANCE COMPANY, of New York, Assets	600,000
WASHINGTON INSURANCE COMPANY, of New York, Assets	600,000

CONNECTICUT MUTUAL LIFE INSURANCE COMPANY, of Hartford, Cond.

Policies issued on Freights, Cargoes, and Treasure, from and to all parts of the World. Voyage War Risks taken on Hulls.

Fire Insurance Policies issued on all kinds of Insurable Property in the Country or City. Losses payable in Gold Coin of the United States.

We represent the oldest and best Companies in the United States, and offer as favorable terms as any agency on this coast.

Losses paid immediately on adjustment.

BIGELOW & BROTHER,

17-6m General Agents.

A. ROMAN & COMPANY,

BOOKSELLERS, IMPORTERS and PUBLISHERS,

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Offer for sale a large and well-selected stock of Works on the Mechanical Arts,

Mining, Assaying, Metallurgy, Engineering, Architecture and Carpentry, Chemistry, Drawing, Agriculture, Geology, Mineralogy, etc.

☞All new works received as soon as published.☜

FOR SALE AT THE LOWEST PRICES.

17v11-1m ORDERS BY MAIL PROMPTLY AND CAREFULLY ATTENDED TO.

PALMER, KNOX & CO.,

Golden State Iron Works,

Nos. 19, 21, 23 and 25 First Street,

SAN FRANCISCO.

MANUFACTURE ALL KINDS OF

MACHINERY,

STEAM ENGINES AND QUARTZ MILLS

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S

NEW GRINDER AND AMALGAMATOR,

HEPBURN & PETERSON'S

AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

FULTON

Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

SAN FRANCISCO

Foundry and Machine Works,

N. E. Cor. Fremont and Mission streets,

Manufacturers of

Marine and Stationary Engines

Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.

—ALSO—

Wine, Cider, Cotton and Tobacco Presses of the latest Improved Patterns.

Brodie's Improved Patent WIND BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Baux & Guiod's Amalgamator and Separator; W. W. Tupper's Patent Sectional Grate Bar; Coal Oil Well Boring Machinery complete, on hand.

STEAM ENGINES AND BOILERS,

Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.

MACHINERY, OF ALL DESCRIPTIONS,

Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates.

6v11-1y DEVOE, DINSMORE & CO.

Novelty Iron Works,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY*. Send for a Circular.

E. T. STEEN.

105, 107 and 109 Fremont st., cor of Mission.

SAN FRANCISCO 21v9tfq

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, San Francisco. qy29-t

JOHN LOCHHEAD'S

STEAM ENGINE WORKS,

(Beale Street, near Mission Street,

SAN FRANCISCO.

Steam Engines of every description built to order—Marine Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer.

ALUM IN ALPINE.—The Monitor *Gazette* says that opposite the tunnel of the Monitor Consolidated Mining Company, high up in the hills of Alpine district, is a mine of pure alum; large masses of which, partly crystalized, but mainly in the form commonly known as burut alum, are found, and may be detected by the hand, having been formed by the oozing out of the mineral, and its accumulation by evaporation on the projecting rocks.

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Comet Petroleum Company.—Location of Works: Humboldt County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 13th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
S M Balch	1	25	$ 7 50
S M Balch	23	50	15 00
Warren J Chapman	2	12	3 60
R L Holman	3	13	3 90
Geo J Hughston	4	25	7 50
Geo J Hughston	5	25	7 50
B C Howard	6	50	15 00
B C Howard	7	300	90 00
Geo K Paul	8	50	15 00
Martha J Larrimore	14	100	bal 10 00
B C Howard	19	100	30 00
Geo J Hughston	24	50	15 00
J S Wertheimer	27	40	12 00
Geo W Menomy & Co	23	100	30 00
H Steele	33	200	60 00
William Green	35	50	15 00
J T Dean	38	100	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 13th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., at 626 Montgomery street, San Francisco, Cal., on Monday, the 4th day of December, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

L. CROSBY, Secretary.

Office, 36 Exchange Building, northwest corner Montgomery and Washington streets, San Francisco. no13

Keokuk Gold, Silver and Copper Mining Company, Clayton Mining District, Contra Costa County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of October, 1865, an assessment of ten (10) cents per share was levied upon the capital stock of said Company, payable on the 18th day of November, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, 308 and 310 Front street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

A. B. WINEGAR, Secretary.

Office, 308 and 310 Front street, San Francisco, Cal. oc21

N. B.—This assessment is re-advertised. nov18

Maria Silver Mining Company.—Location of Works: Chihuahua, Mexico.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 16th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
A Austin	177	10	$10 00
F J Herrmann	5, 168	30	30 00
John Weisman	6	10	10 00
G Buisele	7	5	5 00
Aug Schmitt	10	10	10 00
Jean Golly	10	10	10 00
J N Guillemin	18	50	50 00
Joseph Jaquot	24, 25	20	20 00
Charles Bontard	26, 27, 28	35	35 00
H Thomen	30	10	10 0
Philip Heuer	32	5	5 00
C Colischoun	34	60	60 00
G Bussol	35	50	50 00
L Mcgasson	37, 38	50	50 00
B Bertrand	40	10	10 00
M A Dumand	43	20	20 00
M L Weiss	44	40	40 00
P Blick	48	5	5 00
J Wellboff	10	10	10 00
L Thiele	53	10	10 00
Henry Shmitt	54, 59	35	35 00
V Squarza	55	20	20 00
Cas Fleig	57	10	10 00
Joseph Hug	60	25	25 00
D Bique	69	25	25 00
P R Schmidt	72, 156	35	35 00
L C Schmidt	73	10	10 00
Victor Hoffman	111	50	50 00
A L Rapp	113	30	30 00
J Veiller	166, 114	50	50 00
A Pavillier	121	25	25 00
A Montardier	122	10	10 00
M Mangels	123	5	5 00
M L Weiss	124	10	10 00
Henry Schmitt	126, 127	30	30 00
J Warshawsky & Co	135, 176	25	25 00
S H Pinnor	176	10	10 00
Alex Meyer	139, 150	10	10 00
Maria Poehlman	148, 169	10	10 00
W Shultze	157	5	5 00
J P Schmitz	161, 162	10	10 00
M Helneman	170	15	15 00

And in accordance with law, and an order of the Board of Trustees, made on the 16th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at No. 626 Montgomery street, San Francisco, Cal., on the 2d day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

AUGUST KUNAST, Secretary.

Office, 540 Washington street nov18

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

Oroville Gold, Silver and Copper Mining Company.—Location of Works: Oroville, Butte County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 7th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
S B Bissell	50	25	$25 00
S B Bissell	63	62	62 00
Calvin Brown	34	60	60 00
Frank E Brown	33	10	50 00
Richard Chenery	51	90	90 00
Chas A Morse	45	100	100 00
J E de la Montagnie	47	100	100 00
E C Doran	41	10	10 00
A Powell	24	50	50 00
J C Eldredge	21	20	20 00
Sarah J Winslow	49	10	10 00
C W Reilly	39	5	5 00
R P Lee	52	283	283 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at No. 626 Montgomery street, San Francisco, Cal., on the 2d day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

ROBT. P. LEE, Secretary.

Office, No. 434 California street, San Francisco. no18

United States Mining Company.—Location, Virginia, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 15th day of November, 1865, an assessment of fifty cents per share was levied on each and every share of the capital stock of said Company, payable immediately, in gold or silver coin of the United States, to the Secretary, at his office, or to F. A. MARSTON, Virginia, Nevada.

Any stock upon which said assessment shall remain unpaid on the 16th day of December, 1865, will be advertised as delinquent, and unless paid, will be sold on Saturday, the 30th day of December, 1865, to pay said delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. M. BUFFINGTON, Secretary.

Office, No. 10 Government House, corner Sansome and Washington streets, San Francisco, Cal. nov18

Wide West Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of November, 1865, an assessment of one dollar ($1) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, or to the Superintendent at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOSEPH GREEN, Secretary.

Office, 330 Davis street, corner of Washington street, San Francisco. no18

Wide West Mining Company, Esmeralda District, Esmeralda County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessments levied on the 18th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Joseph Aron	1.61	10	50 00
V Acker	2384	10	50 00
D Armstrong	2636	6	25 00
D Armstrong	2671	10	50 00
F Angel	2689	6	25 00
Joseph Bassett	1100	5	25 00
Joseph Bassett	2324	10	50 00
Alfred Borel	1686, 2106 10 ea	20	100 00
H Brannan	1452	1	5 00
R Bayerque	2477, 2478 10 ea	30	100 00
Borker & Rosenfield	2531	20	100 00
Borkor & Rosenfield	2527	10	50 00
Geo O Blake	2506, 2507 20-ea	40	200 00
Geo O Blake	2680	20	100 00
A W Burnham	2739	¾	3 75
Joseph Chadbourne	1310	10	50 00
H K Curtis	1524	5	25 00
J T Carter	bal 16.2	1¾	8 75
W T Coleman	bal 2129	½	2 50
W T Coleman & Co	2078	10	50 00
T W Colburn	2783, 2785, 2786 10-ea	30	150 00
T W Colburn	2787, 2788, 2789 10-ea	30	150 00
T W Colburn	2790, 2791, 2792 each	10	150 00
T W Colburn	2793, 2794, 2795 each	10	150 00
T W Colburn	2796	15	75 00
T W Coltura	2797	20	100 00
Thos Condon	2687	5	25 00
Thos Condon	2688	15	75 00
John Dunu	1049	1	5 00
J P Davis	2251, 2252 10 ea	20	100 00
J P Davis	2720, 27.1, 2452 10 ea	30	150 00
J P Davis	2.7 2	6	30 00
Antonio Descazo	bal 2473	2½	12 50
B Dreyins	2679	10	50 00
J L Eklof	2693	10	50 00
Mary Furger	1354	1	5 00
John Fine	1772	2	10 00
Robt H Fulton	bal 2153	2½	12 50
Henry Fischor	2730	2	10 00
P Fitz Hugh	2606	10	50 00
John Ferrie	2747, 2748, 2749 10 ea	30	150 00
John Ferrie	2752, 2755, 2756 10 ea	30	150 00
John Ferrie	2757, 2750 10-ea	30	150 00
John Ferrie	2774	10	50 00
John Ferrie	2761	3	15 00
John Ferrio	2776, 2777 10 ea	20	100 00
John Ferrie	2778, 2802 5-ea	10	50 00
H W Fortuae	2806	20	100 00
D Gonzales	2583	5	25 00
J E Garrett	2 55	10	50 00
I N Green	bal 2128	½	2 50
G S Gladwin	2700	10	50 00
Louis Gestlo	2409	20	100 00
J W Gardner	2591	5	25 00
J W Gardner	2600	10	50 00
C E Gibbs	2662	10	60 00
N E Grimes	2731	9	45 00
N E Grimes	2732, 2733 ½-ea	1	5 00
S Hubbard	744	3	15 00
H Hadler	bal 2015	3¼	16 25
Samuel J Hopkins	978	2	10 00
Jacob Hess	1083, 1090 1 ea	2	10 00
M Heineinann	2.60, 2.11 10 ea	20	100 00
John Hewston, jr	bal 1000	2	10 00
John Hewston, jr	bal 1597	1	5 00
J Herzberg	2408	7	35 00
J Herzberg	2309	10	50 00
T W Hackett	2674	5	25 00
T W Hackett	2664	2	10 00
T W Hackett	2669	10	50 00
John Harding	2514	10	50 00
Thos Hill, Trustee	2523	10	50 00
T W Hutchmond	2813, 2814, 2815 10 ea	30	150 00
Fred Jacn	2122, 2423, 2424 10-ea	30	150 00
Fred Kan	21.6, 2773 10 ea	20	100 00
G o R Jesse	1751	5	25 00
S Kline	bal 1280	¾	3 75
Cas Keyser	bal 2772	½	7 50
F Klosteman	26 5	20	100 00
Kate Kuy	2694	5	25 00
Theo le Roy	2 50	10	50 00
Theo le Roy	905	4	20 00
H Levy	1120	5	25 00
B Lulofs	1357, 1501 5-ea	10	5 00
B Lulofs	2446	11	55 00
B Lulofs	2447, 2448, 2449 10-ea	30	150 00
J Landsberger	2109	10	50 00
Csimou Lipman	2563	10	50 00
W O Laneuscin	bal 1970	2½	12 50
D S Lunt	2271	4	20 00
D S Lunt	2274	1	5 00
Chas Lumbard	2774, 2.72 10-ea	20	100 00
S H Meeker	258, 259, 328 10-ea	30	150 00
Chas Mayne	bal 1814	2	10 00
Chas Mayne	bal 1959	2½	12 50
Chas Mayne	bal 2043	3	15 00
Dan'l Murphy	1340, 1558 each	4	40 00
Dan'l Murphy	1396, 1491 each	5	50 00
Dan'l Murphy	1753	10	50 00
Dan'l Murphy	1940	15	75 00
Dan'l Murphy	2319	2	10 00
W Matheson	bal 1439	¼	2 50
A Myersou	1767	5	25 00
J Menu	2492	15	75 00
Louis Mermond	2497	5	25 00
J S Mitchell	2305, 2341 10-ea	20	100 00
E Martin	1814	10	50 00
Christopher Nelson	2753	2	10 00
V Nioly	2475	20	100 00
Thos Nelson	2565	20	100 00
Thos Nelson	2566	10	50 00
John O'Brien	2740	5	25 00
Pease & Grimin	2 49	10	50 00
Nathaniel Page	2264	20	100 00
Nathaniel Page	2265	10	50 00
Jas Phelan	1834	10	60 00
Jos Plaw	2608	10	60 00
J B Painter	2765, 2766, 2767 10 ea	30	150 00
J B Painter	2768, 2769, 2770 10-ea	30	150 00
S G Reed	1001, 1023 5-ea	10	50 00
Wm Ready	27 8	10	60 00
F Seibel	1178	5	25 00
P Sather	1318	10	50 00
J P Schmitz	bal 2626	1	5 00
C H Simpkins	2066	10	50 00
C A Schmitt	bal 2446	2½	12 50
C A Schmitt	2511, 2832 10-ea	20	100 00
Schultz & Van Bergen	2413	20	100 00
Schultz & Van Bergen	2144, 2145 2142 10-ea	30	150 00
John Schneider	2527	10	50 00
Chas E Scrantoa	2559	20	100 00
Theo E Smith	2572, 2762 10 ea	20	100 00
E L Smith	2651, 2653 10-ea	20	100 00
Z W Sparks	2799, 2800, 2801 10 ea	30	150 00
C Stevens, trustee	2816	10	50 00
A C Tietman	2174, 2175, 2177 10-ea	30	150 00
Oliver Taylor	2358	9	45 00
Oliver Taylor	2550, 2649, 2663 10-ea	30	150 00
Oiver Taylor	2540	6	30 00
Oiver Taylor	26 6	5	25 00
Oiver Tylor	2703, 2704, 271 6 10-ea	30	150 00
Chas Upton	663	5	25 00
A Unger	2023	10	50 00
Unger Bros	2142	10	50 00
Unger Bros	2242	20	100 00
D Wetgan	1429	2	10 00
A Wolf	bal 2145	¾	3 75
A Wolf	bal 2 54	¼	1 25
E J White	2808, 2809, 2810 10-ea	30	150 00
E J White	2811, 2812 10-ea	20	100 00
T E Wilke	2735, 27 6 10-ea	20	100 00
Geo O Whitney	2782	10	50 00
J Van Bergen	144, 327 10-ea	20	100 00
Danl Shato	2253	10	50 00

And in accordance with law, and an order of the Board of Trustees, made on the 18th day of October, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the salesrooms of John Middleton & Son, No. 404 Montgomery street, San Francisco, on Monday, the 4th of day December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

S. P. DAVIS, Secretary.

Office, No. 103 California street, San Francisco. no18

Yuba Gold and Silver Mining Company, Brown's Valley, Yuba County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of November, 1865, an assessment of two dollars and fifty cents ($2 50) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, No. 210 Pine street, up stairs, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

P. R. RINGSTROM, Secretary.

Office, 210 Pine street.

N. B.—The above assessment is for the purchase of Machinery, nov18

TO QUARTZ MINERS.

Hinkle's Centrifugal Pulverizer and Amalgamator!

THE ATTENTION OF MINERS IS RESPECTFULLY requested to HINKLE'S CENTRIFUGAL PULVERIZER AND AMALGAMATOR, now manufactured and to be seen in operation at the NOVELTY IRON WORKS of Mr. E. T. Steen, Nos. 37 & 39 Fremont street, between Market and Mission streets.

This machine is the best in the State for the purpose of Pulverizing and Amalgamating ORES. The whole machine made entirely of iron, will not exceed One Ton, and no piece of it will exceed 200 pounds, which makes it very convenient for transportation to remote districts. It will work Two Tons of Rock per day.

Mr. Hanson, who is running one of the machines, is an experienced Amalgamator, and will receive Ores at the above named place, and extract the metals and furnish assays for all persons wishing the same. The Subscriber manufactures a HAND MACHINE for Miners engaged in prospecting, which will work 50 pounds of ROCK at a time, and which will weigh about 175 pounds.

The Pulverizer and Amalgamator works Rock of the size of a grain of corn to an impalpable powder. Apply to

PHILIP HINKLE,

At the Novelty Iron Works, Nos. 37 & 39 Fremont street.

15-1m

Mining Notices—Continued.

New Mining Advertisements to be found under another heading.

Astor Gold and Silver Mining Company, Gold Hill, Storey County, State of Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 0th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Ware, G W	129 to 131 inc	75	$112 50
Ware, G W	128	20	30 00
L Joseph	73	10	15 00

And in accordance with law, and an order of the Board of Trustees, made on the 0th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at 626 Montgomery street, San Francisco, Cal., on Monday, the 27th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco. nov11

Bolinas Petroleum Company, Bolinas Township, Marin County, California.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment levied on the 2d day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Borker & Rosenfield	20	100	$50 00
Butler, W	59	10	50 00
Devaul, Jno	bal 64	80	15 00
Finley, H	34	95	47 50
Fox, H b	10	50	25 00
Foster, L J	18	25	12 60
Higgins, D	24, 31	35	17 50
Levy, E	42 to 57 inclu	25	12 50
Parker, A P	29, 32	48	24 00
Ramsey, J D	6	5	2 50
Rubi, Jno	4	68	2 00
Smith, H R	27	25	12 50
Sharp, W H	60	10	5 00
Vanderwater, W	not issued	100	50 00
Wilder, D D	33	12	6 00
Washburn, Jas	68	65	27 50

And in accordance with law and an order of the Board of Trustees, made on the 2d day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, 611 Clay street, Room 8, San Francisco, on the 20th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

nov4 W. L. KIRBY, Secretary.

Chloride Ledge Gold and Silver Mining Company. Location of mine, Blue Mountain District, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 16th day of October, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold coin, to the Secretary, at the office of the Company, No. 606 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 18th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 2d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

R. H. SMITH, Secretary.

POSTPONEMENT.—The advertisement of stock delinquent on the above assessment is hereby postponed until Saturday, the 25th day of November, 1865, and the sale thereof until Saturday, the 9th day of December, 1865. By order of the Board of Trustees.

nov18 R. H. SMITH, Secretary

Office, No. 606 Montgomery street, San Francisco. oc21

Chipioneua Mining Company, District of Ures, Sonora, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of November, 1865, an assessment of five dollars ($5) per share was levied upon the capital stock of said Company, payable on the 6th day of November, 1865, in United States gold and silver coin, to the Secretary, 318 California street, (up stairs.)

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

JOHN F. LOHSE, Secretary.

Office, 318 California street, San Francisco, Cal. nov4

Camargo Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of October, 1865, an assessment of five dollars ($5) per share was levied upon the capital stock of said company, payable immediately, in United States currency, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid before Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. oc21

To Blacksmiths.

An excellent, strong lad, from the interior, 17 years of age, desires to learn the Blacksmith's trade. His parents wish him to engage with a reputable firm, and learn bl thoroughly. Address, or inquire at the office o the MINING AND SCIENTIFIC PRESS. 2v11tf

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

Eagle Quartz Mining Company—Location of Works, Amador County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 24th day of October, 1865, an assessment of seventy-five (75) cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, 605 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 11th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

JOHN M. BURNETT, Secretary.

Office, 605 Montgomery street, San Francisco, Cal oc28

Emilia Mining Company, State of Guerrero, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 26th day of October, 1865, an assessment of twenty-five (25) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, No. 55 Montgomery Block, San Francisco, Cal

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, San Francisco, Cal. oc28

Germania Mount Diablo Coal Mining Company, Mount Diablo District, Contra Costa County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 3d day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
M R E Becker	5	1	$3 00
Ph H Graser	11	1	3 00
Gust Leipnitz	19	1	3 00
Louis Westerfeld	34	1	3 00
Louis Westerfeld	35	1	3 00
Wm Westerfeld	36	1	3 00

And in accordance with law, and an order of the Board of Trustees, made on the 31 day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at the auction rooms of Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on Wednesday, the 22 l day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

E J. PFEIFFER, Secretary.

Office, 210 Post street, near Dupont. nov4

Evoca Consolidated Copper Mining Company: Location of Works—Court Hill District, near Black's Ferry, Bel Norte County, California.

NOTICE.—There are delinquent upon the following described Stock, on account of Assessment levied on the 5th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	Number of Certificate.	Number of Shares.	Amount.
E S Morison	13	3	$1 50
A H Brockway	58	50	25 00
A H Brockway	59	50	25 00
A H Brockway	60	12	0 00
Wm B Cooke	76	12	6 00
J W Tucker	82	112	56 00
Sarah O'Donnell	99	12	6 00
Sarah O'Bonnell	100	25	12 50
Sarah O'Bonnell	101	25	12 50
Sarah O'Bonnell	102	25	12 50
Sarah O'Donnell	103	25	12 50
A O'Neil	109	12	6 00
A O'Nell	110	50	25 00
A O'Neil	111	50	25 00
P B Cornwall	143	10	5 00
P B Cornwall	144	10	5 00
P B Cornwall	145	10	5 00
P B Cornwall	146	10	5 00
P B Cornwall	147	10	5 00
P B Cornwall	148	12	6 00
J L Mooly	115	112	56 00
J L Mooly	125	88	44 00
E B Holmes	123	25	12 50
E B Holmes	120	25	12 50
R C Rogers	136	112	56 00
J B Baker	151	20	10 00
W H Bernard	186	56	bal due 14 00
D R Beckford	204	20	10 00
Jas M Olmstead	153	3	1 50
M B Fowler	not issued	20	bal due 5 00
Chas Ashton	not issued	20	bal due 5 00
Chas Yeomans	184	36	18 00
Chas Yeomans	185	20	10 00
Chas Yeomans	101	50	25 00
Chas Yeomans	201	50	25 00
E Barnes	193	15	7 50
A Hower	194	5	2 50
F H Rogers	198	12	6 00
H H Oliphant	200	80	43 00
H D Oliphant	199	112	56 00
G W Guthrie	168	19	9 50
G B McAneny	171	62	31 00
G B McAneny	172	100	50 00

And in accordance with law, and an order of the Board of Trustees, made on the 5th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, at No. 302 Montgomery street, Room No. 6 (third floor), San Francisco, Cal., on the 20th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

nov4 CHARLES E. ABBOT, Secretary.

Lost or Stolen.

There was lost, or stolen, from our collection of minerals, etc., at the Mechanics' Fair, a sample of the late Telegraph Cable. The lost piece is three inches in length, by one and one-sixteenth in diameter; brass ferrel on each end with raised letters, viz: "Glass, Elliott & Co., Contractors, London." Any person who will return the article to this office, or give information of its whereabouts, will be suitably rewarded.

DEWEY & CO.,
Publishers Mining and Scientific Press.

George Washington Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

Assessment No. 8.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 6th day of November, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, only.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 26th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, 308 Montgomery street, San Francisco. nov11

Goodwin Gold and Silver Mining Company, Simpson Park Mining District, Lander County, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of November, 1865, an assessment of two dollars per share was levied upon the capital stock of said Company, payable on the 11th day of November, 1865, in United States gold and silver coin, to the Secretary, corner of Battery and Washington streets, San Francisco, Cal., or to S. G. BAKER, Austin, State of Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

E. V. JOICE, Secretary.

Office, corner Battery and Washington streets. nov11

Hornet Gold and Silver Mining Company. Location of works, Lander County, Nevada.

Notice is hereby given, that in accordance with an order made this day by the Board of Trustees of the Hornet Gold and Silver Mining Company, there will be sold at public auction, at the office of the Company, 402 Front street, by Jones & Bendixen, auctioneers, on Tuesday, the 21st day of November, 1865, at 1 P. M. of that day, to the highest bidder, for cash, in United States coin, so many shares of the capital stock of said company standing in the names of the following shareholders as will be necessary for the payment of an assessment of fifty cents per share, duly levied thereon by the Board of Trustees, on the 15th day of February, 1864, together with expenses of advertising and sale, to wit:

Names.	No. Certificates.	No. Shares.	Amount.
Argyras, B	88	5	$2 50
Addleberger, C F	8, 9, 10 each	10	15 00
Addleberger, C F	14	5	2 50
Baker, Fred	28, 29, 30, 32 each	10	20 00
Baker, Fred	35, 36, 37 each	5	7 50
Brown, W J	86	20	10 00
Casen, J D	76	10	5 00
Casen, J D	77	12½	6 25
Coddington, Geo W	80	20	10 00
Kerley, J C	38, 39 each	20	20 00
Kerley, J C	40, 41, 42 each	10	15 00
Kerley, J C	43	5	2 50
Kerley, J C	44	6	3 00
Massey, J M	53, 55 each	22½	22 50
Massey, J M	56	12½	6 25
Massey, J M	57	20	10 00
Massey, J M	60	10	5 00
Massey, J M	62	5	2 50
Rumsey, L W	72, 73, 74 75 each	10	20 00
Roman, Hermaa	87	19	0 50
Simpers, Geo W	81	20	10 00
Simpers, Geo W	82, 83, 84 each	10	15 00
Todd, Jos	1, 2, 3, 4, 5 each	10	25 00
Todd, Jos	8	12½	0 25
Todd, Jos	7	5	2 50
Tureman, C W	78	20	10 00
Tureman, C W	78, 80 each	10	10 00
Welton, E W	48, 49, 50, 51, 52 each	10	25 00
Wade, J P	63, 64 each	5	5 00
Wade, J P	65, 66, 67 each	10	15 00
Campbell, M	89, 90 each	5	5 00

N. C FASSETT, Secretary.

Office, 402 Front street, San Francisco.

San Francisco, Oct. 19, 1865. oc21

Jefferson Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 2, levied September 25, 1863, of fifty cents; No. 3, December 11, 1863, of fifty cents; No. 4, February 4, 1864, of one dollar, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. 2.	No. 3	No. 4.	No. Cert.	No. shs.	Amt.
W K Smith	$10	$10 00	$20 00	4	20	$ 40 00
L B Seaver bal	15	15 00	30 00	23, 20	40	60 00
J T Cassell		5 01	10 00	10	10	15 00
Clarke & Blakeley		4 63	9 25	44	9¼	13 88
S T Curtis		40 00	80 00	95, 102 ea	10	120 00
S T Curtis		6 25	12 50	103	12½	18 75
Jas McGahey		3 12	6 25	22	6¼	9 37
Chas Pinkerton		4 62	9 25	31	9¼	13 87
J S Brown			11 00	130	11	11 00
J S Brown			9 00	140	9	9 00
S O Clifford			12 50	112	12½	12 50
S O Clifford			25 00	131	25	25 00
P F Doling			20 00	3	20	20 00
A J Donzel			10 00	5	10	10 00
G H Faulkner			5 00	41	5	5 00
Jos Gilbert			20 00	65	20	20 00
Jos Gilbert			20 00	66	20	20 00
Jos Gilbert			20 00	67	20	20 00
Jos Gilbert			6 00	135	6	6 00
W B Gilham			7 00	133	7	7 00
W B Gilham			5 00	40	5	5 00
N B Jacobs & Co			10 00	42	10	10 00
J L James			15 00	143	15	15 00
H V Rex			12 00	134	12	12 00
J O Sweetland			5 00	129	5	5 00
H C Woodford			20 00	12	20	20 00
N A Watson			10 00	115	10	10 00
N A Watson			25 00	144	25	25 00
N A Watson			46 50	147	40½	46 50

And in accordance with law and an order of the Board of Trustees, made on the 31st day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 1st day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. nov4

Jewett Gold and Silver Mining Company, Gold Hill District, Storey County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of an assessment levied on the 11th day of October, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
J Naphtaly	77	100	$100 00
S R Harris	88	20	20 00
S R Harris	89	20	20 00
Chas S Bowden	96	25	25 00
Chas S Bowden	97	10	10 00
Gerard Delney	1 0	18	8 00
Jacob Harty	139	20	20 00
C E McNear	not issued	82	82 00

And in accordance with law, and an order of the Board of Trustees, made on the 11th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, at the sales-rooms of Maurice Dore & Co., No. 327 Montgomery street, on the 25th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

nov11 G. M. BURNHAM, Secretary pro tem.

Knox Gold and Silver Mining Company, IXL Lode, Silver Mountain District, Alpine County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 7th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
C W Edgerly	7	10	$ 4 00
C W Evgerly	8	10	4 00
C W Edgerly	14	25	10 00
C W Edgerly	15	5	2 00
C W Edgerly	38	5	2 00
A L Knox	18	5	2 00
A L Knox	not issued	115	46 00
R Snodgrass	not issued	72½	29 00
P A Owens	not issued	72½	29 00
E W Travers	not issued	72½	29 60
J F Myers	not issued	62½	25 00
Jos Harris	25	10	4 00
A J Kent	27	5	2 00
R Thompson	28	5	2 00
I M Wentworth	29	10	4 00
J F Staniels	30	10	4 00
J F Staniels	31	5	2 00
T A Imffield	32	5	2 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of John Middleton & Son, 404 Montgomery street, San Francisco, on the 25th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

SAM. P. HOWES, Secretary.

Office, No. 2 Odd Fellows' Hall, San Francisco. nov11

La Favorita Mining Company, Montezuma District, Sonora, Mexico.

SAN FRANCISCO, Oct. 25, 1865.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 25th day of October, 1865, an assessment of fifty cents per share was levied upon the capital stock of said Company, payable on the 26th day of October, 1865, in gold coin of the United States of America, to the Secretary, at the office of the Company, 429 Sacramento street, in the City of San Francisco, Cal.

Any stock upon which said Assessment shall remain unpaid on the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 9th day of December, 1865, to pay the delinquent assessment, together with the costs of advertising and expenses of sale. By order of the Board of Trustees.

E. WASSERMAN, Secretary.

This assessment will liquidate the Company's indebtedness in full.

oc28 E. WASSERMAN, Secretary.

Madison Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment No. 3, levied on the 27th of November, 1863, of fifty cents per share, and No. 4, levied February 4th, 1864, of one dollar per share, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. 3.	No. 4.	No. Cert.	No. Shs.	Amt.
B C Austin	$12 50	$25 00	68	25	$37 50
A J Bryant	2 50	5 00	99	5	7 50
S O Clifford	4 50	9 00	51	9	13 50
S O Clifford		45 00	53	45	45 00
S O Clifford		5 00	54	5	5 00
S O Clifford		5 00	56	5	5 00
S O Clifford		5 00	57	5	5 00
S O Clifford		5 00	58	5	5 00
S O Clifford		71 50	63	71½	71 50
S O Clifford		14 00	118	14	14 00
Chas G Going	bal	2 25	101	6½	2 25
N B Jacobs	5 00	10 00	75	10	15 00
Chas G Going		10 00	104	10	10 00
Chas G Going		10 00	105	10	10 00
P McAllister		25 00	16	25	25 00
P McAllister		25 00	17	25	25 00
P McAllister		25 00	18	25	25 00
P McAllister		25 00	19	25	25 00
P McAllister		10 00	21	10	10 00
J C Morrison Jr	2 50	5 00	98	5	7 50
D P McHarg		10 00	106	10	10 00
C M Pryor	20 00	40 00	48	40	60 00
C M Pryor		5 00	37	5	5 00
B L Plummer		10 00	83	10	10 00
L A Spitzer		5 00	126	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 1st day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. nov4

A Business Compliment.

PETALUMA, Oct. 4, 1865.

MESSRS. BEWEY & CO.—Gentlemen: Your note informing me that my patent for Crushing and Baling Machine is ordered to issue is at hand. Please accept my thanks for the prompt and business-like manner with which the case has been conducted, and inclosed find twenty dollars for balance Government fees. Respectfully, etc.

JACOB PRICE.

Mount Davidson Gold and Silver Mining Company, Virginia District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of November, 1865, an assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 3d day of November, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 20th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

G. PARDOW, Secretary.

Office, 53 Montgomery Block, San Francisco. nov4

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine County, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of October, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable on the 31st day of October, 1865, in United States gold and silver coin, to the Secretary, at his office, No. 55 Montgomery Block, City and County of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, southeast corner of Washington and Montgomery streets, San Francisco. nov4

Segregated Belcher Mining Company, Gold Hill District, Storey county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of October, 1865, an assessment of four dollars per share was levied upon the capital stock of said Company, payable on the 28th day of October, 1865, in United States gold and silver coin, to the Secretary, 318 California street, City and County of San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 9th day of November, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOHN F. LOHSE, Secretary.

Office, No. 318 California street (up stairs), San Francisco, California. oc28

Santa Cruz Petroleum Oil Works Company, Santa Cruz County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 23d day of October, 1865, an assessment (No. 14) of forty cents per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, R. WEGENER, 415 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 25th day of November, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Thursday, the 14th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale By order of the Board of Trustees.

R. WEGENER, Secretary.

Office, 415 Montgomery street, San Francisco, Cal. oc28

Table Mountain Copper Mining Company, Stanislaus District, Calaverns County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 1st day of November, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, in San Francisco, or to J. M. PIKE, Superintendent, at Copperopolis.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 18th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

EDWARD C. LOVELL, Secretary.

Office, No. 436 Jackson street, San Francisco, California. nov4

Office Zenith Gold and Silver Mining Company, Mountain Rauch District, Calaveras County, California.

At a meeting of the Board of Trustees, held November 6th, 1865, it was "Resolved, That all previous assessments levied upon the stock of this Company, being

No. 1, September 24, 1863—25 cents per share;

No. 2, October 13, 1863—20 cents per share;

No. 3, December 2, 1863—30 cents per share;

No. 4, January 8, 1864—$1 per share;

No. 5, May 3, 1864—50 cents per share;

No. 6, August 15, 1864—50 cents per share;

be, and the same are hereby annulled and declared void, and that all moneys paid to the Company on said assessments be placed to the credit of the stock on which it was paid, and apply as a credit upon the next assessment levied by the Company. By order of the Board of Trustees.

M. G. ELMORE, Secretary.

Office, No. 7 Stevenson Block, San Francisco. noll 4w

Zenith Gold and Silver Mining Company, Mountain Rauch District, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 6th day of November, 1865, an assessment of three dollars and twenty-five cents ($3.25) per share was levied upon the assessable stock of said Company, payable immediately, in United States gold coin, to the Secretary, No. 7 Stevenson Block, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 23d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

M. G. ELMORE, Secretary.

Office, No. 7 Stevenson Block, San Francisco. nov11

IN DEBT.—It is a common practice in this country for men and women to thrust their hands down into the *Future*, and draw from their present use upon their constitutional resources. They live, as far as physical vigor is concerned, constantly in debt. Their whole life is mortgaged for present enjoyment, and death forecloses and sells them out, and they pass away untimely to that "bourne from which no traveler returns."

A LITTLE girl washing linen in a brook in Baron Rothschild's park, at Schilleredorf, was seized and dangerously lacerated by a huge pike. The child was rescued by a gardener, who was obliged to cut off the fish's head.

FRENCHY.—An entirely subterranean theater is being constructed in Paris, at a cost of three millions of francs. It is expected that its coolness will be a great attraction in summer. Very much of what is customary in Parisian theaters had better be as far under the ground as is possible.

THE total annual products of coffee in the world is set down, in a recent circular, at an average of about six hundred and seventy-two million pounds, or about three hundred thousand tons. Half of this is produced in Brazil.

THIRTY-SEVENTH.—On and after the Fourth of July next there will be thirty-seven stars on the American flag—Colorado State will then be added.

THE brains of the gigantic deceased elephant, Cleopatra, were found to weigh fifteen pounds. They are preserved in a glass case.

Deserved Testimonial..

GRIZZLY FLAT, Oct. 18, 1865.

MESSRS. HUNGERFORD & HENDY—*Gentlemen:* We have run your Concentrator for several days past, in our 5 stamp Mill, and, as far as can be ascertained at present, it is a perfect success. When running at the rate of from two hundred and ten to two hundred and twenty-five revolutions per minute, we have lost neither quicksilver nor sulphurets. Formerly, when using copperplate riffles and blankets, we found that in spite of the utmost precaution, quicksilver would escape over them all. Wishing you all success, we remain Your obedient servants,

E. A. BIGLER.
S. F. DAVIS.

17v11qy

Spectacle Emporium.

Purchase none but perfect Spectacles adapted to your sight, from

C. MULLER,
OPTICIAN,

No. 3 Montgomery street, Masonic Temple, San Francisco. Old Frames reset with suitable Glasses or Brazilian Pebbles. 15v11-2m

REMOVAL!

R. WEGENER,
Accountant and Mining Secretary
Has removed to
No. 415 Montgomery Street—west side,
Between Sacramento and California sts.,
6v10 SAN FRANCISCO.

HUTCHINSON'S
Wine and Cider Mills.
FOR SALE,

THE EXCLUSIVE RIGHT FOR CALIFORNIA AND OREgon, or both, to Hutchinson's Wine and Cider Mills and Presses. To a person of small capital an unparalleled opportunity for a most profitable investment offers.

Apply to
A. T. DEWEY,
Mining and Scientific Press office.
Or to ISRAEL W. KNOX,
19v11tf Golden State Iron Works, San Francisco.

Copper, Lead, Gold, Silver,
Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,
Agent for Townshend, Wood & Co., Swansea,
No. 406 California Street, San Francisco.
15v10-3m

MARTIN & CO.,
Office, Stevenson House,
Corner California and Montgomery streets (up stairs).

WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES,

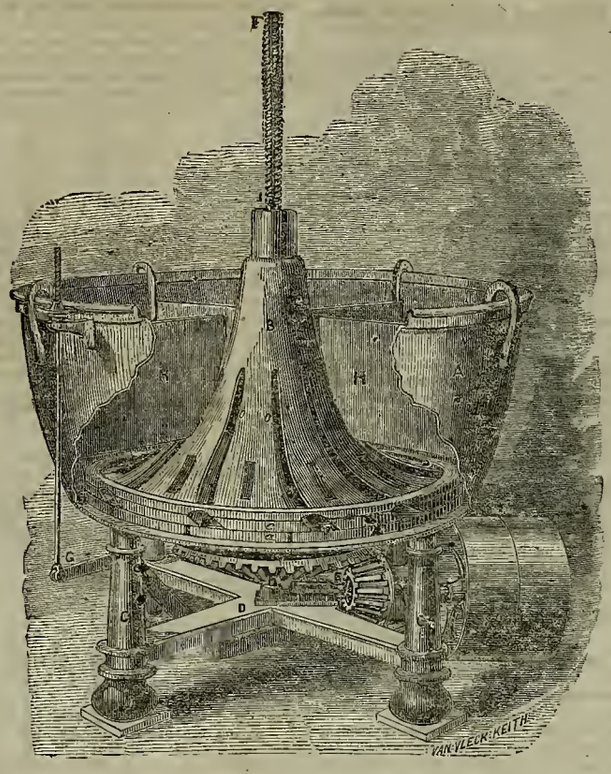
Assaying eight per cent. and upwards of Copper to the

We will make advances upon Ores of Copper.
San Francisco, Post Office Box 1259. 22

VALUABLE
PATENT RIGHT
FOR SALE.

The patent right for the United States of a valuable invention can be secured at a bargain by applying at this office. The article is one of general application throughout civilization.

DEWEY & CO., Publishers.



THE EXCELSIOR
GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

Union Iron Works and Golden State Iron Works,
WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.

EUREKA
PATENT BLASTING POWDER.
Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets. Room No. 9, with San Francisco Chemical Works,

CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2v11qy

WILLIAM PENROSE,
Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,
Is prepared to buy in any quantity
COPPER, SILVER, GOLD, LEAD
AND OTHER VALUABLE ORES;
Also Lend Bars Containing Gold and Silver,
☞ Full value paid on delivery in this City.—☜
Address Lock Box No. 992, P. O., San Francisco. 25v10

CLOTHING MADE FROM
CALIFORNIA CLOTH,
For Wholesale and Retail Trade,
ALSO, CLOTHING MADE TO ORDER,
AT QUINCY HALL,
Nos. 515, 517 and 519 Washington Street,
SAN FRANCISCO, CAL.
19v11-3m

To Mining Companies.

A GENTLEMAN OF MUCH EXPERIENCE AS A MINing Superintendent, in England, Spain, and on the Pacific coast, and one intimately acquainted with every department of mining, and with nearly every class of mineral, is desirous of securing a position as Superintendent of some mining operation in California or Nevada. The applicant was for four years Superintendent of the New Almaden Quicksilver Mine, in this State. The best of reference given on application at this office.

San Francisco, Oct. 12, 1865 25v11tf.

THE STYLE
—FOR—
Fall and Winter, 1865,
Will be introduced Aug. 26, at
MEUSSDORFFER'S
HAT MANUFACTORIES,
Nos. 635 & 637 Commercial st., San Francisco,
No. 125 J st., bet. Fourth & Fifth, Sacramento.
Corner D and Second Streets, Marysville.12v11

WE ARE NOW OFFERING
OUR IMMENSE STOCK
—OF—
Fine Custom Made Clothing
—AND—
Gents' Furnishing Goods
AT PRICES THAT DEFY COMPETITION.
Our Stock of Clothing Consists of
ALL THE LATEST STYLES
BOTH OF MATERIAL AND FINISH.
A Large Assortment of
Trunks, Valises, Carpet Bags, Blankets, Etc.,
AT EXTREMELY LOW PRICES.
J. R. MEAD & CO.,
8v10 Cor. of Washington and Sansome streets.

SAN FRANCISCO
CORDAGE MANUFACTORY.
CONSTANTLY ON HAND,
A Large and Complete Assortment
—OF—
MANILA CORDAGE,
FOR MINING PURPOSES.
—ALSO—
WHALE LINE, BALE ROPE, ETC.,
Manufactured from Pure Manila Hemp.
Hoisting Ropes for Deep Shafts,
—ALSO—
Lines for Ferry Boats,
Manufactured to Order.
Office at **TUBBS & CO.'S,**
Nos. 611 and 613 Front street.
Manufactory at the Potrero. 14v10

JOHN TAYLOR & CO.,
—IMPORTERS AND DEALERS OF—
ASSAYERS' MATERIALS,
Druggists' & Chemists' Glassware,
Photographic Stock, Etc.
512 and 514 Washington Street,
SAN FRANCISCO.

WE are receiving direct from MESSRS. LAND & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco March 6, 1865 11v10-tf

CHARLES BERNARD,
MANUFACTURER AND DEALER IN
Family Chartres Coffee,
AND SPICES OF ALL KINDS,
No. 707 Sansome street, cor. Cold, bet. Jackson & Pacific.

First Premium Awarded
BY THE MECHANICS' INSTITUTE,
FOR BEST COFFEE AND SPICES.

The proprietor having introduced steam power in his Manufactory, has now increased facilities to supply the trade and the public in general. All articles from his establishment are guaranteed to be pure and unadulterated. The public are respectfully invited to call and convince themselves. Country orders promptly attended to.
15v11 3m

OIL WELL BORING.
J. SEVENOAKS,
Contractor
For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1729 San Francisco. 2v11

LEHIGH COAL.
200 Tons Large Lump Lehigh Coal
Now on Hand.
I am also in constant receipt of
LEHIGH COAL,
And will be able to supply it always
At the Lowest Market Price.
JAMES R. DOYLE,
20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

A LITTLE BIRD RETURNS TO ITS CAGE.—The Stockton *Independent* relates a pleasing incident, as follows: "Sometime in May last Mr. Warder, pianist in this city, liberated four linnets—two gray and two green—from their cages in his room, and sent the little warblers out 'in the wide world' to take care of themselves. Imagine his surprise when one of the birds, more tame than the others, returned to its old home in Corinthian Block, on Tuesday morning last, and forthwith took possession of the cage it formerly occupied. At first Mr. Warner thought it was some estray from some dwelling in the city, but upon further examination it was found it was 'his own Bob.' This he knew from the fact that at one time in the attempt to cut a small string from the bird's foot, the top of one of its toes was accidentally clipped off. Recognizing it by its foot, Mr. W. called its name, and it immediately perched upon his extended hand as it had often done heretofore. The bird is now doubly endeared to its owner."

TAXES in England are profitable to the Government. From the smoking and drinking habits of the people, England derived more than one third of her whole revenue. is cited as proof that these taxes produce adulterations and drunkenness instead of reform.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. The Mining and Scientific Press Patent Agency has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

To Printers.

We have for sale, at a bargain, a Second-hand Half-Medium (largest size), Baugles' Engine Job-Printing Press, of most approved pattern. It is in excellent condition, and warranted to work as good as new. Apply soon, at the office of the MINING AND SCIENTIFIC PRESS. 19v11tf

Machinery.

NOTICE TO MINERS.

NEW QUARTZ MILL.

THE ATTENTION OF ALL ENGAGED IN MINING IS called to Finchery's unrivaled Mining Machines, consisting of his celebrated Turbine Water Wheel, which took the First Premium at the Mechanics' Fair at San Francisco for 1864; his Cracodile Quartz Crusher; his Pulverizer; and his Improved Freiberg Amalgamating Barrel; altogether forming the most complete and effective Quartz Reducing and Amalgamating Mill now in use. This mill can be put up at less cost, run with less power, and accomplish more work, than any other now in use.

B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast, amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. B. FAUCHERY, Engineer.
24v9

SAVE YOUR BOILERS AND FUEL.

ONE-EIGHTH OF AN INCH OF DEPOSITON ON the fire surface of a boiler takes THIRTY PER CENT of the steam generating power from that boiler, and, of course, wastes thirty per cent. of the fuel; and, what is a greater misfortune, it keeps the water from the plates and flues, causing them to scorch, blister and burn, destroying the boiler, and too often human lives.

I Have a Compound For Sale

That I have used with complete success in every instance, and without delaying the running of machinery or injuring the boilers in any manner, and at a cost of five dollars the boilers can be made as clean as when they were new.

Apply by letter, or personally, to

JOHN MAILER,

Engineer of Pioneer Flour Mills, No. 515 Market street above First (opposite the Oriental Hotel), San Francisco
23v10

HUNTER'S

PREMIUM

CONCENTRATOR, AMALGAMATOR

AND SEPARATOR,

Awarded a Silver Medal at the late Mechanics' Fair.

HUNTER'S CONCENTRATOR CAN BE SEEN IN OPERation daily at the Novelty Iron Works, Fremont street. Parties wishing to purchase Concentrators will find it to their advantage to examine the above machine before purchasing elsewhere, for the following reasons:

1st. It will work the sands from a 5-stamp battery, and save from 10 to 20 per cent. more sulphurets than any machine built on the Pacific coast.

2d. The Sulphurets are washed clean, containing less than ten per cent. of sand.

3d. The waste tree gold and amalgam is amalgamated on the copper plates; no loss of ground mercury and scarcely a trace of metal passes off with the sand.

4th. Its simplicity is a sufficient recommendation for its general use as a Concentrator. The variation of speed in a Quartz Mill does not effect the working of the Machine. The same was demonstrated at the late Mechanics' Fair, which the greatest IRREGULARITY OF SPEED the best of results were given.

5th. There is no clogging or stopping to clean out the sulphurets and sand; consequently no waste from any inattention on the part of the attendant.

6th. In exhibiting the working of the machine (it is not run empty), all classes of ores and tailings, from 50 pounds and upwards, are concentrated that parties may see fit to test the machine with.

Give it a trial, and satisfaction is guaranteed. All orders and any information required, address,

ANDREW HUNTER,

Novelty Iron Works, Fremont st., San Francisco,
15v12-3m Or to E. T. STEEN, Agent.

Hepburn & Peterson's

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada Territory; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant st. bet. 3d and 4th. Illustrated in the Mining and Scientific Press, April 9th 864.

HEPBURN & PETERSON.
mv8 3m*

BLAKE'S

QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA, WASHOE, ENGLAND, FRANCE,

— AND —

THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,

Box 2077 San Francisco Post office.

CHAS. T BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.
4v10

ATTENTION, MINERS!

LINSCOTT'S PATENT

CHAMBER DRILL.

Great Improving in Blasting.

W. B. LAKE

Has taken the sole agency for the manufacture and sale upon the Pacific Coast of this valuable article, the object of which is to cut a chamber at the bottom of an ordinary drill-hole (as will be understood on reference to explanation of cut), giving more than double the effect in blasting.

D is the shaft of drill, forty-five inches in length. B represents the cutters extended after a blow has been given. The lower portion of B is a guide plate ⅜ inch thick, holding the cutters in place and allowing them to glide in and out freely, the surface of the rock preventing their falling out and securing their return. When closed the edges of the cutters protrude about 1.16 inch only. As the drill descends the force slide A strikes the bottom of the hole and a slight blow drives its wedged shaped head, C, upward, forcing the cutters upward and outward by double acting wedge power. Face of the cutters 1⅜ inches in length, diamond edged. There are but four pieces in all, two of which, the cutters, are detached.

Price of one drill with two sets of cutters, $35. Extra cutters, $5 per set.

Persons wishing further information about the working of this labor and money saving article, will please send for circulars containing full particulars, which will be furnished gratuitously upon addressing W. B. LAKE, General Purchasing and Advertising Agent, Room 28 Government House, San Francisco. 2v11

BAUX & GUIOD'S

Separator & Amalgamator

Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combining SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed in work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jeffersonian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crail's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Heugh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,

Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8-6df

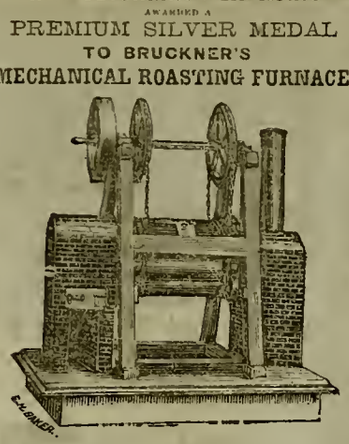
The Mechanics' Institute

AWARDED A

PREMIUM SILVER MEDAL

TO BRUCKNER'S

MECHANICAL ROASTING FURNACE.



Parties wishing to erect such Furnaces, are requested to leave their orders with

T. KALLENBERG,
12v11 416 Market street, San Francisco.

HUNT'S

IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN

HORSE POWER

For Sawing Wood,

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,

No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

HUNT'S PATENT

Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,
7v10 28 Second street, San Francisco

DENIS WHELAN,

Fashionable Boot Maker

REPAIRING NEATLY DONE, AT SHORT NOTICE.

No. 17 Fourth Street,

Near Market street, San Francisco.

15v10-1m*

Stevens' Pressure Packing.

Patented March 7th, 1865,

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

STEVENS' PACKING has the advantage of being cheaper in first cost than the ordinary packing, and can be applied to old style pistons with very little alteration or detention. In place of testimonials, the Patentee requests of those who are using the old spring packing to inquire of the owners of the various engines which now have this packing in use—some of which have been running from three to twelve months without being opened, or showing any descriptive leak—and act upon their recommendation.

Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Alameda Railroad, or at the VULCAN IRON WORKS, where they can be seen, at any time, in course of construction.

10df ANDREW STEVENS.

McCOMB'S

CUMULATIVE POWER PRESS

AND

ARROW TIE.

E. C McCOMB, Agent.

No. 1 Government House, cor Sansome and Washington sts.
23v10 3m

STOW'S

PATENT CHAMBER DRILL.

The greatest Labor-saving Machine ever discovered for Quartz Mining. By using this Drill in Shafts, Tunnels, and all other rock blasting, three-fourths of the labor and over one-half of the powder will be saved. The Drill makes a chamber directly at the bottom of the hole, at any depth you wish, six times the area of the original hole, in all kinds of rock, in less time than a man can drill a 2½ hole two inches deep. Requiring no tamping, it will be impossible to have a premature blast.

AT THE STATE FAIR held in Sacramento, Sept. 1865, a Committee, after examining both the Lincoln's and Stow's Chamber Drills, reported as follows:

We, the undersigned, Committee on Mining Tools, do award to Henry M. Stow, of San Francisco, the FIRST PREMIUM for the best Chamber Drill for Blasting rock, for the following reasons:

1st. For simplicity of construction;
2d. For durability of drill;
3d. For strength of drill.

The above Drills will be sent to any part of the State for $250, with one set of Cutters or Chisels that will chamber from 2½ to 4½ holes. Extra Chisels furnished at $2 50 per set.

The Drill may be seen at Mr. BUFFINGTON'S Office, No. 6 Government Block, corner Sansome and Washington streets, and at No. 511 Market street.

Drills will be delivered to any part of this State free of expense to the purchaser. Any information desired, or orders for Drills, address

STOW & COLLINS,
San Francisco.

Oil Wells! Oil Wells!!

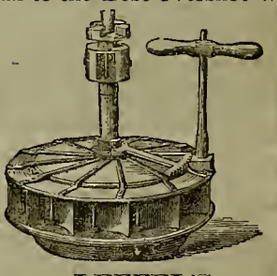
I received at the last STATE FAIR a special Premium for the best Expanding Drill for boring oil wells. The above Drill will bore the hole from ⅓ inch to 2 inches larger than the inside of the pipe or tubing of the well, if desired, making the bore perfectly straight and round. The Drill can be attached to mid-work with any common drill, at an expense of from $25 to $50. I will furnish all machinery for boring, or will take contracts for boring wells, and furnish steam engines and all tools required. Address,

HENRY M. STOW,
14v11 San Francisco.

WATER WHEELS!

Equal to the Best Overshot Wheel

POWER PLEDGED



IN EXISTENCE.

LEFFEL'S

AMERICAN DOUBLE TURBINE

Is now manufactured by the Vulcan Iron Works Company, in this city, and orders for the same can be filled immediately. We have a large supply of the different sizes, from 10 inches to 30½. Thus we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 100 to 300 pounds, will yield from 10 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to

LEFFEL & MYERS,

At Vulcan Iron Works, office 137 and 139 First street, San Francisco. 4v11tf

VARNEY'S

PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidity pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Sellers made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setlers for themselves, at the PACIFIC FOUNDRY,
1v1 San Francisco.

SALMON'S

PROPELLOR AMALGAMATOR

— AND —

Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

9v11 J. & W. C. SALMON.

OIL WELL BORERS.

A CONTRACT WILL BE LET TO A RESPONSIBLE party to sink an Oil Well, as deep as may be required, on land belonging to the "Eel River Oil Company," situated in Humboldt county, Cal. For particulars, inquire at the office of the Company, No. 436 Jackson st., up stairs.
12v11 1m E. H. WILSON, Secretary.

MINING AND SCIENTIFIC PRESS

PATENT AGENCY.

For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 4th, 1861, and March 3d, 1863, now in force. Introduces several important changes in our Patent System. The general duties of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, oath, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars: and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian, Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until election is given, or patent issued, if the patent is granted no further agency expenses ensues. If the application is rejected we a cause thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorneys, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or printed on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

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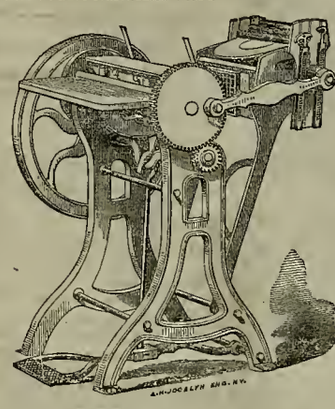

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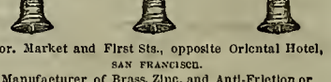

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SAN FRANCISCO, SATURDAY, NOVEMBER 25, 1865.

VOLUME XI. Number 21.

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IMPORTANT MEETING OF MINERS IN COLORADO TERRITORY.

Pursuant to a notice published in the newspapers, a large number of the citizens of Colorado Territory, interested in mining, met in convention, at Central City, on the 8th of November, 1864, when Hon. Wm. R. Gorsline was called to the chair, and C. C. Post chosen Secretary.

His Excellency, Governor Evans, being present, was called on to address the meeting upon the subject of Congressional legislation in regard to the mining interest, which he did, at considerable length, after which he offered the following

PREAMBLE AND RESOLUTIONS.

WHEREAS, Various propositions have recently been presented to Congress, foreshadowing a change in the policy of the Government in regard to our mines, looking to the realization of immediate revenue rather than their rapid discovery and permanent and successful development, and

WHEREAS, There is great danger that such legislation may tend to cripple rather than to encourage our mining interests. Therefore,

Resolved, By this meeting of miners and other citizens of Colorado Territory,

1st. That we respectfully protest against the application of any system of *Tenantry* to the operation of our mines.

2d. That we respectfully ask Congress to pass a law, giving in fee simple, under proper regulations, at least one thousand lineal feet of each lode to such person or persons as shall hereafter discover and develop the same.

3d. That we ask that the miners' titles to the mines already discovered, as at present held by them, be confirmed by Congress.

4th. That we ask for the establishment of a mining Bureau in the Interior Department of the Government, and that Geological Surveys of our mineral regions may be provided for.

Which, after being fully discussed, were unanimously adopted.

The following resolutions were then offered by Gen. H. M. Teller:

Resolved, That his Excellency, Governor Evans, be requested to lay the proceedings of this meeting before Congress, in such manner as he may deem proper, and urge upon its attention the views expressed in the resolutions passed. Adopted.

Also, Resolved, That a copy of the proceedings of this meeting be forwarded to our delegate in Congress, the Hon. H. P. Bennett, and that the same be published in the various newspapers in the Territory; when,

On motion, the meeting adjourned.

In pursuance to one of the above resolutions, Gov. Evans forwarded the proceedings of the meeting to Washington, accompanied with an appropriate letter, and the subjoined "memorial," which we publish in full, as, in our belief, equally expressive of the views of a great majority of the citizens of California. The subject of the resolutions, and the accompanying memorial, will come up for discussion before the approaching Congress. We would ask the particular attention of the miners of California, Nevada, and other portions of the Pacific coast, to this matter, with especial reference to the action which may be had by the proposed convention or conventions which may be held the coming winter in the States and Territories, which have not yet made their voice heard directly at Washington. The following is the

MEMORIAL.

These resolutions may strike some who are not familiar with mining operations as presumptuous. But no one who has been a miner, or lived in a mining country—who knows by experience or actual observation, that the gold and silver of our mines costs its full value in actual labor and search to the masses of those who are engaged in the business—will fail to regard them as reasonable. I know that they have the hearty concurrence of the great body of the people of Colorado Territory, whether they are engaged in mining or other avocations, from general inquiry made, and the hearty unanimity with which they were adopted.

The farmer, the merchant, the banker, the manufacturer, and other classes, are each supposed best to understand the bearing of questions affecting their respective branches of business, and why should the miner be an exception?

Mining being a local business, and less generally understood than most others, requires more careful consideration before measures affecting its prosperity are adopted.

Hoping that these views of a respectable body of men engaged in the business, may receive a favorable consideration, they are submitted with the following suggestions:

NATIONAL IMPORTANCE OF MINING.

That part of the public domain lying between the eastern base of the Rocky Mountains and the Pacific Ocean, extending from British Columbia to Mexico, is nearly one thousand miles square, and while it is believed to be generally pervaded by rich mines, it is far the greater part a trackless waste, of mountains. Though containing treasures that might enrich the nation, it will to a great extent remain utterly useless until the prospector explores and seeks out its hidden treasures. And this can only be done to advantage by private enterprise. A wise political economy would seem to dictate the most liberal encouragement to citizens of the country to induce them to go in search of these hidden treasures. If they enrich her citizens, they enrich the nation whose wealth and power are not in national proprietorship, but in the actual wealth and strong arms of her people.

Mining for the precious metals in its relation to the national prosperity is a peculiar business, in that it converts all that is expended in carrying it on into gold and silver. The domestic production of bullion is a direct addition of its full amount to the national wealth. The national credit is measured by the amount of gold and silver, and of articles that are convertible into these that are in the country, and that can be produced in time to meet its necessities. Therefore, in proportion as bullion shall flow into the country, more and more rapidly the national credit will rise, whether it is derived from exportation or domestic production. Were it demonstrated that the balance of foreign trade would be largely increased in our favor for a series of years, the national credit would improve according to the amount of such balance. The same result would follow a like increase in the domestic production of bullion.

Therefore, to increase that production, is to increase the national credit. All the labor expended, the subsistence, iron and other manufactured articles consumed in the production of gold and silver in the country, are disposed of in a manner equivalent to their sale in a foreign market. To impose a royalty or any other special tax upon the business, is equivalent to an export duty upon the product of the labor, and the articles consumed in it. In other words, a tax upon the production of gold and silver at home, is, in effect, the same as a tax upon gold received from abroad, in payment for articles of export. Should such a tax diminish or retard the increase of the annual production, it would cost the government more than can be realized by the sale, the rent, or any other mode of taxing mines, for it would depreciate the national credit—and a small depreciation of national credit upon an annual expenditure of five hundred millions would exceed the entire annual domestic product of gold and silver.

That a tax upon the production of gold and silver, however imposed, will diminish the annual product, will appear from the following considerations: 1st, Producers of all other articles can save themselves from loss on account of the payment of special taxes, by increasing their prices. The miner cannot do so, for the product is the standard of all values. While it will cost him the same in gold to produce the bullion from this mine, with or without a tax, of course he must lose the full amount of tax imposed, which, in case of a large yield and small profit, would necessitate a loss, and a suspension of the business. If the relative value of the gold is increased by the amount of the tax, the object of collecting it, which is to keep the national credit good, and thus keep down the price of gold, is defeated effectually.

If the annual product of gold could be increased proportionally by a payment of a premium on the production of the precious metals, and the continued freedom of the mines, it would seem to be a wiser policy, for there can be no more important product to the national interest; certainly fish are not, upon which a bounty is paid.

If fishing educates seamen, prospecting inures to the dangers and hardships of camp life. If fish are the result of uncertain research, hunting for undiscovered mines, from which the greatest increase of production hoped for must come, is equally uncertain. The chance of success in finding rich mines is the stimulus to search for them—and if by making the usage that has prevailed since the discovery of gold and silver in the mountains, the usage that gives the miner the mine for its discovery is a law of Congress, it is really adding no more encouragement to mining than its national importance, and the vast extent of unexplored country lying idle seems to demand. And if, as is asserted to be true, the mines really cost in the aggregate expense of their discovery and development all that they are worth, justice, as well as proper encouragement to mining, would seem to demand that those who succeeded in finding and opening valuable mines should be entitled to their proprietorship. I am satisfied that any legislation that does not recognize this policy and right will seriously impede the progress of mining operations.

The vast extent of unoccupied agricultural lands long held by the general government, added but little to the available wealth of the nation, except as they were cultivated by private enterprise. To the hardy and enterprising pioneer who penetrated the wilderness under privation, and in the face of danger, does the government owe the development of the vast region of almost boundless wealth and prosperity lying west of the Alleghany mountains. This region grew more and more rapidly as the land policy became more liberal, under the light of experience, which has finally developed the true political economy in the Homestead Law. In like manner the vast extent of mineral lands belonging to the government are valueless, except as the mines are discovered and developed by private enterprise. To encourage this discovery and development, by freely offering a title to such citizens as will find and develope mines, without the tedious course of discussion which preceded the Homestead policy, would speedily add to the national wealth and power another great right arm of strength. If a guarantee of title to a large extent of lode from the general government is offered, it will increase the inducements to prospectors to search for them. A premium on production would tend to more rapid development. But whether the premium is offered or not, the guarantee asked for in the second resolution would largely promote activity in mining.

SALE OF THE MINERAL LANDS.

Aside from the question of expediency, is the sale of the mineral lands practicable? The gulch or placer mines are divided into small tracts by the miners' laws, and are soon exhausted, some in a few months, others in a few years. The delay of surveying them after their discovery would find many worked out. To require government surveys before they should be worked, if it were practicable, would check prospecting and discoveries, and it would largely diminish the product. To sell or in any way interfere with the miners' regulations in regard to this class of mines, it is believed would be impracticable and inexpedient.

The Lode mines, to which the resolutions have particular reference, are more permanent, and more difficult and expensive to develop and operate—from fifty to two hundred and fifty thousand dollars being required usually for sinking shafts, opening the mines, and erecting the necessary machinery. These mines which are to be the permanent sources of our domestic product of gold and silver, have thus far been developed but slowly—the principal part of the gold product of the country having been thus far derived from the placer or gulch mines. The difficulties in the way of the more rapid discovery and development of lode mines are expense and hazard attending the business. The prospector first finds a blossom or surface indication of a lode, which may be fallacious. He then digs until he finds a crevice or vein. He then sinks a shaft to prove its extent, and tests the richness of the ore, and in a large proportion of cases to find the quantity too limited, or the quality too poor. When he finds it valuable, he must procure the large capital necessary to work it, before he can make his discovery available. The rich mines when found and proved, are the prizes for which all the successful and unsuccessful efforts of the miners are made. Before their discovery they could scarcely be said to have any value, at least their value was like that of the fish on your coasts and in your rivers. The privilege of finding them was at the risk of loss of time and means. When discovered and opened under the circumstances to whom do they in equity belong? What interest in them can the government sell, and how shall its amount be determined?

Mines not already found of course cannot be sold. The privilege of finding mines would scarcely be current in the market. Those that are found to be worthless would not sell, and therefore sales must be confined to those that have under these circumstances been proved to be valuable. To those in which large amounts have been invested under the usage of a free privilege to miners, and the universal conviction among miners that the government would not interfere with the miners' titles, which conviction has gained strength and increased confidence ever since the abandonment of the proposition to sell the mineral lands, that was before Congress soon after the acquisition of California.

The sale of the mineral lands would require their survey into subdivisions which must correspond with the lodes. If surveyed into tracts that would give the present occupants and owners tracts of land that included their mines, and justice would require this, it would be attended by insuperable embarrassments. Many of the lodes run so as to cross each other. In some instances valuable lodes are near to each other, sometimes they approximate for a distance and then coalesce—many

of the veins are crooked, and meandering in their course, both on the surface and as they descend. Most of them descend at an angle some with greater and others with less dip—so that if surveyed on the surface to include each lode and give the preseat proprietor his mine, he would, by following it down, find it to cross the line of his boundary and lose it after all his expenditures. In many places the mines are found where the mountains are so steep and their course so irregular that it would require the most expensive and difficult survey to define a tract to include one mine without another even on the surface.

From those facts it will be seen how utterly impracticable it would be to lay the mineral lands off into tracts for the purpose of sale. Nor would the attempt to issue patents to tracts even if surveyed so as to include each miner's interest separately, be attended with less difficulty. As at present held under miners' laws there have been numerous transfers or titles, cases of contest have been adjudicated by the U. S. and miners, courts under miners laws thus in almost all of our mining districts a well established and recognized system of common law has grown up, under which the equities have been defined and are well understood. Should the government now issue patents to lands covering these mines, justice to the owners would require an adjudication of title before such patent should issue. And as the laws of the different districts vary in their provisions, a general rule for such adjudication could not be properly adopted. It may be observed that the same difficulties would attend the confirmation of titles by leasing. The expenses of such a preparation for sale, and the difficulties attending it would be enormous. Then to sell the mineral lands in legal subdivision, would be liable to give a single proprietor a large number of valuable mines, and thus lock them up from those who would otherwise discover and develop them. Nor is this all; the unsettlement of titles by any modification of the present system would create at least temporary embarrassment, and seriously retard the progress of mining operations.

LEASING THE MINES.

Any system of tenantry by large classes of citizens is objectionable on general principles, in addition to the difficulties attending its inauguration.

The experience of the government of the old world in converting themselves into landlords, and miners into tenants, by which it has required hundreds of years to develop and discover so as to make productive many of their richest mines, ought to prove that the system is not adapted to American enterprise or American progress. And the attempt and signal failure of our own government to do the same under the law of 1807, fully proves its want of adaptation to the disposition, habits, modes of business and spirit of enterprise of the people. In the language of Senator Benton, used when speaking on the subject of leasing mines, "the spirit of tenantry is every- "where the same, it is a spirit adverse to im- "provements, always bearing towards the "injury of the property in possession, and "always holding back from the payment of "rents."

GUARANTY OF NEW DISCOVERIES.

It is an important object to the government to encourage the rapid discovery and developments of new mines. The inducement proposed in the resolution is the cheapest and most equitable that can be offered. The extent of lode above the usual amount of one or two hundred feet would be the stimulus to enterprise, and but equitable to the discoverer, would thus secure the benefit of his labor and search, instead of having them divided and shared by those who had borne no part of the expense. And it would promote the more rapid, permanent, and successful development of mines by justifying a large outlay for working them. It would in other words put new life into the business of lode mining. It would hasten the time when the almost limitless mountain wilds of our country would be thoroughly explored, and their mineral treasures brought to light. When rich and populous mining settlements, with their industry, their trade, their cities, and permanent social institutions would spring up in places now desolate. It would soon fill up the chasm between the Atlantic and Pacific States, and by contiguity of settlement, increase their identity of interest. It would hasten the construction, and secure the maintenance of the Pacific Railroad, and by means of branches throw upon it a commerce and travel that would insure its success beyond the anticipation of its most sanguine friends. Such are some of the influences of the liberal policy asked for, on our national interests and general prosperity.

RATIFICATION OF THE MINERS' TITLES.

That this is the only feasible mode of giving the government title, without great embarrassment, difficulty and expense, appears from what has already been said. That it is the only mode of doing exact and equal justice to the owners of claims, who have acquired and now hold them under well defined and adjudicated laws and regulations, must be equally plain. In the legislation of all the mining States and Territories in regard to mining rights and equities, it has been found to be the wisest and best policy to recognize the miners' laws. It is the simplest, if not the only practicable and just mode by which any legislation can be applied in the case. Nor would such a ratification interfere with the question of taxation should it be deemed expedient to impose a special tax upon mining for the precious metals, for it is believed that more economical and less objectionable modes of collecting taxes, than by sale or lease, are easily devised. It would remove the stigma of being called trespassers, which has by some been applied to miners, and which as loyal citizens, in the pursuit of a laudable and highly important branch of industry, they ought not to be considered. They have been encouraged by the Government through a series of years in their occupation of the mineral lands. This has been done by establishing mints for the receipt of the product of their labor, by the establishment of post roads, mail lines and post offices, for their accommodation, by the establishment of posts and garrisons of troops in their midst, and on the lines of their emigration and travel for their protection, and by the inauguration of temporary governments for them, and for the adjudication of their rights in the United States courts.

With the adoption of the policy indicated in the resolutions, and the establishment of a mining bureau, for collecting and diffusing information upon the extent, location and character of our mines, and the best mode of mining and saving precious metals, a new era of prosperity would open upon the mining interests, and the permanent and rapidly increasing annual domestic product of gold and silver would become the strong right arm of support to the national finances, and the government credit.

THE CHOLERA ATMOSPHERE.—Two balloons were sent up, one of them over Alexandria, the other over a village in the isthmus where cholera had not made its appearance. From each of the balloons was suspended a piece of fresh beef cut from the same ox. After the balloons had remained up for some hours they were both pulled down, and the beef suspended over Alexandria was completely tainted, while that which had been suspended over the village was as sweet and good as ever.—*Galignani.*

A similar experiment was tried in Chicago a few years since, while the cholera was raging there, and with similar results.

THE POSTAGE MONEY ORDER SYSTEM will soon be in operation in this State. Only large towns, or "distributing offices," are to be accommodated, however. It is a benefit we have long needed from the government, and will prove a particular favor to the great mediocrity of our population. Following are the regulations:

The charges for drafts or orders, payable at any *distributing* post office in the United States, are as follows: Sums under $10, ten cents; over $10 and under $20, fifteen cents; over $20 and not exceeding $30, twenty cents. No orders for over $30 will be issued. The orders are payable in U. S. Legal Tenders, or the bills of the National Banks, and are purchasable at par for like funds; in other words, you pay $10, $20 or $30, and the registry fee, in greenbacks, and get an order for a corresponding amount in the same funds.

THE CALIFORNIA COASTING TRADE.—From the annual report of the Harbor Master of this city, it appears that there are five hundred and twenty-seven vessels engaged in the coast and bay trade, classified as follows: thirty-one steamers, seven ships, fifty barks, twenty-six brigs, and two-hundred and ninety-one schooners, and one hundred and twenty-one sloops.

INSANITY FROM SMOKING.—The following incident is indicative of the deleterious effect upon the brain of the excessive use of tobacco in smoking: A man named Samuel Taylor, thirty-six years of age, residing in Finsbury, hanged himself, and at the inquest his father, who gave evidence, attributed the act to his son's partiality for smoking, which he thought had affected his brain.

IT has been reported to the General Land Office, that extensive gold discoveries have been made on the northern shores of the west end of Lake Superior, in the Northeastern Land District of Minnesota, which are attracting general attention.

SLATE, copper, plumbago and silk, according to reports, are now to be included in the productions of New England. The silk is said to be extremely plentiful, and produced by a common caterpillar, which has been looked on as a pest. It feeds on the common scrub oak.

Communications.

IN THIS DEPARTMENT we invite the FREE DISCUSSION of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

ANSWER TO "ELECTRICAL QUERIES."

MESSRS. EDITORS:—I regret that the author of "Electrical Queries," which appeared in your issue of the 28th ultimo, did not read my communication more attentively. Will he please read it again.

He understood me to say that "electricity is not an entity, but a condition." I most distinctly said that electricity is a property or quality of matter, and that it *exists* in two conditions—namely, as free electricity, or as latent (or fixed) electricity. I also said, and meant, too, that the density of matter is the measure of its capacity for electricity. When we speak of the capacity of bodies for heat, reference is supposed to be had to the amount of latent heat such bodies contain—the gases containing the most, and the more dense of the metals containing the least. In expressing my ideas of the laws which govern electrical action, I endeavored to select such words as would render it unnecessary for any person to go outside of my language for my meaning.

I will endeavor to explain how an electrical current is lost when but one wire is used, and why it is necessary that the circuit should be completed with insulated wire in ocean telegraphy. While so doing, I wish the fact to be borne in mind that the earth is a vast reservoir of free electricity, and also that free electricity tends to equal diffusion over bodies with which it may be in contact. I will here describe an experiment which goes a long way towards establishing these propositions. Take a leyden jar, insulate it upon a stand, and bring it within a short distance of the ball of a prime conductor, and it will receive only a few sparks. Now, if we place a conductor which is connected with the ground, near the outside coating of the jar, it will be found that for every spark that passes between the prime conductor and jar, one passes between the outside coating and the ground; and spark follows spark in rapid succession, until the jar is fully charged. This experiment indicates to what an extent the outside coating was charged with free electricity. Before the jar was insulated upon the stand it must be admitted that an electrical equilibrium must have existed between its outside coating and the surrounding bodies with which it was in electrical communication; it also follows, as a matter of course, that an electrical equilibrium existed between the outside coating of the jar and the whole earth. (I would here suggest that an apparatus might be devised, to measure the exact amount of free electricity diffused over any given space.)

As all bodies in electrical communication with the earth are so largely charged with free electricity in ordinary telegraphy, the current is effected by displacement. And as the current is effected by displacement, the time between the entrance of a spark at one end, and the departure of a spark from the other, would probably not be appreciable in a cable of any desired length. Suppose the circuit to be completed across the Atlantic, with insulated wire, a lengthy message might be transmitted before its ordinary charge of free electricity would all be displaced or renewed.

The whole earth is bathed with an ocean of free electricity, and it is so good a conductor that its electrical tension cannot differ much in different parts; yet, it differs sufficiently to produce the terrestial currents. There are probably not five days in the [Our correspondent, probably, unintentionally omitted the word "year," in his manuscript at this point.—ED. PRESS.] when an exact electrical equilibrium exists between the two shores of the Atlantic ocean. Now, suppose the western shore to be more highly charged than the eastern, and in attempting to telegraph, we pass a current of electricity along a single wire, on its arrival at the eastern shore it would become diffused and go to assist in restoring the electrical equilibrium, and thus its effect would be lost. The difficulty does not end here; for if we have but a single cable stretched across the Atlantic, and each end of it connected with the ground, it is evident that a certain amount of terrestial electricity, varying with the difference in the electrical tension between the two shores, would pass along the cable, because it is a better conductor than the earth.

With the first Atlantic cable, during fair weather, there were intervals in which they were able to overcome these terestrial currents, and hold telegraphic communication. But when stormy weather set in, these currents were so strong that the operator lost all control over the cable. It was reported at the time that the telegraphic apparatus kept up a continual clatter. It was also said that the operator tried to regain control of the cable, by increasing the power of the batteries; after which it was reported that all action had suddenly ceased. An attempt, at a subsequent period, to recover the cable, revealed the fact that it was destroyed! Its destruction was, probably, due to its being overcharged, and consequently heated.

If we confine the returning current within the limits of an insulated wire, and thus seek to be independent of all outside electrical disturbance, the difficulties and uncertainties I have endeavored to point out will be avoided. A perfectly constructed cable might be made to encircle our globe, and its volume would not probably amount to an obstruction of the electrical current.

I wish to correct two typographical errors which occurred in my last communication, entitled "Electricity—Its Relation to Matter," as they have a tendency to obscure my meaning. In the 7th postulate, for "the electricity," read "free electricity." In the first sentence in the first paragraph, following the 8th postulate, for "perfectly electrical," read "permanently electrical."

F. A. H.

[Written for the Mining and Scientific Press.]

LETTER FROM VIRGINIA CITY.

MESSRS. EDITORS:—The charmingly pleasant weather in this precocious mountain city, whose great altitude drives it, theoretically, several degrees of latitude northward, towards the Arctic regions—the delightful and balmy air of the evenings, now brilliantly illumined by a full moon of almost polar splendor, whose softened light is delicately tinged by a smoky haze that bathes the "Sugar Loaf," as it stands guard in the canon, below the extensive quartz milling establishment of the famous Gould & Curry Mining company, and hovers over the desert beyond, and along the willowy banks of the Carson, far away eastward, where the great bend of the river, near Fort Churchill, obstructs the valley vision, made a most favorable impression on my mind, which involuntarily traveled Eastward to the Atlantic slope, to the home of my childhood; and it only lacked the rustle of the falling leaves of the expiring year to vividly recall to mind the "Indian Summer" of childhood, jocund with "huskings," "apple parings," and other autumnal amusements, peculiar to the happy "days of auld lang syne." The city of Virginia, situated as it is about half way up the eastern slope of Mount Davidson, which has a direction nearly north and south, and whose summit is the highest peak in a short range of mountains extending from Eagle Valley, near Carson on the south, to the Truckee Meadows on the north, and which separates this wealthy mineral belt from Washoe and Steamboat valleys, and the extensive and richly-timbered ranges of the Sierra on the west, has in its western and most lofty streets an extensive and charming panorama always spread out before its ever-delighted denizens. The mountain ranges, as you face the home of the morning sun, stretch north, east, and south, with their snow-capped peaks dwelling in the regions of perennial congelation, and all the intervening space filled up with rugged hills and mountains, of various sizes and forms innumerable, with bluffs and gorges, and peaks, and minaret-like spires, and knolls, and plains, and all fantastically grouped, and presenting somewhat the appearance of an extensive fleet of icebergs anchored in a polar sea, giving the prospect a wildness sublimely grand, which must be seen to be appreciated.

THE MINES.

The streets of Virginia present very much more of business, bustle and commercial activity than I had reason to expect, from the confident prophecies of the bears, and the recent extraordinary tumble experienced by the mining stocks of the Comstock range. My stay here has been too brief (I shall leave for Austin in the morning stage) to allow me to speak of the mines, of their value and extent, as confidently as I might, had I given them a thorough personal exploration. I went through the Crown Point and examined it more

thoroughly than any other herenbouts, and judging from what I saw, and from information derived from sources which I deem reliable, I confess myself unable to discover any just reason for the present depreciation of the Washoe mining stocks.

On the part of the directors of most of the mines on the Comstock, there is at present less inclination to work out those bodies of ore in sight than to prospect for undiscovered deposits, by following down the shafts to much deeper lower levels than has been heretofore attained, and by driving galleries in various directions, to expose the hidden wealth below. Hereafter mine working will be controlled more by sight, and less by blind faith, than heretofore. Notwithstanding the present temporary draw-backs to the raising of large quantities of ore for the mills, I understand that their product for the month just passed equalled that of either of the three preceding months. In a short time the Gould & Curry will reach a level of one thousand feet below the surface, and the Chollar mine will soon attain nearly an equal depth. The Hale & Norcross recently, at a depth of seven hundred feet, struck a body of good ore. Should the G. & C. and the Chollar be equally successful, a new confidence will be awakened in the wealth and stability of this entire range.

The present depression will not be without its uses. Hereafter, I think, it is safe to predict that a majority of the mines in this county will be conducted more with a view to the general interests of the stockholders than, as heretofore, for speculative purposes on the part of their managers. It will conspire to bring about a system of economy heretofore unpracticed, if not unknown. The price of milling ores has already been essentially reduced, and to-day ores are mined and reduced, at a small profit to the mine, that less than a score of months since were considered worthless. There are along the entire range of this extraordinary lode, where it has been reached by the pick and shovel of the explorer, huge masses of ores of a low grade, that will add essentially to the value of these mines when some more efficient and economical system of machinery and milling will come into use than are now employed.

A NEW AND IMPROVED QUARTZ MILL.

Speaking of an improved and cheapened system of working ores, calls to mind a model of a new quartz mill, for extracting the precious metals from the ores of gold and silver, recently invented by Col. Jno. A. Collins of this city, and which promises, when brought into practical operation, in my humble judgment, to work a revolution in quartz milling. The mill is so simple in its construction, so comprehensive and effective in its working arrangements, so exempt from that system of gearing, shafting, belting, and the vast amount of intervening machinery that consumes power, costs money, requires attention, and is constantly liable to derangement, indispensably necessary to our present milling machinery, that I am confident you will cheerfully grant me the necessary space to furnish your readers with a very brief description of this new candidate for public favor. Before doing so, however, allow me to say that the machine embraces no new or untried mechanical principles, either in its crushing or amalgamating department, but it simply embraces an ingenious grouping together, within a small space, of all the most effective mechanical arrangements known to the fraternity of quartz reducers.

This invention embraces the Chile mill process of crushing, much improved, however, and both the Barrel and Pan process of amalgamation. From three to six iron-shod wheels, from three to six feet in diameter, according to the size of the mill, are made to follow each other around in a circular iron trough, crushing the ore as in a Chile mill. The crusher of each of these wheels consists of a barrel from three to six feet in length, similar to the Frieberg barrels, so that when filled with pulp charged with the proper chemicals, the amalgamation is going on while the wheels are crushing ores. These wheels are driven by applying the power directly upon the periphery instead of the axle, and herein consists one of the great merits of the invention. A circular iron plate, resting on the tops of the wheels, and weighted down sufficiently, is made to revolve by means of an upright, center shaft, to which the driving-power is applied. The wheels are kept in position, and guided by a fixed attachment or revolving axle, not connected with the driving-power. The crushing capacity of the wheels is regulated principally by the weight of the wheels and barrels combined, and the ballast with which the driving-plate is weighted—the pulp in the barrel thus assisting to crush the ore to supply it, without occupying any additional space and requiring but a small additional amount of power.

The Pan process consists in placing, in iron-lined barrels, of similar dimensions to those described above for the Fricberg process, cast-iron rollers, having a length equal to that of the inner dimensions of the barrel, but of unequal diameter, which create, in addition to a crushing, a reverse and grinding motion, ; and, enveloped in the pulp, revolve and slide on the inner surface of the barrel, while it rotates and grinds the ores for amalgamation. It is estimated that three of these barrel-wheels rotating in an iron trough or road bed, ten or twelve feet in diameter, will crush and amalgamate, in a day of twenty-four hours, fully twenty tons of quartz ore; for each wheel passing once around the circuit will, with sufficient weight, completely pulverize one charge of ore; but the capacity of the mill may be doubled by adding three more barrel-wheels, to work on the same track and between the other barrel-wheels, without any additional cost, but for the expense of the barrel-wheels. The capacity of this double mill may again be doubled, without increasing the space occupied, by putting another set of six wheels above them, upon the circular driving-plate, which becomes the bed of the upper set of crushing and amalgamating machinery or wheels, and, at the same time, the driving power of both, and the weight of the upper wheels, seems as ballast for the lower. Another circular plate, with weights upon it, rests upon the tops of the other wheels, but is disconnected from the driving-shaft.

Another great advantage in this machine is, that it will crush the ores dry, and as well, and as rapidly, as in water, without damage to the machinery, as is the case with our present crushing machinery.

I have not space in a letter to enter into a detailed description of all the features of this invention. The model to be appreciated in all its advantages should be seen; but I have, I think, said enough to give you a general idea of its operation and the principles involved.

The advantages summed up, appear to me, among many others, to embrace the following, to wit:

1st. The great economy of power, secured by applying the power to the periphery of the wheel instead of the axle, and also by effecting the crushing and amalgamation by one and the same motion.

2d. The small space occupied by buildings and machinery, and the consequent diminished cost of construction for milling purposes. There is no complicated, cumbersome, and expensive gearing, shafting, or belting, required in the first instance, or to be kept in repair afterwards. Being very simple, and occupying so little space, it requires a much less number of laborers to work it, much less power to drive it, and much less expense for repairs or for replacing of machinery. Compared to ordinary stamp-mills and amalgamating-pans of the same capacity, the first cost is insignificant, and that of running and repairing equally so.

3d. The requisites for successful amalgamation are secured—the ores are reduced to the requisite fineness of the crushers or wheels, and by the rollers within them. The mercury and the pulp are brought into close contact, and kept so for the necessary length of time to secure the amalgamation of the precious metals. The friction necessary to aid electrical currents, to aid in vitalizing quicksilver and decomposing the sulphurets, and the formation of amalgam, is admirably secured by the action of the iron rollers within the barrels.

4th. The invention may be used on a large or on a small scale, to suit the convenience or wants of different parties. It may be driven by horse-power for small rich ledges, like those of Reese River, and other localities, and may be made portable, like a threshing machine, for prospecting; or it may be by steam or water-power, on as grand a scale as the most ambitious could desire.

With my best wishes for the success of your valuable journal,

I am, etc.,

J. E. Clayton.

Virginia City, Nov. 2, 1865.

Hard Hydraulic Cement.—The following receipt is given for a cement which it is said has been used with great success in covering terraces, lining basins, soldering stones, etc., and everywhere resists the filtration of water. It is so hard that it scratches iron. It is formed of ninety three parts of well burned brick, and seven parts litharge, made plastic with linseed oil. The brick and litharge are pulverized; the latter must always be reduced to a very fine powder; they are mixed together, and enough of linseed oil added. It is then applied in the manner of plaster, the body that is to be covered being always previously wet with a sponge. This precaution is indispensable, otherwise the oil would filter through the body and prevent the mastic from acquiring the desired hardness. When it is extended over a large surface, it sometimes happens to have flaws in it, which must be filled up with a fresh quantity of the cement. In three or four days it becomes firm. If its advantages have not been overrated it must be a very excellent cement for rendering the joints of aquariums water tight. Try it and see.

Useful Information.

The Philosophy of Sleep.

NUMBER TWO.

THE PHENOMENA OF DREAMING.

In dreams, that which most strikes us are their monstrous and capricious combinations, and our want of surprise at their improbability. Thought suggests thought perfectly at random; the laws of mental crystallization seem suspended or confounded; any side of any element of thought appears capable of attracting the unlikeliest relation of another. Yet we seem to see nothing extraordinary in the fantastic creations.

A check is absent in dreaming, which our waking reason uses. When awake, we recollect our just relation to every event and person presented to our senses or to our thoughts; something like our true position is constantly before us. In dreams this is quite forgotten—wife, children, home, are not ours; while the friends, whom we have lost, meet and converse with us, as if they were our daily companions. Our fancy experiences no check from reality; the link which unites its operations with the past and the present and the future is temporarily unloosed.

IN SLEEP THE MIND IS PUT OUT OF GEAR.

The mind may be said in sleep to be put *out of gear*. When we dream, the engine continues to work, but the whirl of thought has no bearing upon our practical being. It does not use our memory of the past, or touch or influence our present purposes. Our every-day existence is veiled from the play of our associations; our anxious and responsible nature, with all its thoughts and cares, is wrapt in oblivion. Imagination, so dimly lighted is the cell where Reason sleeps, looks upon our tired hopes, and fears, and wants, and does not recognize them.

Sir John Franklin remarks, when his party was in the extremity of physical exhaustion and physical suffering—when they were compelled to sustain life by eating their old shoes and gun-covers—"Although the sensation of hunger was no longer felt by any of us;—yet we were scarcely able to converse on any other subject than the pleasure of eating." *But their dreams at this period, while they were starving, were of plentiful repasts.*

It may be difficult to go deeper than the observation of the fact of sleep and its final cause. Its purpose is Rest. This Nature effects in sleep, by detaching our mental powers from our recollections; the former may move rapidly, or be quiescent,—it matters not:—the resistance is removed,—the engine whirls on without strain or effort,—the machinery of our being is unloosed from it. It would be pursuing the analogy too far, to conjecture that this fact explains the rapidity of thought in dreams.

OTHER PHENOMENA OF DREAMING.

Still, however, we may try another cast on this topic. We *will* in our dreams; and what we will seems to be accomplished; we seem to move, but without real bodily motion; we seem to speak, but without really uttering a sound,—the mental powers do not draw after them corporeal actions. [This, the experience of most people assures them is not always the case.—Ed. Press]. We equally seem to see others move, and to hear others speak. We are, then, it is evident, in both cases, attending only to the play of our imagination. We really are neither perceiving nor willing. We are absorbed by the flow of our fancy alone. But why has it this unaccustomed force of reality, and why do we not detect the absurdity of its combinations? One reason certainly is, that the external world is now shut out. Thought has retired within itself. The principal avenues of sensation are closed; the bodily sensibility has become duller; the outward impressions, which in our day-dreams are still present to check the wandering mind, are no longer there to moderate its flights.

Perhaps all the phenomena of sleep and of ordinary dreams may be explained by the supposition that the faculty of attention is suspended in sleep, or that sleep consists in a suspension of the act of attention. It is, however, not easy to define rigorously and satisfactory what attention means. In the waking state we are, as it were, asleep to all other impressions, when the attention is concentrated on one.

CONDITION OF THE BRAIN DURING SLEEP.

No physiological inquiry is more pregnant than this. A case is related by Blumenbach, of a person who had been trepanned, and whose brain was observed *to sink when he was asleep*, and swell out when he was awake, *—a proof that the cerebral circulation is more languid when we sleep than when we are awake.* The brain is not moved and excited by the same eddy and tumult of the blood during sleep as during the hours of waking. Accordingly, all the circumstances which hurry the circulation, such as mental contention, thought, joy, anxiety, bodily exertion, excite the heart's action, and are antidotes to sleep.

It is not equally easy to prove, but on reflection it appears no less certain, that *the nervous power of the brain is lowered in sleep;* that the depression of the cerebral circulation is accompanied by depression of cerebral energy. For how else are we to account for the slowness or suspension of digestion during sleep, the feebleness of the heart's action, the susceptibility of cold. "The steam has been turned off," and the body is relaxed; its functions (a fact best perhaps shown in hybernating animals) are half at a stand-still; that which imparts force and activity to every function is no longer generated in adequate power and quantity; the brain, the main source of nervous energy, is in repose.

CONNECTION BETWEEN SLEEP AND BRAIN ATTACKS.

The bearing of these conclusions, if just, upon cerebral disease, is of great importance. *Brain attacks generally come on during the night, and during sleep.* That is to say, *they mostly supervene at the time when the power of the brain is lowered.* They are then, in some degree, connected with depression of the cerebral forces. They are favored by weakness and exhaustion of the brain.

The attacks to which I refer are epilepsy, apoplexy, and palsy; the common impression respecting which is, that they proceed from determination of blood to the brain, or from some kind of force or pressure operating actively to disturb the functions of the organ. I believe, on the contrary, that in the *majority* of cases, especially in advanced life, these seizures, taken as a class, result from cerebral failure, from weakness, depression of power, temporary or permanent, of some part or the whole of the brain.

It does not contravene the preceding conclusion, that these complaints are liable to be primarily induced by *action in the head*;—that where they do not result from alteration of structure, they often may be traced to habits of full living and strong excitement, which have frequently thrown the blood in hurried and violent circulation through the brain:—and that besides, in many instances, a loaded and labored circulation goes with, and gives increased danger to such attacks.

The mildest form of epilepsy is best described by the term "desertion of mind." It consists in sudden failure of consciousness frequently unattended with giddiness, often so transient, that the patient does not fall, but recovers in time to save himself. When such slight attacks occur in the night, the patient before sleeping tranquilly, starts up abruptly, awakened by the consciousness that he is rallying from such a sudden oblivion. These attacks are often attended with a feeble or failing pulse, sudden perspiration, every sign of physical and nervous weakness; they are cerebral debility, and at the moment, stimulants should be used to rouse the languid brain and heart.

[To be Continued.]

Varnishing Furniture.

The appearance of furniture may be greatly improved by a coat of good varnish, which a skillful housekeeper may lay on quite as well as some manufacturers of furniture. The proper tools and materials are quite as essential as skill in order to varnish neatly. A clean, light and warm room is indispensable, unless it can be done in the open air, in warm weather. When varnish is exposed to sunshine it is apt to blister. If applied to cold or greasy furniture it "crawls," and settles down in ridges. When furniture does not take varnish well, rub it thoroughly with a cloth dipped in alcohol, or benzine. Then keep it in a warm room until all the wood has been well warmed through. When the varnish is being laid on let it be kept warm, by standing in a kettle of water nearly boiling hot.

Procure a small *varnish* brush, not a paint brush, for varnishing chairs, and take only a small quantity of varnish on the brush at once. Spread it evenly and thin, and work it well with the brush. When entirely dry, apply another thin coat. A beginner can do a much better job by laying on two thin coats than only one heavy coat.

There is a great difference in varnish that is sold for a given kind. Unless one has tested its drying quality, it would be well to try it on a piece of cheap furniture, to ascertain whether it will dry well. Varnish that will stick to everything that touches it, is a vexatious nuisance. Let such varnish or paint be rubbed thoroughly with good benzine, and afterwards two coats of good varnish applied.

Walls that have been papered, may be varnished after a thin coat of glue-water has been applied to keep the varnish from striking into the paper. When varnish is laid directly on the paper, most of it will be absorbed, and there will be little gloss.—*Am. Agriculturist.*

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, November 25th, 1865.

It is still difficult to negotiate anything but prime paper. and that for the most part must be free from the taint of mining stock speculations. Although there has been a determination of late to hold in check the flood of mining paper, in one form or another, with which the market has been deluged, and to restrain the spirit of speculation which in times past has often pushed this interest into a position perilous to itself and to other important interests among us, there is now rather more disposition to accept certain mining shares as the basis of loans, and a number of negotiations of this character have been made during the week. The current rate in bank is 1¼@1½ ₱ cent. per month.

The receipts of treasure since our last reference have reached $1,300,000, making an aggregate of $3,400,000 thus far during the current month. The market is not largely supplied with bullion, but the demand is light and sales of gold bars have been made at 830@840. Silver is held at ¼ ₱ cent premium to ½ ₱ cent discount.

An important rally in all mining shares was inaugurated at the close of last week, and the movement continued for several days, when a stampede took place and every stock on the list met with a decline.

Since then the market has evinced rather more steadiness, with a tendency to higher figures for some stocks. Advices from Nevada are thought to be rather more encouraging with respect to the future of certain claims, and it is stated by those who ought to be well informed, that a prominent banking institution in this city (upon whom many parties usually rely in the negotiation of their stock collateral loans), is again extending its favors in that direction, with, however, more discrimination than formerly. City stocks are for the most part held with firmness, but a decline in some shares may be noted.

California Steam Navigation fell from $68 to $60, seller 30, rallied to $65, then sold at $70, and closed at $69 asked. We are authorized to state that this Company have bought of Mr. J. B. Dickinson the screw steamships Ajax and California, both of which are to be actively employed in the coast trade. These vessels are new and of the most substantial character, and it is believed that their purchase will not interfere materially with the regular dividends of the company. owing to the large surplus on hand. The disbursements required for the first installment due upon these ships, will serve to explain why the last dividend was paid in Legal Tender notes, but it is likely that no more will be made in the same kind of funds.

Gould & Curry rose from $850 to $920, then sold at $950, and closed at about $975 asked. Their mill has recently been crushing an average of 120 tons of ore per day, and outside mills are reducing about 20 tons daily. The annual report of this company will, it is thought, present some encouraging features as to its present condition and future prospects. The suit instituted in this city a short time since by the Seneca Company, against the Gould & Curry claim, so far as we can learn, is of little or no importance. The Seneca Company was perpetually enjoined a short time since, and made no appeal from so effectual a disposition of their case by the courts of Nevada. The North Potosi, and Bajazette and Golden Era suits against the Savage and Potosi companies, it will be remembered, were analogous cases, and the attempt to revive, at this time, a similar cause of action against the Gould & Curry Company is, to say the least, a very peculiar proceeding.

Alpha rose from $680 to $950, receded to $815, rallied to $820, seller 30, dropped to $790, sold on Thursday at $800, and closed at $860. Recent developments in the lower level are favorable, and it is thought that a large body of good ore will soon be disclosed in that portion of the mine.

Savage has been actively dealt in, and some 50 feet were sold, advancing from $620 to $775, buyer 30, receding to $640, then selling at $670@655, and closing at $760, assessment delinquent. The repairs to the shaft were completed an Tuesday last, and since then an average of some 200 tons of ore per day have been hoisted to the surface. Arrangements have been made with outside mills to crush 150 tons daily, and the Minnesota mill will also reduce about 25 tons per day. The financial condition of this company is now about as follows: Immediate liabilities, $231,000; due upon the Minnesota mill, $40,000 in monthly installments of $5,000 each—in all $271,000. From the recent assessment $70,000 will yet be received, reducing the actual indebtedness of the company to about $200,000.

Yellow Jacket was in decided request early in the week. and rapidly rose from $545 to $750. buyer 20, then dropping as suddenly to $580, rallying to $600, selling on Thursday at $595@$565, and closing yesterday at $620. The southwest drift is said to have met with a deposit of good ore, and in the north end of the mine very rich ore has been found this week. Drifting has begun in the different levels from the new or south shaft. During the week ending November 6th, 940 tons were extracted, and 630 tons were worked, yielding $17,969.62, or an average of $28.50 per ton.

Crown Point advanced from $750 to $830, fell to $700, seller 30, rallied to $720, and sold at the close at $760. During the week ending November 18th, 296 tons of ore were reduced by the company's two mills. In the lower level drift pay ore has been met with, and the indications are said to be favorable. The south incline on the west stratum is now down 64 feet from the 230-feet level, and the ore improving. The north incline is 59 feet deep, and also looks better. In the east stratum the incline has attained a depth of 46 feet, and the pay streak carries fine ore, but is narrow. From the north end of the mine above the 230 and 160-feet levels, some good ore continues to be taken.

Belcher fell from $400 to $295, rallied to $305, and sold yesterday at $320. Little or no progress has been made recently in the drifts from the two lower levels, owing to a continued influx of water. The debt of this company is now about $100,000.

Ophir rose from $340 to $415, buyer 30, then selling at $400, and closing yesterday at $395. Receipts of bullion during the first half of this month amounted to $32,863, and the indebtedness of the company is being materially reduced.

Chollar-Potosi advanced from $255 to $315, fell to $277½, and sold yesterday at $295@$292. During the week ending 17th instant, 330 tons of ore were sent to custom-mills, 208 tons were sold at $8 per ton, 46 at $7, and 109 at $5. In the Bajnzette ground the north drift is in 30 feet, and continues in good ore. The drift south, east of the pay seam, is also in 30 feet. and has run into good ore. The new developments on the south end of the Potosi, now communicate with the 5th station of the Chollar, and it is said that a large quantity of ore can yet be taken from that point. The drift from the new shaft is now under way. The total liabilities of this company now amount to some $250,000.

Empire Mill and Mining Company rose from $155 to $185, and closes at about $175. The drift, 139 feet west of the shaft, at a depth of 160 feet, has cut a vein of fair ore some 20 feet in width, in hitherto unprospected ground, and it is thought to reach within 30 feet of the surface. About 1,000 tons of ore will be hoisted this month mainly from that portion of the mine, and it is thought the company will be out of debt on the 1st of January next.

Imperial rose from $148 to $155, fell to $145, rallied to $152½, dropped to $138, and sold yesterday at $136@$131. Receipts of bullion this month show a material falling off as compared with same period last month.

Hale & Norcross rose to $170, fell to $155, and rallied to $200, again declined to $155, and sold yesterday at $205. Confidence was dealt in at $60@$62, closing at $60.

Overman rose from $38 to $58, fell to $52, rallied to $49, and sold at the close at $40.

Bullion advanced from $35 to $70, buyer 30, steadily declined to $42. and sold yesterday at $40. Exchequer has been dealt in within a range of $10 and $16, closing at $15. Sierra Nevada sold at $7@$6.

The aggregate sales of Stocks, since Saturday last inclusive, amounted to $772,340.

Fluctuations in Leading Mining Shares for the past Six Months.

Name of Company.	June 1st.	June 10th.	June 20th.	July 1st.	July 10th.	July 20th.	July 30th.	August 10th.	August 20th.	Sept. 1st.	Sept. 10th.	Sept. 20th.	Oct. 1st.	Oct. 10th.	Oct. 20th	Nov. 1st.	Nov. 10th.	Nov. 20th.
Gould & Curry.....per ft.	1,525	1,625	1,645	1,750	1,750	1,730	1,500	1,500	1,475	1,135	1,300	1,240	1,250	1,000	1,015	1,010	1,100	875
Ophir.....	485	480	500	495	455	530	425	400	390	280	385	415	340	515	380	425	492	340
Savage.....	1,190	1,150	1,425	1,375	1,400	1,310	1,175	1,220	1,300	1,300	1,225	1,215	1,225	1,075	930	800	765	625
Potosi.....	202	312	467	342	350	395	480	465	460	440	420	410	472	455	355	350	308	270
Chollar.....	215	317	473	345	370	410	500	490	500	475	455	420	500	480	370	375	3 8	270
Hale & Norcross.....	440	490	650	560	555	570	525	520	510	480	530	550	750	475	325	305	205	155
Sheba.....	18	15	18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Daney.....	15	15	15	14	....	14	....	50	70	43	40	40	35	30	15	10	15	8
Wide West.....	5	4	3	7	8	6	....	....	....	....	....	....	6	....	....	....	....	....
Burning Moscow.....	40	46	57	34	29	25	29	25	34	23	20	5	....	....	....	....	....	....
Pride of the West.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bullion.....	135	130	165	149	175	180	175	157	175	160	....	125	126	125	70	62	57	38
Real del Monte.....	12	10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
El Dorado.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Overman.....	115	100	120	130	342	305	200	241	213	190	135	170	175	150	100	95	62	42
Sierra Nevada.....	13	12	14	15	10	14	25	20	18	19	22	21	17	22	12	10	12	8
Yellow Jacket.....	1,400	1,320	1,150	1,090	1,015	1,105	1,220	1,350	1,355	1,420	1,460	1,405	1,345	1,110	720	780	670	620
White & Murphy.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sides.....	....	....	....	....	75	60	....	....	....	....	....	....	....	....	....	....	....	....
Uncle Sam.....	115	100	155	185	345	307	190	240	215	193	185	....	....	....	....	....	....	....
Baltic.....	....	....	....	....	20	16	....	....	....	....	....	....	....	....	....	....	....	....
North American.....	30	28	25	28	35	42	35	30	29	24	16	....	....	....	....	....	....	....
Baltimore American.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Melones.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Antelope.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Napoleon.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sacramento.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Utah.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lady Bryan.....	....	....	....	6	6	6	....	6	3	....	....	....	....	....	....	....	....	....
Imperial.....	139	175	217	233	245	218	227	230	255	252	250	221	232	210	174	183	157	150
Crown Point.....	725	780	750	765	800	910	905	900	1,250	1,120	1,115	1,150	1,130	1,025	750	700	720	830
Belcher.....	925	620	695	780	775	850	805	860	865	875	900	910	875	690	400	485	400	300
Alpha.....	....	....	....	1,450	1,400	1,470	....	1,425	1,500	1,925	1,950	2,100	2,200	1,700	1,000	1,010	790	930

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, November 18.

1 sh Savage at 620 per foot, s 30.
6 shs Savage at 642½@630 per foot.
1 sh Savage at 630 per foot, b 5.
6 shs Hale & Norcross at 160@770 per sh.
3 shs Chollar-Potosi at 225 per foot.
7 shs Yellow Jacket at 545 per foot, s 30.
8 shs Yellow Jacket at 575@600 pr ft, b 30.
4 shs Alpha, G. H., at 680 per foot.
5 shs Imperial at 149 per share, s 25.
10 shs Imperial at 148@149 per share, s 6.
66 shs Imperial at 149@155 per share.
110 shs Imperial at 148@150 per share, s 30.
25 shs Imperial at 155 per share, b 5.
30 shs Imperial at 155@150 per share, b 30.
10 shs Imperial at 142½ per share, s 60.
20 shs Imperial at 125@130 per share, s 90.
10 shs Sierra Nevada at 7 per share.
1 sh Empire M & M Co at 155 per share.
2 shs Empire M & M Co. at 160 per sh, b 8.
7 shs Overman at 38@42½ per foot.
18 shs Overman at 39@43½ per foot, s 3.
10 shs Overman at 41@42 per share, s 5.
5 shs Overman at 42 per foot, s 10.
5 shs Overman at 45 per share, b 10.
20 shs Bullion at 35@36 per share.
10 shs Bullion, at 35 per share, b 3.
50 shs Golden Age at 11 per share, s 30.
10 shs Oakland Railroad at 50 der share.
5 shs Cal Steam Nav Co at 68 per cent.
$ 8,000 Legal Tender Notes at 68¼ per cent.
Amount of sales.....$ 76,334 00

Monday, November 20.

6 shs Alpha, G. H., at 770 per foot.
4 shs Alpha, G H, at 850 per foot.
4 shs Alpha, G. H., at 900 per foot, r w,
8 shs Alpha, G. H., at 940 per foot.
2 shs Yellow Jacket at 595 per foot, r w,
1 sh Yellow Jacket at 605 per foot,
6 shs Yellow Jacket at 610 per foot.
2 shs Yellow Jacket at 600 per foot, s 30.
1 sh Yellow Jacket at 605 per foot, r w.
2 shs Yellow Jacket at 630 per foot, s 3.
3 shs Yellow Jacket at 600 per share.
2 shs Yellow Jacket at 590 per foot, s 30.
1 sh Savage at 622½ per foot.
1 sh Savage at 625 per foot.
1 sh Chollar Potosi at 270 per foot.
2 shs Chollar-Potosi at 270 per foot, r w.
5 shs Chollar-Potosi at 275 per foot.
84 shs Ophir at 340 per foot.
2 shs Hale & Norcross at 155 per foot.
15 shs Imperial at 145 per share.
22 shs Imperial at 148 per share.
15 shs Imperial at 148 per share, r w.
5 shs Imperial at 150 per share, b 30.
10 shs Imperial at 148 per share, h 10.
7 shs Imperial at 149 per share.
35 shs Imperial at 150 per share, s 10.
5 shs Imperial at 150 per share, s 8.
5 shs Imperial at 150 per share, s 3.
6 shs Imperial at 150¾ per share.
6 shs Imperial at 150 per share, r w.
5 shs Imperial at 150 per share, b 10.
5 shs Imperial at 150 per share.
15 shs Imperial at 148 per share, a 10.
5 shs Imperial at 147 per share, s 15.
12 shs Bullion at 40 per share.
10 shs Bullion at 39 per share, b 10.
13 shs Bullion at 37½ per share.
6 shs Empire M & M Co. at 162 p. sh, s 3.
10 shs Overman at 42½ per share, a 3.
10 shs Overman at 42½ per foot.
2 shs Overman at 42 per foot.
2 shs Overman at 43 per share.
5 shs Cal. Steam Nav. Co. at 60 p ct, s 30.
$10,000 U. S. 7-30 Bonds at 69¾ per cent.

AFTERNOON SESSION.

12 shs Crown Point at 750 per foot.
4 shs Crown Point at 770 per foot.
4 shs Crown Point at 780 per foot.
4 shs Crown Point at 800 per foot,
4 shs Crown Point at 820 per foot, s 5.
4 shs Crown Point at 820 per foot.
4 shs Crown Point at 830 per foot.
1 sh Savage at 655 per foot.
1 sh Savage at 650 per foot s 30.
1 sh Yellow Jacket at 600 per foot.
1 sh Yellow Jacket at 610 per foot.
1 sh Yellow Jacket at 605 per foot.
1 sh Yellow Jacket at 620 per share.
4 shs Alpha, G H, at 950 per foot
12 shs Alpha G, H., at 850 per foot, s 6.
8 shs Alpha, G. H., at 940 per foot.
4 shs Alpha, G H., at 930 per foot.
1 sh Chollar-Potosi at 300 per foot.
6 shs Chollar-Potosi at 925 per foot.
24 shs Ophir at 360 per foot.
21 shs Ophir at 370 per share.
12 shs Ophir at 375 per foot.
12 shs Ophir at 380 per foot.
5 shs Empire M. & M. Co. at 170, b 3.
11 shs Empire M & M Co. at 170 per share.
10 shs Exchequer at 15 per share.
20 shs Exchequer at 16 per share.
2 shs Imperial at 147 per share.
5 shs Imperial at 147 per share, b 5.
19 shs Imperial at 147¾ per share.
5 shs Imperial at 152 per share, b 30.
15 shs Imperial at 151 per share, b 5.
25 shs Imperial at 150 per share.
7 shs Cal Steam Nav Co at 62½ per cent.
3 shs Cal. Steam Nav. Co. at 60½ per cent.
Amount of sales.....$122,649 00

Tuesday, November 21.

8 shs Gould & Curry at 850 per foot.
16 shs Gould & Curry at 900 per foot.
6 shs Belcher at 400 per foot, b 10.
3 shs Belcher at 401 per foot.
4 shs Alpha, G. H., at 850 per foot, b 30.
8 shs Alpha, G. H., at 800 per foot, s 30.
4 shs Alpha, G. H., at 815 per foot.
1 sh Yellow Jacket at 640 per foot, b 10.
1 shs Yellow Jacket at 640 per foot.
3 shs Yellow Jacket at 650 per foot.
1 sh Yellow Jacket at 675 per foot, b 20.
2 shs Yellow Jacket at 670 per foot.
2 shs Yellow Jacket at 650 per foot. s 30.
1 sh Yellow Jacket at 675 per foot.
1 sh Yellow Jacket at 680 per foot, s 3.
1 sh Yellow Jacket at 690 per foot, b 5.
1 sh Yellow Jacket at 700 per foot, b 20.
1 sh Yellow Jacket at 700 per foot.
2 shs Yellow Jacket at 680 per share, s 30.
1 sh Yellow Jacket at 700 per foot, b 5.
1 shs Yellow Jacket at 705 per foot.
1 shs Yellow Jacket at 715 per share, b 20.
1 sh Savage at 700 per foot.
3 shs Savage at 700@715 per foot, cash.
1 sh Savage at 720 per foot, b 30.
1 sh Savage at 700 per foot, s 5.
4 shs Crown Point at 800 per foot, s 30.
12 shs Savage at 800 per foot, cash.
4 shs Savage at 780 per foot, s 30.
15 shs Chollar-Potosi at 295 per foot.
6 shs Chollar-Potosi at 300 per foot
5 shs Chollar-Potosi at 300 per foot, b 3.
1 sh Chollar-Potosi at 305 per foot.
13 shs Chollar-Potosi at 310 per foot.
2 shs Chollar-Potosi at 400 per foot, b 5.
24 shs Ophir at 390 per foot, cash.
12 shs Ophir at 400 per foot b 5.
2 shs Hale & Norcross at 190 per foot.
2 shs Hale & Norcross at 195 per foot.
10 shs Hale & Norcross at 200 per foot.
2 shs Hale & Norcross at 210 per foot.
5 shs Empire M & M Co. at 170 per share.
5 shs Empire Mill & Mining Co. at 172½.
5 shs Empire M & M Co. at 174 per share.
20 shs Overman at 35 per foot, h 30.
5 shs Overman at 52½ per foot, s 3.
48 shs Overman at 53@55 per share, cash.
5 shs Overman at 50 per share, s 30.
50 shs Exchequer at 15 per share.
10 shs Imperial at 148½@148 per share.
8 shs Imperial at 150 per share, b 3.
5 shs Imperial at 151 per share.
2 shs Bullion at 50 per share.
10 shs Bullion at 55 per share, b 10.
10 shs Cal Steam Nav Co at 60 per ct, s 30.
8 shs Cal Steam Nav Co at 61 per ct, cash.
5 shs Spring Valley W W Co at 54 per ct.
100 shs N B & Mission R R Co, at 45 per sh.
$1,000 U. S. 7-30 Bonds at 70¾ per cent.

AFTERNOON SESSION.

3 shs Yellow Jacket at 735@730 per foot.
6 shs Yellow Jacket at 720 per foot, s 30.
4 shs Yellow Jacket at 740@750 per ft, b 20.
4 shs Yellow Jacket at 735 per foot.
1 sh Yellow Jacket at 740 per foot, b 20.
2 shs Yellow Jacket at 735@730 per ft, s 3.
2 shs Yellow Jacket at 730 per foot, s 30.
5 shs Yellow Jacket at 725@730 per ft, b 5.
10 shs Savage at 750@775 per foot, b 30.
2 shs Savage at 740 per foot, b 3
4 shs Crown Point at 780 per foot, b 14.
4 shs Savage at 800 per foot, b 20.
2 shs Hale & Norcross at 190 per foot.
4 shs Alpha, G H, at 850 per foot, b 30.
4 shs Alpha, G. H., at 820 per foot, s 30.
5 shs Chollar-Potosi at 315 per foot.
5 shs Chollar-Potosi at 312½ per foot, s 5.
6 shs Belcher at 410 per foot, a 10.
1 sh Belcher at 400 per foot, b 30.
36 shs Ophir at 415 per foot, b 30
5 shs Bullion at 70 per share, b 20.
35 shs Bullion at 64@60 per share, b 10.
15 shs Bullion at 52½ per share
20 shs Empire M & M Co. at 176@180.
10 shs Empire M & M Co. at 185 per share.
5 shs Empire M & M Co, 180 per sh, s 3.
5 shs Empire M & M Co. at 185 per sh, b 5
10 shs Exchequer at 14 per share, b 10.
30 shs Exchequer at 13½ per share.
4 shs Overman at 57½ per foot.
1 sh Overman at 58 per foot.
5 shs Overman at 50 pes share, s 30.
5 shs Imperial at 152½ per share.
5 shs Imperial at 150 per share.
1 sh S. S. F. Homestead at 300 p sh & lot.
Amount of sales.....$142,690 00

Wednesday, November 22.

6 shs Chollar-Potosi at 305 per foot.
5 shs Chollar-Potosi at 297 per foot.
4 shs Chollar-Potosi at 295 per foot, cash.
3 shs Chollar-Potosi at 300 per foot.
8 shs Chollar-Potosi at 290 per foot.
25 shs Chollar-Potosi at 290 per foot.
5 shs Chollar-Potosi at 220½ per foot, cash.
5 shs Chollar-Potosi at 290 per foot, s 3.
3 shs Chollar-Potosi at 292 per foot.
4 shs Chollar Potosi at 295 per foot.
8 shs Hale & Norcross at 180 per foot.
2 shs Hale & Norcross at 175 per foot.
2 shs Hale & Norcross at 170 per foot.
20 shs Alpha, G. H., at 800@780 per ft, s 30.
12 shs Alpha, G. H., at 800 per foot.
4 shs Alpha, G H, at 790 per foot.
4 shs Alpha, G. H., at 780 per foot, s 30.
12 shs Ophir at 400 per share.
24 shs Ophir at 395 per foot, cash.
22 shs Ophir at 400 per foot, b 30.
36 shs Ophir at 395 per foot.
24 shs Ophir 9per share, s 30.
24 shs Ophir at 405 per share, b 30.
24 shs Ophir at 392½ per foot.
12 shs Ophir at 402½ per share, b 30.
12 shs Ophir at 394 per foot.
12 shs Crown Point at 770 per foot, s 80.
4 shs Crown Point at 760 per foot, s 30.
8 shs Crown Point at 750@740 pr ft, s 30.
1 sh Savage at 705 per foot.
3 shs Savage at 675 per foot, s 30.
2 sh Savage at 675 per foot, cash.
1 sh Savage at 680 per foot.
6 shs Belcher at 600 per foot, s 30.
2 shs Yellow Jacket at 645 per foot.
1 sh Yellow Jacket at 640 per foot.
2 shs Yellow Jacket at 630 per foot, s 3.
2 shs Yellow Jacket at 620@625 per foot.
2 shs Yellow Jacket at 615@605 per foot.
6 shs Yellow Jacket at 600 per foot.
4 shs Could & Curry at 910 per foot.
10 shs Overman at 50@10 per foot, s 30.
13 shs Overman at 48@42½ per share.
11 shs Overman at 45 per foot.
5 shs Overman at 42½ per foot.
10 shs Sierra Nevada at 7 per share.
10 shs Sierra Nevada at 6 per share.
60 shs Lady Bryan at 3¾ per share, cash.
12 shs Confidence at 60 per share.
4 shs Confidence at 62½ per share
5 shs Empire M & M Co at 180 per sh, s 30.
16 shs Empire M & M Co. at 180, s 3.
14 shs Imperial at 150 per share, cash.
10 shs Imperial at 152 per share, b 15.
12 shs Imperial at 151 per share, cash.
10 shs Imperial at 149¾ per share, s 3.

10 shs Imperial at 153½ per share, b 10.
6 shs Imperial at 153 per share, b 10.
5 shs Imperial at 149 per share, s 5.
10 shs Imperial at 148 per share, s 10.
45 shs North Beach R. R at 45 per cent.
$ 5,000 Legal Tender Notes at 68, 3 30.

AFTERNOON SESSION.

4 shs Crown Point at 741 per foot, s 3.
4 shs Crown Point at 760 per foot, s 30.
15 shs Chollar-Potosi at 280 per foot.
7 shs Chollar-Potosi at 273 per foot.
15 shs Chollar-Potosi at 279½ per foot.
5 shs Chollar-Potosi at 277½ per foot, s 3.
3 shs Yellow Jacket at 610 per foot.
2 shs Yellow Jacket at 610 per ft, b 5.
3 shs Yellow Jacket at 610@625 per ft, b 5.
1 sh Yellow Jacket at 600 per foot, b 5.
2 shs Yellow Jacket at 595 per foot.
2 shs Yellow Jacket at 580 per share, s 3.
1 sh Yellow Jacket at 585 per foot, s 3.
4 shs Yellow Jacket at 590@595 per ft, b 30.
1 sh Yellow Jacket at 580 per foot
4 shs Gould & Curry at 9 0 per foot, b 3.
8 shs Gould & Curry at 9 25 per foot, s 3.
25 shs Imperial at 140 per share, s 10.
15 shs Imperial at 144 per share.
5 shs Imperial at 141 per share, b 5.
5 shs Imperial at 143 per share, b 5.
20 shs Imperial at 142½@142 per share.
10 shs Imperial at 142 per share, b 3.
5 shs Imperial at 141 per share.
15 shs Imperial at 140 per share, s 3.
10 shs Imperial at 140½ per share.
5 shs Imperial at 141 per share, b 10.
10 shs Imperial at 141 per share, s 3.
10 shs Imperial at 140½ per share.
5 shs Exchequer at 14 per share, b 10.
5 shs Exchequer at 14 per share.
10 shs Cal. Steam Nav Co. at 64 p et., s 30.
1 sh Cal Steam Nav Co at 64 per cent.
Amount of sales.....$149,830 00

Thursday, November 23.

1 sh Savage at 670 per foot, cash.
4 shs Savage at 666@665 per foot.
4 shs Chollar-Potosi at 277½ per ft, cash.
1 sh Chollar-Potosi at 277½ per foot, s 3.
1 sh Chollar-Potosi at 280 per foot, b 3.
2 shs Hale & Norcross at 150 per foot, s 30.
2 shs Hale & Norcross at 151 per foot, b 5.
4 shs Hale & Norcross at 155 per foot.
4 shs Hale & Norcross at 153½ per foot.
2 shs Hale & Norcross at 155 per ft, cash, b 3.
3 shs Yellow Jacket at 595@605 per ft, cash.
1 sh Yellow Jacket at 600 per foot, b 30.
1 sh Yellow Jacket at 595 per foot, b 30
1 sh Yellow Jacket at 595 per foot, b 10.
15 shs Yellow Jacket at 560 per foot, s 30.
2 shs Yellow Jacket at 570 per foot.
9 shs Yellow Jacket at 565 per foot.
2 shs Yellow Jacket at 555 per foot, s 30.
4 shs Gould & Curry at 940 per foot, s 3.
4 shs Gould & Curry at 950 per foot.
3 shs Belcher at 290 per foot, s 30.
3 shs Belcher at 305 per foot.
6 shs Belcher at 300 per foot.
8 shs Alpha at 75@80 per foot.
4 shs Alpha, G. H., at 795 per foot.
36 shs Ophir at 400 per foot, b 30.
24 shs Ophir at 390 per foot.
8 shs Crown Point at 720 per foot.
50 shs Golden Rule at 12 per share, b 30.
3 shs Overman at 45 per foot.
6 shs Overman at 49 per foot.
24 shs Exchequer at 14@13 per share.
65 shs Exchequer at 14½ per share.
50 shs Empire M & M Co. at 170, s 30.
1 sh Empire M & M Co. at 175 per sh, cash
10 shs Bullion at 50 per share, b 10.
2 shs Bullion at 42½ per share.
12 shs Bullion at 40 per share.
40 shs Bullion at 40 per share, b 10.
15 shs Imperial at 141 per share.
6 shs Imperial at 139 per share.
10 shs Imperial at 139 per share, cash.
15 shs Imperial at 138 per share.
10 shs Imperial at 139 per share, s 3.
5 shs Imperial at 141 per share, b 10.
40 shs Imperial at 140 per share.
10 shs Imperial at 140 per share, s 10.
10 shs Imperial at 138 per share, s 30.
10 shs Imperial at 141 per share, Monday.
5 shs Imperial at 141 per share, cash.
15 shs Imperial at 142½ per share.
50 shs Omnibus R R at 46 per share.
8 shs Cal Steam Nav Co at 65@64½ per cent.
1 sh Cal. Steam Nav. Co. at 65, per ct, s 3.

AFTERNOON SESSION.

2 shs Hale & Norcross at 160 per foot.
2 shs Hale & Norcross at 150 per foot, s 30.
6 shs Hale & Norcross at 155 per foot.
2 shs Hale & Norcross at 154 per foot, s 3.
2 shs Hale & Norcross at 155 per foot, s 30.
32 shs Alpha, G. H. at 800 per foot.
12 shs Alpha, G. H., at 795 per ft, s 3.
4 shs Alpha, G. H. at 800 per foot, b 30.
4 shs Alpha, G. H., at 775 per foot, s 30.
1 sh Savage at 640 per foot.
2 shs Savage at 645 per foot.
2 shs Savage at 645 per foot, s 3.
1 sh Savage at 655 per foot.
2 shs Savage at 660 per foot, b 5.
1 sh Savage at 65 per foot.
1 shs Yellow Jacket at 570 per foot.
3 shs Yellow Jacket at 600 per foot, b 30.
4 shs Gould & Curry at 940 per foot.
20 shs Exchequer at 14½ per share.
40 shs Exchequer at 14 per share, b 3.
10 shs Imperial at 139 per share, s 30.
5 shs Imperial at 142½ per share b 30.
5 shs Imperial at 140 per share, s 10.
30 shs Imperial at 141 per share.
5 shs Imperial at 140 per share, b 3,
5 shs Imperial at 139 per share.
25 shs Imperial at 140 per share.
3 shs Imperial at 139 per share, s 3.
15 shs Imperial at 139 per share, s 5.
5 shs Imperial at 140 per share, b 15.
5 shs Imperial at 138 per share, s 30.
10 shs Bullion at 42 per share.
10 shs Bullion at 43 per share, b 10.
5 shs Overman at 45 per foot.
5 shs Overman at 40 per share, s 30.
5 shs Overman at 47 per share.
5 shs Overman at 46 per share.
Amount of sales.....$152,148 00

Friday, November 24.

1 sh Savage at 750 per foot.
16 shs Crown Point at 800 per foot, b 30.
4 shs Crown Point at 780 per foot, b 30.
36 shs Crown Point at 760@770 per foot.
12 shs Crown Point at 800 per share, b 30.
20 shs Yellow Jacket at 600@610 per share.
3 shs Yellow Jacket at 600 per foot, s 30.
1 shs Yellow Jacket at 620 per foot, b 15.
7 shs Cal S Nav Co at 67½@69 per ct, s 30.
9 shs Cal S Nav Co at 70 per cent
50 shs N B & Mission R. R. at 45 per share.
140 shs Imperial at 135@138 per share.
20 shs Imperial at 137 per share.
20 shs Imperial at 139 per share, b 30.
15 shs Challar at 290@295 per foot.
16 shs Alpha, G. H. at 840@850 per foot.
12 shs Alpha, G. H. at 840@860 per ft, s 30.
4 shs Alpha, G. H. at 900 per foot, b 30.
15 shs Overman at 47@46 per foot.
3 shs Belcher at 330 per foot, s 5.
25 shs Sierra Nevada at 6 per share.
40 shs Exchequer at 15@14 per share.
6 shs Empire M. & M. Co. at 177½ per sh.
7 shs Confidence at 60 per share.

AFTERNOON SESSION.

1 sh Savage at 760 per foot, b 10.
20 shs Crown Point at 800@780 per foot, b 30.
12 shs Crown Point at 780@760 per foot, s 3.
1 sh Yellow Jacket at 620 per foot.
140 shs Imperial at 135@131 per share.
20 shs Imperial at 131 per share, s 10.
1 sh Hale & Norcross at 165 per foot.
6 shs Belcher at 335@320 per foot.
6 shs Belcher at 305 per foot, s 30.
60 shs Ophir at 395 per foot.
20 shs Exchequer at 15 per share.
8 shs Alpha at 860 per share.
1 sh Confidence at 62 per share.
5 shs Overman at 40 per foot.
160 shs Sierra Nevada at 6@7 per share.
2 sh Steam Nav Co at 69 per cent.
Amount of sales.....$128,630 00

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY AND'G DELINQ'T DIST.	DAY OF SALE.
Astor, Storey co, Nev.,	$1.54	Nov 11	Nov 27*
Arizona Copper, Arizona,	25c	Nov 25	Dec 8
Atlantic and Pacific		Special Meeting,	Dec 11
Alhambra, Lyon co., Nev.,	$1.50	Dec 9	Dec 22
Baltimore American, El Dorado co.,	$2	Dec 20	Jan 3
Butte, Humboldt co.,	$1.50	Nov 15	Nov 27
Bunker Hill, El Dorado co.,	$1.50	Dec 1	Dec 15
Comet, Petroleum, Humboldt co,	30c	Nov 18	Dec 4*
Chloride Ledge, Calaveras co.,	$1	Nov 25	Dec 9*
Cosata, Sinaloa, Mex.,	$1	Nov 17	Nov 30
Camargo, Lander co., Nev.,	$5	Nov 25	Dec 9*
Chipiomena, Sonora, Mex.,	$5	Dec 2	Dec 16*
Caledonia Tunnel, Gold Hill, Nev.,	$2	Dec 11	Dec 21
Cole, Storey co., Nev.,	$1	Dec 24	Jan 6
Chicago, Lander co., Nev.,	$2	Dec 30	Jan 15*
Daney, Lyon co., Nev.,	$1.50	Nov 6	Nov 25
Daney		Meeting,	Dec 4
El Tesoro, La Paz, Lower California,	$1	Nov 16	Nov 28
Eagle, Amador co.,	15c	Nov 25	Dec 14*
Exchequer, Storey co., Nev.,	$2	Nov 24	Dec 9
El Portenio, Mex	65c	Nov 18	Dec 2
Franco Americana, San Antonio, L. C.,	25c.	Nov 21	Dec 4
George Washington, Alpine co.,	$1		Dec 9
Golden Rule, Dividend		Payable	Oct 20
Gold Canon Cons., Storey co., Nev.,	55c	Nov 6	Nov 25
Gold Hill Tunneling, Storey co., Nev.,	75c	Dec 6	Dec 23
Guasaparis, Chihuahua, Mex.,	$10	Dec 7	Dec 23
Goodwin, Lander co., Nev.,	$2	Dec 9	Dec 26*
Imperial		Dividend	Payable Nov 10
Jewett, Storey co.,	$1	Nov 11	Nov 25*
Jefferson, Yuba co		Dividend	$15
Knox, Alpine co.,	40c	Nov 11	Nov 25*
Keokuk, Contra Costa co.,	10c	Dec 16	Dec 30
Leon, Esmeralda co., Nev.,	35c	Nov 17	Dec 18
La Favorita, Sonora, Mex.,	50c	Nov 25	Dec 9*
La Fernandez, Sonora, Mex.,	$5	Nov 23	Dec 8
Libertad, Sonora, Mex.,	$5	Nov 21	Dec 6
Maria, Chihuahua, Mex.,	$1	Nov 18	Dec 2*
Mount Davidson, Storey co., Nev	$1	Dec 2	Dec 20*
Moss Ledge,	$5	Nov 30	Dec 15
Nuestra Senora de Guadalupe, Jalisco,	$6	Dec 8	Dec 18
Nuestra Senora de Guadalupe, Durango,	$1	Dec 4	Jan 20
North American, Nev.	$6	Levied	Nov 15
Oroville, Butte co.,	$1	Nov 18	Dec 2*
Overman, Storey co., Nev.,	$25	Dec 19	Jan 3
Porter, Butte co., Cal.,	$1	Nov 18	Nov 30
Peninsula, San Antonio District, L. Cal.,	$10.	Nov 17	Nov 20
Porter, Butte co		Annual Meeting,	Nov 27
Santiago		Annual Meeting,	Nov 23
Salambo, Tuolumne co.,	75c	Nov 6	Nov 25
Sierra Valley, Plumas co.,	$1	Nov 13	Nov 25
Salambo, Tuolumne co.,	75c	Nov 6	Nov 25
Santa Cruz, San Antonio, Lower Cal.,	$3	Nov 17	Nov 29
Savage, Storey co., Nev.,	$100	Nov 28	Dec 13
Santa Cruz, Petroleum,	4c	Nov 20	Dec 14*
Segregated Belcher, Gold Hill,	$4	Nov 25	Dec 9*
San Francisco "Moss Ledge,"	$5	Nov 30	Dec 15
Simpson, Alpine co.,	25c	Dec 2	Dec 16*
Spring Hill, Nevada co., Cal.,	$10	Dec 1	Dec 12
Sierra Silver, Douglas co., Nev		Annual Meeting,	Dec 11
Sierra, Douglas co., Nev.,	$3	Nov. 25,	Dec 9
Southern Light		Caution—	Nov 20*
Table Mountain, Calaveras co.,	50c	Dec 2	Dec 18*
Triunfo		Meeting,	Nov 25
Triunfo, San Antonio, L. C.,	$1	Dec 1	Dec 14
United States, Storey co., Nev.,	50c	Dec 16	Dec 30*
United States		Annual Meeting,	Dec 25*
Wide West, Esmeralda co.,	$5	Nov 18	Dec 4*
White & Murphy, Storey co., Nev.,	$3.50	Dec 4	Dec 15
Wide West, Alpine co.,	$1	Dec 16	Dec 30*
Yellow Jacket, Storey co., Nev.,	$100	Dec 15	Jan 15
Yuba, Brown's Valley,	$2.50	Dec 16	Dec 30*
Zenith, Calaveras co., Cal.,	$3.25	Dec 9	Dec 23*

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST
OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Baltimore American	Nov 18	2 00
Caledonia T & M Co	Nov 10	2 00
Exchequer	Oct 24	2 00
Gold Hill Tun & M Co	Nov 3	75
Hale & Norcross	Oct 27	25 00
Imperial	Oct 28	50
Keystone	Nov 8	10 00
Mount Davidson	Nov 7	1 00
North American	Nov 16	50
North Comstock	Nov 2	25
Overman	Nov 18	25 00
Savage	Oct 28	100 00
Segregated Belcher	Oct 23	4 00
Schiller	Nov 11	1 00
Utah	Oct 31	6 00
White & Murphy	Nov 3	5 50
Yellow Jacket	Nov 14	100 00

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale.
American Basin	Dec 18	Virginia
Astor	Nov 27	San Francisco.
Bishop	Dec 5	Gold Hill
Globe	Nov 23	Virginia
Gold Canon	Nov 25	San Francisco.
Jewett	Nov 25	San Francisco.
Kossuth	Dec 2	Virginia
Mount Moriah & Lincoln	Nov 28	Gold Hill
Nevada	Dec 8	Virginia
Orleans Flat	Nov 24	Virginia
Sand Springs, Salt	Nov 30	Virginia
Union	Dec 18	Virginia

San Francisco Stock and Exchange Board.

SAN FRANCISCO, November 25th, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ —	$ 14
Gov. Legal Tender Notes	67¾	68
State Bonds, 7 ₱ cent	86½	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1858, 6 ₱ cent	70	..
San Francisco Bonds, 1858, 6 ₱ cent	65	..
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	60	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	77½
Butte County Bonds, 10 ₱ cent	..	80
California Navigation Co	69½	70
State Telegraph Stock	31	32
San Francisco Gas Co	100	105
Sacramento Gas Co	..	75
Spring Valley Water Co	53	54
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	45	47
Central Railroad Co	..	..
North Beach and Mission	45	46
MINING STOCKS.		
Ophir	$ 390	$ 400
Gould & Curry	925	975
Empire M. & M. Co	....	....
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	740	750
Chollar-Potosi	292	295
Hale & Norcross	145	156
White & Murphy	....	....
Sierra Nevada	5	8
Daney	..	10
Burning Moscow	..	..
Lady Bryan	..	..
Sacramento & Meredith	....	....
Burnside	....	....
Iowa	....	....
El Dorado	....	....
North American	....	....
Baltimore American	....	....
Yellow Jacket	610	615
Overman	46	48
Cedar Hill Tunnel	....	....
Wide West	1	2
Crown Point	785	790
Antelope	....	....
Emeralda	1	5
Atna	....	....
Real del Monte	..	15
Silver Hill	....	....
Utah	....	....
Justis	....	..
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co	....	....
Melones and Stanislaus	....	....
Sheba	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H	42	43
Buckeye	....	....
Dick Sides	....	....
Imperial	136	137
Alpha	850	860
Bajazett	..	....

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	80@ 81
do pickled ₱ lb	65@ 75
do Oregon	50@ 60
do New York, ₱ lb	40@ 50
Cheese, ₱ lb	25@ 35
Honey, ₱ lb	30@ 40
Eggs, ₱ doz	@ 70
Lard, ₱ lb	33@
Hams and Bacon, ₱ lb	28@ 30
Cranberries, ₱ gal	75@ 1 00
Potatoes, sweet, ₱ lb	2@ 5
do Irish, ₱ lb	1@ 2½
Tomatoes, ₱ lb	6@ 8
Onions, ₱ lb	6@ —
Apples, No. 1, ₱ lb	4@ 10
Pears, table ₱ lb	3@ 10
Plums, dried, ₱ lb	15@ 25
Peaches, dried, ₱ lb	15@ 25
Grapes, ₱ lb	5@ 15
Oranges, ₱ doz	75@ 1 00
Lemons, ₱ doz	1 50@ 2 00
Chickens, apiece	62@ 1 00

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 50 @ 7 00
Do Superfine	6 25 @ 6 75
Corn Meal, ₱ 100 lb	@ 4 00
Wheat, ₱ 100 lb	2 00 @ 2 05
Oats, choice, ₱ 100 lb	1 45 @ 1 50
Barley, ₱ 100 lb	1 5½@ 1 10
Beans, ₱ 100 lb	2 2o @ 3 50
Potatoes, ₱ 100 lb	1 00 @ 1 12
Hay, ₱ ton	15 00 @17 50
Live Oak Wood, ₱ cord	8 00 @10 00
Beef, on foot, ₱ lb	6@ 7
Beef, extra, dressed, ₱ lb	12½@ 15
Sheep, on fool	1 00 @ 2 00
Hogs, on Foot, ₱ lb	10 @ 12
Hogs, dressed, ₱ lb	15 @ 16

Groceries, Etc.

Sugar, crushed, ₱ lb	16½@ —
Do China	10 @ 12½
Coffee, Costa Rica, ₱ lb	27½ @ —
Do Rio	27½ @
Tea, Japan, ₱ lb	85 @ 95
Do Green	70 @ 90
Hawaiian Rice, ₱ lb	10 @ 11
China do	8 @ 10
Coal Oil, ₱ gal	85 @ 95
Candles, ₱ lb	24 @ 25
Ranch Butter, ₱ lb	55 @ 70
Isthmus do	40 @ 42
Cheese, California, ₱ lb	20 @ 26
Eggs, ₱ doz	60 @ 65
Lard, ₱ lb	24 @ 25
Ham and Bacon, ₱ lb	26 @ —
Shoulders	20 @ 22
Soap—Pale & C. O	14 @
Castile	14½@ —

San Francisco Metal Market.

PRICES FOR INVOICES.

Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

SAN FRANCISCO, Nov. 25th 1865.

IRON.—Duly: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1¼c ₱ lb; Sheet, polished, 3c ₱ lb, common, 1¾@ 1¾c ₱ lb; Plate 1¾c ₱ lb; Pipe, 1¾c ₱ lb; Galvanized 2½c ₱ lb.

Scotch and English Pig ₱ ton.....40 @—
American Pig ₱ ton.....38 @40
Refined Bar, bad assortment, ₱ lb.....2½@—
Refined Bar, good assortment, ₱ lb.....3¼@—
Boiler No. 1 to 4.....4 @ 4½
Plate No. 5 to 9.....4½@—
Sheet No. 10 to 13.....4 @—
Sheet No. 14 to 20.....5 @—
Sheet No. 24 to 27.....5½@—

COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 24c ₱ lb.
Sheathing ₱ lb.....50 @52
Sheathing, Old.....25 @35
Sheathing, Yell.....30 @32
Sheathing, Old Yell.....12 @12
Bolts.....— @—
Composition Nails.....30 @32

TIN PLATES.—Duty: 2½c ₱ lb.
Plates, Charcoal, IX ₱ box.....10 @12
Plates, I C Charcoal.....9 @10¼
Roofing Plates.....9 @ 10
Banca Tin Slabs, ₱ lb.....41 @42½

STEEL.—English Cast Steel, ₱ lb.....12½@16

QUICKSILVER.—Per lb.....— @65
For export.....55 @—

ZINC.—Sheets ₱ lb.....9½@10

LEAD.—Pig ₱ lb.....7 @ 8
Sheet.....10 @12
Pipe.....10 @12
Bar.....9¾@10

Rates of Advertising
IN THE
MINING AND SCIENTIFIC PRESS.

Mining Advertisements.

Notices of Meetings, per square, one week	$1 00
Notices of Meetings, per square, four weeks	2 50
Assessment Notices, of ordinary length, four weeks	6 00
Assessment Notices, of more than usual length, for each additional square	2 50
Delinquent Sales, per square, two weeks	2 00
Delinquent Sales, per square, three weeks	2 50
Postponements, per square, one week	1 00
Ships of Advertisements, printed for meetings or assessments, per hundred	1 00
Advertising blanks and circulars	Free

Miscellaneous Advertisements.

One week, per square	$1 00
One month, per square	2 50
One quarter (3 months), per square	7 50

Advertisements of great length, or of special character, inserted by contract on the most favorable terms.

☞ *Ten lines of solid advertising type constitutes a square.* ☜

Terms of Subscription.

THE MINING AND SCIENTIFIC PRESS is published every Saturday morning (containing sixteen pages—size of *Harper's Weekly*) at the following rates:

One copy, one year, by mail, in advance	$5 00
One copy, six months, by mail, in advance	3 00
One copy, one year, by express	6 50
One copy, six months, by express	3 50
Five copies, one year, by mail, in advance	20 00
By city carriers, per month	50
Single copies	12½
Monthly Series (or parts), containing 4 Nos	50
Monthly Series, containing 5 Nos	62½

THE CIRCULATION of the PRESS, already extensive, is rapidly increasing, and substantial men who can profit by widely disseminating information of their business amongst the most intelligent, influential and industrial classes of the Pacific States and Territories will find no more effectual or economical medium for advertising

DEWEY & CO., Proprietors.

Patent Agency and Job Printing Office, 505 Clay street, San Francisco. July 1 1865

Just and True Economy
IN MINING ADVERTISING.

The Proprietors of the MINING AND SCIENTIFIC PRESS would call the especial attention of MINING SECRETARIES, TRUSTEE and SHAREHOLDERS, to a few substantial reasons for the publication of Mining Notices in their journal—the first and only important newspaper of its class published upon this coast.

1st. The PRESS enjoys a large and permanent subscription list, having a more universal circulation among shareholders and men intimately connected with mining interests than any other publication.

2d. Under the present law the publication of all mining notices on Saturday, in a weekly journal, complies as fully with the statutes as a daily publication. It is generally found to be equally as convenient for secretaries, and decidedly preferable to stockholders who have not time to examine throughout every issue of a daily.

3d. Economy in mining should always be looked upon with favor, and the cost for weekly advertising in the PRESS is less by ONE HALF than the paper of any other journal in this city possessing a respectable circulation.

4th. The publishers of the PRESS, making the mining interest their especial care, take particular pains to assist in the avoidance of errors in advertising. Our print is also more clear and perfect than can be expected in such papers as are hurriedly issued from cylinder presses.

5th. Our "Shareholders' Directory" forms a complete index of all mining notices published in San Francisco, by reference to which shareholders can at once see if their company is advertised, and whether the same is inserted in the PRESS or some other paper.

6th. Many copies of the PRESS are bound by prominent professional men, mechanics, secretaries, brokers, shareholders and others, as an important record for future reference, rendering our mining advertising, on every class, in its columns, of peculiar and permanent value.

7th. The benefit of having all mining notices consolidated in one newspaper, for the common convenience of shareholders, secretaries, and others who have occasion to refer to the same, is obvious. With this view we have established our rates at only fair, living prices, believing that a journal like ours, untrammeled by party, creed, or prejudice, is the only medium which can reasonably ask for such a consolidation of mining patronage.

8th. Advertisements in the columns of the PRESS, after their first insertion, are arranged alphabetically. Our present list is equalled only in one instance by that of any other journal. Shareholders, as well as strangers, naturally turn their attention to a mining journal for information concerning the mines and mining matters.

LAST, BUT NOT LEAST.—Our sheet (having been recently enlarged to the size of Harpers' Weekly) is now only equalled in its dimensions by one mining paper in existence—the *London Mining Journal*. Published in this, the greatest mining field of the world, we desire that the PRESS shall have no superior. We can only realize our cherished object of building up a reliable advocate of the science and business of mining, which will be of just honor and profit to our community, by experience and liberal patronage. The bestowal of such favors only as naturally belong to us, and which it is clearly for the benefit of the mining fraternity to extend, is all that is requisite, and we are confident we shall receive it

DEWEY & CO.,
4v11 Office Mining and Scientific Press.

POSTPONEMENTS.—We would again call the attention of Secretaries to a certain point of the mining law, too commonly overlooked, viz: The requirement that all postponements must be added previous to the expiration of the regular publication of assessment or sale notices.

PRINTING FOR THE HOLIDAYS promptly executed in any style to suit tradesmen, at our JOB OFFICE, 505 Clay street.

Mining Summary.

CALIFORNIA.

BUTTE.—The Oroville *Record* of November 11th, says: There are several parties prospecting for gold-bearing quartz at Mountain Spring, and some rich lodes have been discovered. No less than five quartz mills will be erected in this township the next spring. A lead recently discovered near Lumpkins, assays, the best to $800, and the poorest to $90 per ton. Men have been at work on the Carlton Creek ledge for several years, getting out quartz and washing it in sluices, making good wages and saving the quartz. We understand that they contemplate erecting a mill on their lead in the spring. We may expect a lively time in quartz next summer.

PLUMAS.—The Quincy *Union* of Nov. 11th, says that considerable excitement has existed among the quartz men in that county during the past week, occasioned by the discovery of some very rich quartz in Mohawk Valley, near Fred. King's ranch. The ledge, or what is supposed to be the ledge, was accidentally discovered by a little boy named Wiseman, who, while playing, picked up some quartz containing gold, which he carried home, when Messrs. Wiseman and King went out and commenced prospecting near the spot where the specimen was found. They sank a shaft to the depth of ten feet, and took out some very fine specimens of gold-bearing quartz. They then located two thousand feet on the ledge. They intend crushing a few tons of the rock in an arastra.

The placer mines in this county are generally doing well. Messrs. Culp & Turner, on Indian Hill, are taking out a large amount of gold. At Sawpit, work is progressing finely. Some of the companies are taking out the richest kind of pay. On Twelve-Mile Bar and Rush Creek Flat, the miners are in good spirits—their claims are paying well. The Spanish Peak company is pushing its tunnel ahead, and is taking out some gravel which prospects very well. On the North Fork, the Cariboo is paying a half ounce per day to the hand. The Shamrock is doing equally as well.

BUTTE.—The Jefferson, of Browns' Valley, after another two-weeks' run, have cleaned up $12,000. The quartz at the bottom of their shaft still continues exceedingly rich.

NEVADA.—The Ophir mine, says the Grass Valley *Union*, is becoming fabulously rich. On Saturday last half a ton of rock was taken out, which, at the lowest estimate, will yield $10,000 to the ton.

The Union Hill company have just crushed eighty tons of rock, which yielded $1,800—$22 to the ton—an excellent yield for a vein seven feet in thickness.

The North Star is steadily sending in its weekly returns. They have recently worked into very rich rock.

The Norambagua mine, located at Forest Spring, has just crushed sixty-five tons of rock which yielded seveuty dollars a ton. The last crushing of the Heuston Hill mine paid $58.50 to the per ton.

Messrs. Scudder & Co. have recently refused $45,000 for their claim, offered by parties in this city. It is also said that Pratt & Co. have refused $50,000 for their claim.

The Nevada *Transcript* says, rock from the Eddy ledge, which is located a short distance north of Cayoteville, was recently crushed at Palmer's mill, and paid about $76 to the ton. The ledge is large and easily worked.

The product of the blue cement claims of Little York is continually increasing. New mills are being constructed, and new claims opened; and this increase will continue for a number of years. All that labor can do is being done in every kind of mining in this county. Capitalists are also becoming interested in this class of mining.

Excelsior.—The California mill, at the Excelsior mines, was started on the 15th instant. This is the first mill that has as yet got to work in the new mines. In a short time we may expect to hear good news from Excelsior.

PLACER.—The *Stars and Stripes* speaks of a very rich discovery at Doty's Flat. Mr. Walter, at the depth of thirty feet, has a twelve or fourteen-inch vein, which shows a large amount of free gold. He has, at several different times, taken a candle-box full of the rock to his cabin and pounded it in a hand mortar, with hut slightly varying results—the yield having been, in every instance, from seven and a half to nine dollars to the box-full.

Silver in Placer.—Mr. W. H. Ault has recently taken some specimens of quartz from the Pacific Silver Mining Company claim, near Newcastle, with which he experimented by placing it for a few minutes in a blacksmith's furnace. The experiment proved the rock to be exceedingly rich in silver, which was brought to the surface in innumerable globules. Portions of the rock also show an encouraging prospect of free gold. The lead of this company is located two and a half miles northwest of Newcastle, and near by another claim previously noticed by us, and also located for silver. These silver discoveries are creating quite an interest in that locality, and much prospecting is going on there.

EL DORADO.—The Placerville *Mirror* states that a very rich and extensive discovery of gold-bearing quartz has been made near Falling Leaf Lake, some seven or eight miles from Yank's Station, in the northeastern portion of that county. The lead is said to be twenty feet wide in places, and will pay $35 per ton. The lead is a geological curiosity, being situated exactly in the "gap," where the two formations of rock come together, so that the casing on the one side is granite and the other slate.

Such a location denotes it to be a true vein, and warrants its thorough development.

TUOLUMNE.—A correspondent of the Sooora *Democrat* says the following is a list of the quartz mills in Tuolumne county:

Excelsior mill, 10 stumps; Daegner's, 10 stamps; Soulsby, 10 stamps; Confidence, 10 stamps; Eureka, 20 stamps; Summer's, 10 stamps; Lambardo's, 10 stamps; Wheeler's, 10 stamps; Raymond's, 10 stamps; Summit Pass, 10 stamps; Shanghae, 10 stamps; Labetoure's, 10 stamps; Patterson's, 10 stamps; Rawhide, 10 stumps; Reesc, 5 stamps; Preston's 10 stamps; Golden Rule, 10 stamps; Heslip's, 10 stamps; App's, 10 stamps; Blue Gulch, 10 stamps; Snyder & Co.'s. 5 stamps; Bay State, 5 stumps; Jones & Woodman's, 10 stamps; River Side, 20 stamps; Monitor, 10 stamps; Pirate, 10 stamps; Buchanan, 10 stamps; Hunter, 10 stamps; Grizzly, 20 stamps—31 mills in all, with an aggregate of 325 stamps.

In addition to the above, there are also in process of construction the Zucarman mill, on Bald Mountain, 10 stamps; Rawhide mill, on the Rawhide ranch, 20 stamps; Consuelo and Bonita, on the north fork of the Tuolumne, 20 stamps each.

CALAVERAS.—The *Chronicle* says that recent developments show that in the Blue Mountain region we have silver-bearing lodes which will yet prove rich and inexhaustible; along the lower part of the county, running from Campo Seco to Copperopolis, are veins of copper which will build railroads and give employment to thousands of industrious miners; through the interior of the county are also gold bearing quartz leads, only waiting for the prospector and capitalist.

It is said that some Chilanos have discovered an immiensely rich quartz ledge oear Donallan's bridge, in this county.

The total shipments of copper ore from the Union mine for the week ending November 16th, was 531¼ tone. Owing to the late rain teams have been scarce during the past six days, and the shipments are therefore lighter than they otherwise would have been.

AMADOR.—The Jackson *Ledger* says that the "My Mary Ann" lode is prospecting remarkably well, and that the Anaconda continues to turn out ore as rich as ever. The owners have a large amonnt on hand that will average from fifty to sixty dollars to the ton.

A large pack-train passed through Jackson a few days ago, *en route* for Stockton. Each animal was laden with 300 pounds of quartz from the Pioneer mine, near Volcano, lately purchused hy C. T. Meader & Co.

TULARE.—Accounts of a highly favorable nature still continue to come in from the Clear Creek mines. The town of Havilah is rapidly growing in importance. There are four quartz mills now in operation there, running twenty-nine stamps, and twelve more in process of construction, which will aggregate 122 additional stamps.

VIRGINIA CITY AND VICINITY.

Nine hundred tons of Yellow Jacket rock were crushed at Birdsall & Carpenter's mill in 25 working days of last month, yielding $33.40 per ton. The Dayton *Sentinel* asks if any 20-stamp water mill ever beat this.

NYE COUNTY.—The mines of this county seem to be in active progress of development. There are four quartz mills in actual operation—one of 5-stamps at Washington; one of 10 at Ione; one of 10 at Silver Peak and one of 3 at Red Mountain. There are also several small prospecting mills done by horse-power. The mills in process of construction are four in number. All the ore of this district yields much better for heing roasted. The expense of crushing and roasting is now about $75 per ton for custom work.

Smelting works for reducing ore containing a large proportion of argentiferous galena, are now being erected about six miles southwest of Washington at the St. Helena mine. The aggregate of the metalliferous lands of this county are set down as equal to one-fifth its entire area. It is estimated that ubout $100,000-in bullion has been extracted during the past year, about eight per cent. of which is gold. There are numerous ledges of argentiferous galena in this county; also copper lodes. We gather the above items from the annual report of the county surveyor, as published in the *Territorial Enterprise.*

HUMBOLDT.

There appears to be an unusual degree of activity manifested by the miners of this district at the present time. We condense from the *Register:*

Black & Brother have sent for a small prospecting mill to oe put up on Zavala ledge; the rock they are taking out fully justifying such an investment.

Fall's mill is still crushing; but is unable to amalgamate by reason of a delay in receiving a lot of dies for the pans.

The Montezuma mine, by latest explorations, is fully up to all hopes. The ledge was carried for some distance down in the shaft, with nothing but barren quartz; but the mineral has come in again, as rich as ever, and about six feet wide.

The Chrysopolis mill at the upper end of the Etna is nearly ready to crush.

STAR DISTRICT.—Much activity appears to prevail in this district; large companies are employed exploring the mines, each with sufficient capital to fully develop and put in successful operation the several mines in which they are interested. The American Basin Company is building and thoroughly refitting the old Sheba Mill, for the purpose of reducing their ores. The Sheba Company, owning the mine and mill of that name, is working its ores at present by legal process.

TRINITY AND SACRAMENTO DISTRICT.—The mines in Sacramento District and the Arabia mines in Trinity District, are the great discoveries of the day in this region. The mines are described as of extraordinary development, so much so that the beholder can scarcely realize the fact that they are immense masses of silver bearing rock.

Arabia District is in a volcanic region. Granite crops out in many places in the vicinity of the ledges, but none of them, that we can remember, are cased in it—they being all in porphyry. The adjacent country shows evidence of recent and violent volcanic action, the hills to the north and northwest being composed of lava and igneous rocks.

A correspondent of the *Register* thinks it would be difficult anywhere in the world to find in the same compass so many ledges containing such immense quantities of paying ore.

ESMERALDA.

The Blind Springs district appears to be calling away much interest from Aurora and vicinity. This new locality is situated about fifty miles below Aurora and is pronounced one of the richest districts in the State. The ledges are numerous, of moderate size, well defined, and very rich. The Diana is the principal claim of the district. The rock contains no base metals, silver and copper alone being found, and is easily worked. They have a 4-stamp mill running on their second class rock, which pays $900 per ton. About 1,500 pounds of ore is worked per day, and twenty pounds of amalgam are daily retorted. The first class rock is sacked and shipped to England, $800 per ton being advanced at the mine. The ledges, generally in this district exhibit characteristics similar to the Diana, and mostly pay from the surface. Wood and water are abundant.

REESE RIVER.

We learn from the *Reveille* that 1,600 pounds of rock from the Pierre mine recently crushed, yielded $770. Fifty tons from the Whitlatch Yankee Blade cleaned up $11,775—equal to $230 per ton. The yield was within eight per cent. of the assay.

The Echo ledge situated in the Yankee Blade ravine, about five hundred yards west of the Whitlatch Yankee Blade mine, shows a good sized vein in regular walls, and yields an excellent quality of ore. The company has had several workings at the mill of the ore from this ledge, which in every instance, gave handsome returns.

The Cast Steel ledge, of the celebrated Vineyard group, lies about five hundred yards south of the Vineyard claim. An incline has been sunk on this to the depth of thirty feet, exhibiting a two foot vein. An amount of the ore has been worked at mill, yielding over $300 per ton.

The Emma Seymore, also regarded as one of the most valuable of the Vineyard group, and is located about 200 yards southeast of the Vineyard, and 300 west of the Midas mill. Ore from the vein has been assayed yielding over $450, and by mill process it has been worked as high as $250.

Fourteen tons of the Chase ledge, in N. Y. Canon, taken out by two men in ten days yielded $2,751. The Josephine, near by is opening remarkably well.

The Granite State, Wall Street, Katskill and Newbury is a line group of ledges near by, in the Yankee Blade ravine. The vein matter of these ledges consists of superior chloride and sulphuret ores. There are a large number of other promising ledges in this vicinity.

The Twin River Company (New York) are putting up a 20-stamp mill. The resident agent of the company is Mr. R. B. Canfield, and the working of the mines has been placed under the management of Captain Shears, an experienced miner, who was for several years connected with the copper mines of Lake Superior in the capacity of Superintendent.

THE NEW IDRA QUICKSILVER MINES.—The Company owning this valuable mine have not been working it for two years past in consequence of a protracted lawsuit. This having been at last decided, the Company have resumed operations. At the suspension of work the company were extensively in arrears with their workmen. Last month they paid an installment of 45 cents on the dollar on all such indebtedness, and will pay the balance next month. At the recent annual election of Trustees, the following persons were elected: Albert Dibblee, William Neely Thompson, C. O. Wardwell, W. H. L. Barnes and James Paterson. The Trustees subsequently elected, W. H. L. Barnes President of the Board of Trustees and of the Company, and C. O. Wardwell Vice President. The affairs of the Company are in a better condition than they have been for years.

IMMENSE SIZE OF THE PYRAMIDS.—A United States naval chaplain who has recently visited the great pyramid of Cheops, in Egypt, gives the following graphic idea of the immense size of these wonderful remains of antiquity. He says: Take a hundred of the New York churches of the ordinary width, and arranging them in a hollow square twenty-five on a side, and you would have scarcely the basement of this pyramid; take another hundred and throw in their material into the hollow square and it would not be full. Pile on all the stone and brick of Philadelphia and Boston, and the structure would not be as high and solid as this great work of man. One layer of block was long since removed to Cairo for building purposes, and enough remains to supply the demands of a city of half a million of people for a century, if they were permitted freely to use it.

THE MINERS AND MINES.—At the recent Colorado State Convention, the following resolution was adopted as part of the Union platform. It contains a just principle, and should be adopted by the Government:

Resolved, That the pioneer miner who explores the country, and finds the native deposits of precious metals, is entitled to the same, as the reward of his enterprise and daring, and that the General Government should give to the discoverer a title in fee to the same, at the minimum cost of survey.

TEA CULTURE IN GEORGIA.—A man who has been raising tea, as an experiment, since 1840, writes to the Savannah *Herald* that the most of his plants grow finely, that his tea is of good quality, and that the plants will do quite as well in Georgia as in their native country. The plants require no culture after the third year. If well taken care of, by that time they will be large enough to commence the manufacture of tea from them. The yield to the acre is from three to four hundred pounds, and the plants produce good crops for eighteen to twenty years. The growth of tea is not affected by dry or wet weather, or by storms, and insects will not molest the plants.

ORE SHIPMENTS FROM SAN FRANCISCO.—The British ship Surat, cleared from this port for Swansea, on Friday last, with 1,146 tons of copper ore, 55½ tons of silver ore, 14½ tons of gold ore, and 17½ tons mixed ores; total values $60,380, all but $13,350 of which was from California mines. This makes the eleventh vessel which has cleared from San Francisco for Swansea with ores during the last eight months

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NEW YORK is to have another magnificent hotel, for which the site has been purchased near Central Park, consisting of a whole plat of ground. The building, with the grounds will cost $2,000,000.

Mechanical.

MIXED METALS.

In continuing our articles on metals, and their alloys and molecular changes, we are more than ever induced to express our wonder that so little attention has heretofore been paid by workers in metals and by chemists to the immense advantages that may be gained by judicious and skillful mixtures of those metals. We believe that facts will warrant us in the statement that there is no metal employed in the mechanic arts which cannot be improved, for any use to which it can be applied, by a judicious admixture with some other metal; yet, with all the boasted chemical and mechanical knowledge of the nineteenth century, it is only within a few years that we have been able to advantageously compound more than some half dozen simple alloys, nearly all of which were known equally as well to the ancients as to ourselves.

How few of the practical metal-workers of the present day, even among those who lay claim to considerable scientific attainment, have any particular knowledge of the chemisty of iron, the most common of all known metals. It is only quite recently that our chemists, even those who make it a business to study and experiment for the cause of science and the benefit of mankind, have directed any especial attention to this department of research. While the books are full of the records of their investigations upon the subject of *organic* compounds, they appear to have as cautiously avoided any contact with these *inorganic* substances, upon the employment of which most human industries are based, as though they were fearful of burning their fingers, should they attempt to meddle with hot and molten metals.

Perhaps the fact that nearly all students of science are very poor in purse, may have heretofore had an important bearing on the direction which their experiments have usually taken. Investigatons in the science of metals and their compounds is a very heavy, laborious, and expensive work; involving the employment of costly furnaces and other appliances, quite different from researches into the easily manipulated substances of organic nature. However this may be, it is only quite recently that any very especial attention has been turned in this direction; but the results from this new field of investigation are already of the highest importance and interest. So fruitful, indeed, has this field of research become, that we can now scarcely take up a scientific journal without finding something new with regard to some metal or metallic compound.

As examples of what have been already accomplished, we would refer particularly to the late discovery of Bessamer, and its successful application in the manufacture of steel; to the still later discoveries of M. Peloube, of the French Mint, with regard to the great superiority of zinc over copper, as an alloy for silver; also, to the recent successfully-conducted experimental researches into the advantages of tungsten as an alloy for hardening iron, to which we more particularly alluded last week, and last, though not least, to the practical results of the researches of Dr. O. E. Prieger, of Bonne, in Rhenish Prussia, into the utility and practicability of alloying manganese with iron and copper.

THE NEW ALLOYS OF MANGANESE WITH IRON AND COPPER.

The practicability of forming an alloy of manganese with iron was first made the subject of a patent, some fifteen years ago, and very important results were obtained. A new interest, however, has quite recently been awakened in this matter by the more elaborate and successful experiments of Dr. Prieger, who has also experimented largely with copper alloys of manganese as well as with iron. It is quite recently, we believe, that the Doctor has set himself resolutely at work, on a large scale, in efforts to devise and prove the practicability of cheaply alloying *manganese* with iron for the same purpose. His researches have been most abundantly rewarded; and it is announced that he is now able to produce, on a large scale, and very cheap, a quantity of cast-iron, *harder than steel*, which will take a most exquisite polish, of a color between that of silver and steel, and which will fuse at quite as low a temperature as ordinary cast-iron. This new alloy—new metal in fact—is said to be *entirely free from all liability to oxydization*, except when immersed in water; and even then the oxydization is confined to a slight action upon the surface only. The immense advantage to the arts of such a metal must be apparent to every mechanic. This discovery is also applicable to steel, but of the extent of its value in that direction we are not particularly informed.

Should the statements of the Doctor be borne out in the experience of others, this new alloy, which he terms "ferro-manganese," will soon come largely into demand. He has experimented with it in various degrees of mixture, from a fraction of one per cent. up to eighty per cent. He makes some very remarkable statements with regard to minor advantages derivable from a low percentage of manganese in the alloy; but he considers the alloys most likely to be of the greatest benefit to the arts to be two; which contain their constituents in atomic proportions; one of which is made up of two atoms of manganese to one of iron, and the other of four atoms of manganese to one of iron. The percentage proportions of manganese in these two alloys is given, respectively, as 66.3 and 79.7. (We repeat the figures as we find them in the authority before us, although there is evidently a discrepancy somewhere.) Both these two last alloys are designed for cast iron, which, it is stated, is harder than the hardest steel, and at the same time as fusible as ordinary cast-iron.

STILL ANOTHER ALLOY.

The success of the Doctor in the production of his "ferro-manganese" induced him to try some experiments with copper. These have also proved successful, and he has named this second alloy "cupro-manganese." It resembles bronze, but is much harder, and more tenacious. This mixture, when further alloyed with zinc, is easily fused, without materially losing its tenacity; it also works very easily, and presents a color and lustre approaching that of silver. There is reason to believe that this alloy, also, in its varying degrees of percentage, will eventually become very useful, especially for artistic purposes. For the benefit of the reader who would like to learn more of the character and uses of manganese, in its various mineral and metallic forms, we have prepared an article, which will be found in another column, especially treating upon this interesting mineral, whose importance must be hereafter vastly increased, by the new properties which it has been found to possess, under the skillful manipulation of Dr. Prieger.

METALLIC CEILING.—While all other departments in the internal decorations of houses have kept pace with improvements in other branches of industry, it is a somewhat remarkable fact, and one that has long engaged the attention of architects, that the ceiling of our rooms, with their unseemly blisters and network of cracks, are still, generally speaking, just what they were many years ago. Mr. Little has invented a system for the construction of ceilings, which consists in the application of the joisting of very thin-stamped ductile metal in ornamental embossed panels, of such sizes and shapes as may be required. These stamped panels are fitted for every kind of decoration in color, and, if inserted as plain surfaces, may be used as the ground for every description of cartoon painting, combining with lightness and durability artistic and ornamental effect, at a comparatively small cost. Besides its applicability to the ceilings of rooms, and all public buildings, churches, etc., the system may be made use of with the same effect in staircases, halls, and porticoes, and even on the walls of the rooms.—*Ryland's Circular.*

THE rolling mills of New Albany, Ind., have a capacity for the manufacture of 130 tons of the best quality of round, flat, bar, and square iron per week.

FIFTY-NINE steamers, of over 1,000 tons burden each, have been built at New York within the last four years.

THE prices of labor, building materials, etc., now ruling in Cincinnati, and the West generally, are double those of 1860, but the *Gazette* states that the cost of living—food, rents, etc.,—has increased in a greater ratio than wages, and that workingmen have a hard time of it.

M. LENOIR, the inventor of the gas engine, has devised a kneading trough which is adapted to the gas engine, and which any journeyman baker can manage after half an hour's instruction. The mechanism performs exactly the work of the baker's arms, without the disagreeable accompaniments of the human machine.

PAPER MILL.—The Oregon *Reporter* says that a paper mill will soon be established at Oregon City. About $100 000 are annually sent out of Oregon for paper, which it is proposed to keep there by patronizing home manufactures.

IRON FURNACES IN MAINE.—A company of capitalists is engaged in erecting blast furnaces, near Bath, Maine, for reducing iron ore. It is estimated that the ore found there will yield about forty per cent.

THE Sultan has ordered machinery and engineers from England, to work the coal mines in Turkey, on his own account.

PROFITS OF THE EXPRESS BUSINESS.—The American Express Company of New York, in 1864, paid cash dividends to the amount of thirty-eight per cent. on a capital of $2,000,000, in addition to fifty per cent. in paid-up stock on an increase of its capital to $3,000,000; equal to *eighty-eight per cent.* for one year's profit on a capital that did not originally cost one half of its then fixed value! On its increased capital of $3,000,000, the same company paid, during the first eight months of the present year, twenty-six per cent. in cash, and twenty-five per cent. in additional paid-up stock, and a further cash dividend of twenty-five per cent. is expected for the balance (four months) of the year—over one hundred per cent. per annum on its actual paid-up capital!! The stock of this company, at last reports from New York, was selling at three times its par value. What wonder, then, that the railroads, out of whose legitimate business this profit is chiefly made, are taking steps to put an end to such a useless drain upon their business and the pockets of the people.

MANUAL FOR ASSAYERS.—One of the most valuable works for persons pursuing metallurgical studies, obtainable on the Pacific coast, is "Bodemann & Kerl's Assaying," for sale by A. Roman & Co., in this city. In fact this is the only really valuable work of this description accessible in California, and is just the thing needed here, where so many are now endeavoring to obtain a knowledge of assaying and the general principle of metallurgy, with the view of applying that information practically to the working of ores. This work treats on the assaying of gold, silver, copper, lead and mercury, and gives several methods of assaying by the wet way, not generally known even to old experts. In addition to the ordinary topics usually discussed in treatises of assaying, the work also contains many others of interest and importance to the student of metallurgy. The work is a translation from the German, by W. A. Goodyear, and is fully illustrated with plates.

SNAKE RIVER TO BE NAVIGATED.—The Salt Lake *Vedette*, of Nov. 1st, says that a steamer for this purpose is being constructed by Mr. Dorsey, at Old Fort Boise. The lumber of the craft is to be delivered on the ground before December 1st. The machinery is reported on the way from Umatilla. The steamer is to be 242 feet long. It is to run from Old's Ferry to Salmon Falls, a distance of 150 miles. The Idaho people are much rejoiced at the fact that they are soon to have steam navigation introduced upon that far inland water.

GOV. GOODWIN, of Arizona, now Territorial delegate to the Congress of the United States, left for Washington by the last Panama steamer.

SAFETY OF LIFE.

It is oftentimes astonishing to witness the small loss of life that results from a certain class of accidents, when one would naturally suppose the greatest danger would exist. How often do we hear of stages thrown off an embankment, and rolling down steep declivities where it would seem almost a miracle that any one could escape with life; and yet no other damage is done to the passengers than a few severe injuries. A wooden, or even a brick house, may fall and be pretty effectually demolished, with very little or no injury to the inmates. The distress is more in the anticipation than in the actual injuries received. A city may be nearly destroyed by an earthquake, and were it not for the fires that immediately break out in every direction, the loss of life would be comparatively small. The greatest loss of life is in churches, and other buildings where rooms of large areas are found, without supporting partitions. When an earthquake shock occurs in this city, it is the custom of the people to rush into the streets, where infinitely more danger exists than within the houses. It is doubly foolish to rush from a dwelling-house or store to avoid danger from an earthquake shock. In the first place, if there is actual danger, it will generally be upon you before you can get out; and in the second place, you are jumping from the frying-pan into the fire. If we were on Montgomery street, or in any place with tall brick buildings on either side of us, at the instant of the occurrence of an earthquake shock, we should be very likely to attempt to dodge inside of the most convenient doorway for safety. As an illustration of a portion of what we have said, our eyes have just fallen upon a paragraph from a foreign paper, where it is stated that a wooden theater recently fell in a small town in France, while nearly three hundred people were in the house; only two of whom were seriously injured, and those not fatally. If you are in a stage when it is upset, endeavor to keep as nearly in the middle of it as possible by holding to the seats. If you are in a house, when there is danger of its falling, place yourself near a partition, and as far as possible from an outside wall.

BURIED TREASURE.—It is said that a large amount of coin is beginning to make its appearance, most mysteriously, in many parts of the South. The solution of the mystery is that thousands of people, who were well supplied with coin at the outbreak of the rebellion, soon discovered that the Confederate Government would find it necessary to appropriate to its own use all the gold and silver it could find, and to save the remainder of their little fortunes, those who had twenty-dollar pieces and silver spoons, were compelled to secrete, or *cache* them. They were thus placed beyond the reach of guerrillas and taxation, and now that a more settled condition of affairs offers security to life and property, the buried treasures of the planters are coming to light. The government has taken the precaution to protect the people against acquisitive civil and military agents, and those who had the wisdom to lay aside their valuables in the midst of revolution for the return of better days, are bringing their treasures forth for the benefit of themselves and the public.

LOWER CALIFORNIA MINES.—A letter from La Paz, Lower California says that the mines in the San Antonio district are being developed very slowly; and this, notwithstanding several of these have been proven to contain valuable ore, in abundance. The complaint is that stockholders are unwilling to make the necessary outlays. The Triunfo company has a 2-stamp mill at work; but as yet pays no dividends. The company is in debt there about $36,000, on which they are paying from three to five per cent. per month interest. Their mine has every appearance of being a good one. The company has recently hired the Kenosho 4-stamp mill, and are offering to do custom work for $36 per ton, and guarantee within 10 per cent. of the assay. The use of sodium-amalgam has been introduced there; but with what success we are not informed.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides and the evidence of any error which may appear will be received in friendship and treated with respect.

American and Foreign Patents.—Letters Patent for Inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

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San Francisco:

Saturday Morning, Nov. 25, 1865.

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A good Canvassing Agent can secure permanent and remunerative employment by calling at the office of the MINING AND SCIENTIFIC PRESS, 505 Clay street.

DEWEY & CO.,
Publishers and Job Printers,
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THE PITTSBURG RAILROAD—MOUNT DIABLO.

The construction of this railroad, which is being built to carry coal from the Mount Diablo coal mines to the steamboat landing on the San Joaquin, is being rapidly pushed ahead. Most of the grading is done, a portion of the rails are down and several cars are already on the track. Messrs. Booth & Co., of the Union Foundry, of this city, have the locomotive well under way which is to do the traction business of this road. It is to be a six-driver tank engine, to run without a tender—the whole weight of the engine and tank being placed upon the driving wheels. This locomotive is to be built to run up a maximum grade of *two hundred and seventy four feet to the mile!*—the highest grade, we believe, with one exception, yet overcome without a stationery engine. The road is five and one-quarter miles in length; the total elevation gained in the distance being *eight hundred and forty-seven feet*, as follows: First section, half a mile, level; second, one mile, seventy-five feet to the mile; third, one and one-quarter miles, eighty-five feet; fourth, three-quarters of a mile, 105 feet; fifth, one and three-quarters, 274 feet to the mile; 300 feet of this section passes through a tunnel which is already completed. This important enterprise has been commenced and carried forward, thus near to its completion, with very little stir; but with a degree of energy which augurs well for the future prosperity of the road and its management. The road will go into operation in about two months, just in time to keep up the winter supply of coal from that important coal mining region.

THE RAIN.—The late rain commenced most opportune, and continued just long enough to accomplish the greatest good with the least evil. Unlike the usual advent of the rainy season, which generally comes on in sparing installments, rendering it difficult to determine whether the miner should make immediate arrangements for winter's washing, or expect a month or two of half-way work; the present has come upon us with no uncertain import. Both the miner and the farmer can now go to work with a will, and with the full knowledge of a plenteous supply of the aqueous element. The ditches and rivers will be full from this time on for the miners; and the farmers can start their plows and get in an early crop, with the same prospect of an abundant harvest.

THE NEW METAL, MANGANESE, AND ITS ORES.

We have given in another column of the present issue an incidental notice of the progress recently made in reducing the mineral, manganese, to its metallic form; and the important commercial advantages which are likely to grow out of its use as an alloy for iron and copper. The experiments of Dr. Prieger, there referred to, and the fact that the ores of the metal manganese occur in almost unlimited quantities, even in the very Bay of San Francisco, to say nothing of its discovery in numerous other localities throughout the State, is considered of sufficient interest to warrant for it a more extended notice.

When the dark-colored mineral, known to commerce as manganese, was first discovered, and for a long time afterwards, it was called *black magnesia*, in contradistinction from magnesia proper, which occurs as a *white* mineral. The fact that this earthy base (black magnesia, now manganese) contained a *metal*, was made known, and that metal named magnesium, before Sir Humphrey Davy discovered that magnesia (the white mineral) could also be reduced to a metal. When it thus became known that both these two earthy minerals contained, each, a metal altogether different in their characteristics, it became necessary to make a change in their nomenclature, and the white mineral, with its metal, was thenceforth known respectively as magnesia and magnesium; while the name of the dark-colored mineral was changed to manganese. The term *manganesium*, the proper derivative name for the metal, is seldom used; but it is usually spoken of as "the metal manganese."

But first with regard to the mineral, which usually occurs as a black oxide. This mineral is in considerable demand for employment in the arts. It is almost universally used in the production of chlorine gas from common salt, for bleaching purposes. It has been considerably employed in this State for making chlorine in connection with the "chlorine process" for extracting gold from auriferous pyrites in Nevada, Grass Valley, in this city and in Mariposa and Amador counties. It is employed by glass manufacturers to destroy the green, olive and yellow tints which are almost invariably present in the compounds used for making glass. It has been and still is extensively used in this city in the manufacture of mineral paints. It has also been used to some extent in other parts of the world for mixing with paints and also in the manufacture of printer's ink. It is employed in a peculiarly prepared state, by calico printers, to produce what is called a manganese brown, or bronze. It is also sometimes, though rarely, used as a medicine for cutaneous diseases. Persons working with manganese, or in a manganese mine, are never subject to the *itch*.

It was estimated, some ten or twelve years ago, that the annual consumption of manganese, for all purposes throughout the world, was about 25,000 tons. The demand has greatly increased of late, and this rate of increase will doubtless hereafter be very much accelerated.

A very fair quality of this mineral is found upon Red Rock, a well known island about ten miles up the Bay, from this city. The island, we believe, is almost or entirely made up of this mineral. Large quantities are brought to this city for various purposes. Some thirty or forty tons were shipped to New York, last winter, by the ship Cremorne, with the view, we have understood, of proving its value for being refined for commercial purposes. We have not learned the result of the speculation, although there is little doubt of its success.

Manganese is never found native. It always occurs as an ore—in oxyds, carbonates, sulphurets, etc. The metal manganese is dark grey, in color, very brittle and exceedingly hard, even scratching steel. Isolated or alloyed, it possesses many very remarkable characteristics. It is almost impossible to obtain the metal direct from its ores, in an isolated condition. It is obtained, for commercial purposes only as an alloy, formerly with iron alone; but latterly with copper as well. It can be obtained as a free metal, only in small buttons and with the aid of a great heat, kept up by a hot blast. It is even then very impure, resembling pig iron, and much contaminated with carbon and silicium. Its carbon may be separated by fusion with borax, when the metal is extremely oxydizable; so much so that it must, like sodium, be kept under naptha. Notwithstanding the metal is so easily oxydizable of itself, yet when alloyed only to the extent of fifteen or twenty per cent. with iron it is next to gold in resisting oxydization; and will retain a bright polish for an indefinite length of time. Another peculiarity of this metal is the fact that while in the condition of a free metal, it requires the strongest attainable furnace heat to melt it; when it is alloyed with iron, even to an extent which constitutes eighty per cent. and more of the alloy, it is as easily melted as ordinary cast iron. When combined, by fusion, with five or six per cent. of silicium, it will not oxydize even at a red heat, and withstands the action of nitro-hydrochloric acid.

The remarkable changes in its properties which this metal undergoes, with so slight foreign admixtures, is deemed by some chemists as unaccountable, except upon the supposition that it possesses an allotropic character; a condition in chemistry applied to any substance which possesses the power of existing in two or more conditions, entirely distinct in their physical relations. To illustrate—carbon is an allotropic, elementary substance, inasmuch as it occurs extremely hard in the diamond, in octahedron crystals; while it is also found quite soft, as graphite, in hexagonal crystals, and very soft, as lamp-black, in an amorphous state. Oxygen is also allotropic, being identical in element with ozone.

The method adopted by Dr. Prieger, for obtaining the alloy of this metal is by taking the oxyd ore, finely pulverizing it with charcoal and mixing this mixture with pulverized cast iron or iron turnings, and placing this triple mixture in a graphite crucible, holding thirty or forty pounds, cover with carbon and salt, and expose for several hours to a white heat; on cooling there will be found a homogenous alloy of manganese and iron. The molten iron seizes the particles of manganesium, as fast as they are set free, preventing their combining with the carbon, or becoming instantly oxydized again, as they would do if the iron were not present. Dr. Prieger has already produced some hundreds of tons of this alloy, by his improved process.

NOTE.—In the paragraph treating upon this alloy, on page 327 of this issue, the last line but one in the column, for "the same purpose," read "commercial purposes."

A. ROMAN & CO.—We would invite the attention of our readers to the card of this enterprising House which appears in our present issue. This is the only firm in the State devoted exclusively to the book trade, and the amount of business which they transact proves this to be a country in which such a business may be made highly profitable. Among the publications in which the mining community will be particularly interested may be mentioned, Kustel's Metallurgy, of which Messrs. R. & Co., are now sole publishers, besides a long list of works on natural science, mining, agriculture, and petroleum, on which last subject a large number of books have lately been published in the East, and all of which can be obtained of Messrs. Roman & Co. They have just received one hundred and fifty cases of standard works selected by Mr. Roman in the eastern markets, including Historical, Religious, Scientific and Miscellaneous works of every character. Their long experience and high character for enterprise and integrity, warrant us in assuring our friends in the interior that by sending their orders for books to this firm they will be filled as well and promptly, and at the same price as if they were personally present. Do not forget the address, A. Roman & Co., 417 Montgomery street, San Francisco, where you will find one of the largest stocks of standard and miscellaneous books on the coast, selected with special reference to the California trade.

A NEW AND CONVENIENT HITCHING POST. It has often been noticed of California inventors, that they always appear to bring out precisely the invention that is wanted and that, too, just at the proper time. In other words they do not invent for the mere novelty of the thing, or go into the business for the sole purpose of making money. Their inventions are usually brought out to meet a pressing, present want. Hence they are generally novel and eminently practical. We might mention a number of important instances where these remarks are peculiarly applicable. Our present purpose, however, is to call attention to the invention named in the heading of this article. A great inquiry has recently been made in this city for some kind of a "hitching post" which shall be no obstruction to the sidewalk; which shall be sufficiently elevated above the street to render it impossible for horses to entangle their feet in the halter, and which shall also possess the requisite strength and durability. Chief Burke, and the entire municipal government of the city, have been looking and inquiring for such a thing for the past three months, with the view of legislating it into general introduction in our principal streets, to prevent the frequent runaways, which almost daily place in peril the lives and limbs of pedestrians. As if designedly to illustrate our introductory remarks, just in the nick of time a gentleman of this city has invented precisely the thing needed—a hitching post which, when wanted as such, stands firm and erect for the purpose; but as soon as it is not needed, by a slight kick with the foot, *presto*, it suddenly drops out of sight, and all that is seen is a ring in the sidewalk, and ready to be pulled up again, by the next comer who may need it. The post consists of a wrought iron shaft, with a ring on the top, the shaft being inclosed in a box sunk underneath the pavement, where it remains out of sight when not in use. When needed for hitching horses it can be pulled up out of the box with the ring, and is kept upright by a spring at the lower end of the shaft, which catches on the edge of the box. Thus the objection to the ordinary hitching posts that they are an obstruction to the street is obviated, and all the advantages of a stationary post are secured. A sample will soon be exhibited on Montgomery street. In the meantime a patent has been applied for through the MINING AND SCIENTIFIC PRESS PATENT AGENCY.

THE BLUE LEDGE, EL DORADO.—This company has recently removed their mill from their former location, on the original Blue Ledge, to another mine, which the company has purchased about four miles distant, and about two miles from Spanish Flat. In changing the location of the mill important improvements have been made in its reconstruction, by which it is now believed to be one of the most perfect in the State, calculated for thirty stamps, twenty of which have already been put up, leaving the other ten to be added as they may be wanted. It is expected that the mill will commence regular crushing on Monday next. The mill is located directly upon the main vein (the company having two, one above the other), so that when it is properly opened, the rock can be delivered from the cars direct upon the platform of the mill. About 300 tons of rock have been taken out of this vein, some 100 tons of which have been worked with a yield of from $12 to $15 to the ton. The vein proper is about forty feet wide; but it is the intention of the company, for the present, to work only about seven feet from the west or foot-wall. It will be seen from the above that the cost of taking out the rock will be but a trifle, and the pay indicated, if continued into regular working, must be very profitable. The company intend to prosecute the work of development with the utmost energy.

COMPLIMENTARY.—We acknowledge the reception of a complimentary ticket to the seventh anniversary ball of the "Light Guard," which is to be held at Platt's Music Hall, on Thanksgiving evening, Wednesday, Dec. 6th.

CALIFORNIA PATENTS.—An article has been going the rounds of the California press to the effect that about 250 patents have been granted for California inventions during the last two and a half years. The fact is that not more than 250 *applications* have been made for the entire Pacific coast during the time mentioned. Of these, probably 150 have this far been allowed. Of the entire number of applications, a majority have been made through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. Of the applications made through this office not more than one in twelve have been rejected; while taking all the States of the Union, the proportion of rejections is fully one in four, as may be seen from the annual Patent Office Reports. This fact proves one of two things, either that this agency is remarkably successful as solicitors, or that the inventors on the Pacific Coast are vastly superior to their brethren, generally, throughout the Union, in the originality of their mechanical ideas. We are willing to divide the honors; and attribute *our* superior success mainly to the fact that our business is usually done personally with our customers; which mode of doing patent business gives California inventors an immense advantage over those at the East who do their business with the New York agencies, through correspondence.

OIL SPRINGS IN ENGLAND.—The telegraph of Wednesday last reports the discovery of oil springs in England. All the petroleum hitherto obtained in that country, with the exception of a small spring which flowed for a short period in one of their coal mines, has been derived from distillation from bituminous coal. A patent was recently granted to Mr. John Watson, of London, for the manufacture of hydrocarbon oils from the upper and middle lias shales—a material not hitherto employed for that purpose, and ore which probably does not yield one-tenth as large a percentage of oil as that derivable from the bituminous sands of California, millions of tons of which are lying upon and near the surface of the ground.

THE EXCELSIOR GRINDER AND AMALGAMATOR.—Capt. Dall, one of the oldest and most experienced mill-men at Washoe, has had four of the above named pans in operation for the past two months, and recommends their use in the most positive terms, giving the Excelsior a decided preference. They carry an average charge of 2,700 pounds, reduce rapidly, yield satisfactorily, and are convenient in operation. This pan is one of the latest style patented by Messrs. Wheeler & Randall, of this city, and advertised in another section of this paper.

THE "A. A. SARGENT."—This new locomotive, the finishing touches upon which are being put on to-day at the Union Foundry, will be ready for the acceptance of the company on Monday. This locomotive, to which the name of our distinguished ex-Congressman has been given, has been built for the Central Pacific Railroad Company, and is designed to run on the same track with the "John Conness." This is the third heavy engine built at the Union Foundry.

ELECTROTYPE CUTS, ENGRAVINGS, ETC.—Our Job Printing Office is abundantly supplied with elegant engravings, ornaments, and other embelishments to suit the various branches of industry in this State.

Book Printing should be considered and treated as one of the higher branches of the "Art of Arts," and its execution entrusted only to experienced and intelligent workmen. Strict attention will be given to all orders for BOOK AND PAMPHLET PRINTING entrusted to the Mining and Scientific Press Job Office.

To Delinquent Mining Companies.

We hereby give especial notice to the Secretaries, Trustees and Shareholders, of such Mining Companies as are owing us bills for advertising of OVER SIX MONTHS STANDING, that we shall commence action, according to law, to collect the amounts due, if the same are not immediately settled.

DEWEY & CO.,
Office Mining and Scientific Press, Nov. 25, 1865.

Notice.—The interest of E. D. Waters, Jr., in the job printing firm of Dewey, Waters & Co., has been purchased by A. T. Dewey. The business of the late firm will be continued under the title of "MINING AND SCIENTIFIC PRESS JOB PRINTING OFFICE."
San Francisco, November 18, 1865.

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THE QUARTZ OPERATOR'S HAND BOOK is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

The work also contains an original and highly interesting discussion of the tractory and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the completion of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Belshaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on pa 415 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865

Sold by booksellers generally. Price by mail, postage paid, $1.25. Address "Wheeler & Randall, at the Mining and Scientific Press Office, San Francisco." 2v11

MINING AND SCIENTIFIC PRESS

PATENT AGENCY.

For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 3th, 1861, and March 3d, 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent, And if the final fee for such patent be not paid within the said six months, the patent shall be withheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice of a rival, if one, or any, application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of such notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees we have added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is now $20 in gold. If the case is granted no further agency expenses ensues. If the application is rejected we examine thoroughly into the reasons prescribed to the Commissioner for refusing the patent. In making this examination, we have at our command the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by conducting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted, the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & CO., Mining and Scientific Press, No. 505 Clay street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money can be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 yrs and 6 mos...	$10
On every application for a design, for seven years.....	15
On every application for a design, for fourteen years....	30
On every application for a patent, for seventeen years...	15
On every caveat.....	10
On issuing each original patent.....	20
On filing a disclaimer.....	10
On every application for a re-issue.....	30
On every additional patent granted on a re-issue.....	30
On every application for an extension.....	50
On the grant of every extension.....	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C....	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,
Mining and Scientific Press Office, No. 505 Clay street, corner of Sansome, San Francisco.

Oakland Water-Cure.

APRIL 1ST, 1864, WE OPENED A HYGIENIC BOARDING House and Ladies' Health Institute in Oakland. The great advantage we have experienced since that time, in the treatment and cure of all those diseases peculiar to females, as well as those common to all, over that of San Francisco, induced us to give up the treatment of gentlemen in the city. We have accordingly removed our entire Bathing, Electro-magnetic, and Gymnasic Apparatus, which we most especially in the treatment of males, to our Health Institute across the Bay, and have found, after a trial of seven months, that gentlemen as well as lady patients recover, at our Fountain Farm Cure, one-third faster than in the city of San Francisco. The climate here is the most even and bracing to be found in the State. The grounds command a view unsurpassed in the world. The institution is furnished with an abundance of pure, soft water, from numerous springs; and we now offer to Ministers, Teachers, Lawyers, Miners, Merchants, Mechanics, Farmers, and all other worthy persons, who desire to try the advantages of the only *rational* system of medicine, the hospitalities of our Hygienic Home and Cure. Young men who have become debilitated or lost their health by excesses, toil, exposure, or enervating habits, contracted through ignorance of Physical Laws, may with us find more of the encouragements they need, and means that will restore them to health, than elsewhere in California.

We claim for Water-Cure and Hygienic Medication superior advantages over all systems of medicine, and the cure of all disorders, whether acute or chronic; that it is followed by none of those debilitating diseases, such as Phthisis, Chronic Diarrhœa, Torpid Liver, Constipation, Intense Nervousness, Neuralgia, etc., nor those terrible Secondary Diseases, known as Varicose Swelling of the Veins, Necrosis, or Decaying of the Bones, Ulceration of the Limbs, Mercurial Rheumatism, Urethal Strictures, etc., which we well know result from the free use of mercury and other metallic drugs, together with stimulants and vegetable poisons given to overcome acute diseases.

The Oakland Water-Cure and Eye Infirmary

is by far the most complete in its facilities for the cure of all diseases commonly treated in all Eastern Water Cures of any note—establishment on this coast, and the only one in California conducted according to the Theory and Practice of the New York Hydropathic College. We use all forms of Warm and Cold Wet Sheet Packs, the Electro-Chemical Bath, Steam Baths, Improved Sitz Baths, Douche Baths, a Patent Spray Bath, and a Magic Bath. The last named was introduced by Dr. Smith with special reference to the cure of those diseases peculiar to miners, namely: Rheumatism, Inflammatory or Chronic, Stiff Joints, Paralysis, Mercurial, Lead, and Oak Poisonings. It is a sure cure for Ague and Fever. It aids more than any other Bath we have yet used in eradicating all kinds of drugs and infections poisons, and in the cure of all disorders induced by exposure to dampness and water, foul air, absence of light and sedentary, retorting habits, the malaria of swamps and low marshy grounds. Where there was a fair constitution left, even when drugs had been applied for months and years without a cure, we have, in the past seven years, treated successfully the following diseases: Chronic, Inflammatory and Mercurial Rheumatism; Paralysis; Lung, Bronchial and Catarrhal Affections; Diseases of the Heart, Kidneys, Liver; Dyspepsia, Constipation, Erysipelas, Scrofula, Piles, Inflammation of the Bowels, Chronic and Acute Diarrhœa, and all diseases and weaknesses peculiar to male and females. No physician in California is so favorably situated to furnish so many home comforts and hygienic conditions that are indispensable to the speedy recovery of nervous and chronic invalids. We have the only truly healthful boarding place in the State for men, women and children, with plenty of saddle and carriage horses for the use of patients and boarders.

To that class of Diseases and Weaknesses peculiar to females, and the medication that Hydropathic or Hygienic physicians employ in their cure, do we invite the special attention of patients and their friends. The ease and rapidity with which females suffering from general or special debility, recover in the bracing climate of the Bay, under Hygienic Medication, together with the universal success that has attended the treatment of females at Dr. Smith's Institutions, (both in Sacramento and San Francisco) has induced us to make this class of human afflictions a specialty of our Institution. We have treated (mostly in the cure), over 300 females, several of whom had been "confined" for months and years, and all have been decidedly benefited, and with but few exceptions, returned to their homes in from two to six weeks, so far recovered as no longer to need a physician. We have never yet learned of a single instance of a relapse into their former conditions.

There is not one female invalid in twenty that has been suffering from nervous debility or diseases peculiar to her sex, that cannot be permanently cured by spending from four to six weeks at our Water Cure, and using the exercises of the Gymnasium. This statement we make in confidence, from an experience of the last seven years. From the many who have been treated at our Cure, we have yet to learn of a single regret from husband or wife of the time or means they have expended in Hygienic Medication.

NEW YORK, Aug. 1, 1858.

To all whom it may concern:

This certifies, that Dr. Barlow J. Smith is a graduate of the New York Hygieo-Therapeutic College, which College has a regular Charter from the Legislature of the State of New York, and is authorized to grant Diplomas, conferring on its students all and the same privileges and immunities in relation to the practice of the Healing Art, that are conferred by the Diplomas of any Allopathic or other Medical College in the country.

Dr. Smith has also devoted much attention to Phrenology, especially in its connection with Physiology and Pathology, a portion of the time under the instruction of Fowler & Wells, of this city, and has labored successfully as a teacher and lecturer on these subjects.

R. T. TRALL,
Principal New York Hygieo-Therapeutic College.

To all whom it may concern:

I have known Dr Barlow J. Smith, both in our office as a Student, and a practical Phrenologist in the country, and from what I know of him, can cordially recommend him as an honest, faithful delineator of character, and as such I can cheerfully recommend him to the public.

For the good of Science,
L. N. FOWLER, 308 Broadway, N. Y.

Dr. Smith spends a part of each day in San Francisco, attending to family practice and to Phrenological and Physiological examinations at his office, Room 13 Armory Hall, up stairs, corner Montgomery and Sacramento streets. Office hours from 11 A. M. to 2 P. M. Circulars sent on application. Address,

BARLOW J. SMITH,
20v11tf San Francisco, Box 473.

Lost or Stolen.

There was lost, or stolen, from our collection of minerals, etc., at the Mechanics' Fair, a sample of the late Telegraph Cable. The lost piece is three inches in length, by one and one-sixteenth in diameter; brass ferrel on each end with raised letters, viz: "Glass, Elliott & Co., Contractors, London." Any person who will return the article to this office, or give information of its whereabouts, will be suitably rewarded.

DEWEY & CO.,
Publishers Mining and Scientific Press.

Calendars for 1866.—The MINING AND SCIENTIFIC PRESS JOB PRINTING OFFICE is prepared to execute every manner of Counting-house Calendars and advertisements for various business men, on short notice and moderate terms.

EXTRAORDINARY METEOR.—A fine meteor was seen about one o'clock on the morning of November 14th by persons in Stockton. It is described by the *Herald* as "a body of light varying from half a foot to a foot wide, and nine feet long, in the south, moving from east to west. It lit up the heavens so that a person who happened to be awake in the room at the time, thought the adjoining house was on fire. After its disappearance, its pathway could be traced by a clear line of light for nearly five minutes."

GROWING THINNER.—An exchange having said that portions of the Yosemite's boiler were no thicker than a piece of felt, another paper copies the item and inserts "cassimere" instead of "felt." The next one publishing it will probably substitute "gossamer" for "casmere."—*Ex.*

HEAVY BUSINESS AND IMPORTANT REVENUE. The sale of gold and stocks made by New York city brokers during the year ending the 30th of June last exceeded $6,000,000,000, yielding a governmental revenue of $3,500.-000.

A NEW TOY has been lately invented in Paris, which bids fair to supplant the roseate balloons so eagerly acquired by the children of the rising generation. It consists of a serpent composed of quicksilver, sulphur, etc., which, lighted by means of a common lucifer match and projected into the air, performs a series of marvellous evolutions.

ELEPHANT OIL is becoming an article of trade. A vessel is now on its way to Desolation Islands to get a cargo of the commodity.

Metallurgy.

EUROPEAN

METALLURGICAL WORKS,

—AND—

Practical Mining School,

Bryant Street, Between Third and Fourth,

SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. KIMBALL, J. R. MURPHY.
10v10

G. KUSTEL,

Metallurgist and Mining Engineer,

Stevenson House, corner Montgomery and California sts.

Ores Analyzed,

Advice given, and Plans Furnished for working of different Ores. Mines examined and reported upon.
20v11-3m

BOALT & STETEFELDT,

Metallurgists and Mining Engineers

AUSTIN, NEVADA.

Western Branch of ADELBERG & RAYMOND, No. 90 Broadway, New York. 11v11

FIRST PREMIUM

FOR REFINING COAL OIL,

At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,
17v10 643 Third Street, bet. Brannan and Townsend.

NEW DISCOVERY

FOR DESULPHURIZING AND DECOMPOSING

METALLIFEROUS ORES,

—SUCH AS—

Auriferous Sulphurets, Arsenites or Antimonial Telluric, Gold and Silver Ores.

By this new process, in a short space of time these ores are decomposed or disintegrated so that they may be easily ground in a common coffee or other hand-mill. A patent has been applied for. The right of using is now for sale by EDWARD ARNOLD, Monitor, Alpine county, Cal., or by

DANIEL ROSS,

Traveling Agent for the sale of the above mentioned discovery throughout the United States. All rights sold by him will be recognized by me.

EDWARD ARNOLD,
Inventor and Patentee.

Monitor, Alpine county, Cal.

W. F. BRYANT, Agent, Odd Fellows' Hall, 325 Montgomery street, San Francisco. 2v11

Professional Cards.

Our Patent Agency.

The PATENT AGENCY of the MINING AND SCIENTIFIC PRESS has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of LETTERS PATENT from the United States and foreign Governments cannot be over-rated, and the Proprietors of the PRESS, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

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Member of the San Francisco Stock and Exchange Board,

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Mining Shares and Legal Tender Notes bought and sold strictly on commission. Liberal cash advances made on stocks consigned for sale. 1v11-3m

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DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.

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FREDERICK MANSELL.

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Drawings of MODELS made for parties applying for patents at Washington or London. mar23-tf.

JAMES M. TAYLOR,

Attorney and Counsellor at Law,

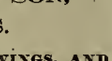
COURT COMMISSIONER, appointed by the Fourth District Court, COMMISSIONER OF DEEDS for Nevada and Massachusetts,

Court Block, San Francisco.

Entrances opposite City Hall, Merchant street, and 636 Clay street.
14v11tf

DR. H. AUSTIN,

DENTIST,



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Between Montgomery and Kearny Streets

[OVER SAN FRANCISCO BATHS]

SAN FRANCISCO. 20v10-qy

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Real Estate, Stock, and General

Auction & Commission House,

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JAMES N. OLNEY—Auctioneer.

SECRETARIES of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

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Stock Broker,

Member of the

San Francisco Stock and Exchange Board,

Buys and Sells Stocks, Bonds, Etc.

Office, No. 540 Washington Street, San Francisco.
2v10

G. F. DEETKEN,

Mining Engineer and Metallurgist,

Address - - - - - San Francisco. 25v9

W. O. ANDREWS,

NOTARY PUBLIC,

—AND—

Commissioner of Deeds for the State of Nevada and the Territory of Arizona,

AND FOR THE

STATES OF MASSACHUSETTS AND MAINE.

Office, Montgomery Block, 626 Montgomery Street,
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10v8-tf

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Will examine, survey and report upon mines, and cons and advise concerning investments in mining property, or the machinery management and expenditures of mines.
22n*

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SANTA CLARA, CAL.

Conducted by the Fathers of the Society of Jesus.

The FIFTEENTH ANNUAL SESSION of this College will commence on

Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $350

For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco.
3v11 REV. A. MASNATA, S. J., President.

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Are now prepared to execute orders for the manufacture of

All Kinds of Bottles to Order.

Office, No. 621 Clay street, San Francisco. 3v11-3m

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PRINTERS,

Book-Binders, Paper-Rulers,

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JOHN DANIEL,

(SUCCESSOR TO O. GORI)

MARBLE WORKS,

No. 408 Pine st. bet. Montgomery and Kearny, San Francisco.

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☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

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General Furnishing Undertaker,

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Barstow's Metallic Burial Caskets and Cases.
1tf

THEODORE KALLENBERG,

Maker of Models for Inventors.

MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
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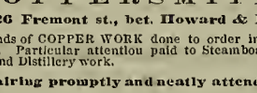
ARTIFICIAL LEG,

Manufactured in Philadelphia, Penn.

JARVIS JEWETT, AGENT.

629 Washington Street, San Francisco, Cal. 10v8-1m



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All kinds of COPPER WORK done to order in the best manner. Particular attention paid to Steamboat, Sugar House and Distillery work.

Repairing promptly and neatly attended to.
13v11

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And Leather Belting.

M. M. COOK & SON,

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Are now manufacturing as above, Fire, Hydraulic and Suction Hose, and Leather Belting, of any dimension and in any quantity which may be desired. Fire Hose and Belting constantly on hand or manufactured to order. Also Saddles and Horse Collars.

The subscribers would respectfully ask purchasers to call and examine their stock—also testimonials of the efficiency of their work from such as have used their hose both for fire and mining purposes. A diploma was awarded to us last year, by the Mechanics' Institute, of this city, and a silver medal this year. 12v11-1y

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WATCH REPAIRING AT NEW YORK PRICES.

C. E. COLLINS,

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EXCLUSIVE AGENT

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AMERICAN

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A large assortment of these

Superior Watches,

In Gold and Silver Cases,

Constantly on hand, and sold at Factory prices. Also,

ENGLISH AND SWISS WATCHES,

Imported directly from the Manufacturers.

The American Company are now making

VERY FINE WATCHES FOR LADIES.

☞ A large assortment of Gold Chains and Jewelry. 25v10-6m

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Drawing Classes in the Evening will take place as usual. DRAWINGS FOR PATENTS accurately and neatly done.
20v11-1m

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ESTABLISHED IN 1849.

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Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter. Also, Scott and Eckart's Adjustable Cut-off Regulator—best in use; W. R. Eckart's Balance Valve for Stationary Engines; Woodward's Patent Steam Pump and Fire Engine.

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Locomotive, Flue, Tubular, Upright, Cylinder and Cornish, and every variety of Boiler Work. All sizes of tubes and pipes for pumps.

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Wheeler & Randall's Improved Tractory Curve Pan, Zenas Wheeler's Improved flat bottom pan, Beldin's pan, Veatch's tubs, Prater's concentrators, Waklee's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills. Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

BLAKE'S PATENT QUARTZ CRUSHERS, of all sizes.

Oil Boring Tools and Machinery,

Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.

We have the facilities for working gold and silver quartz and other ores, to test their value, by the hundred weight or ton.

Russia Iron Screens, of all degrees of fineness and of all qualities of iron.

All work done in the best manner at the lowest cash prices. 21v10 **H. J. BOOTH & CO.**

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—AND—

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EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as

Steam Engines and Boilers, Flour, Saw and Quartz Mills,

Machinery, Mining Pumps, Amalgamators,

Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

☞ Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.

All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.

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Vulcan Iron Works Company

[ESTABLISHED 1850.]

First, Natoma and Fremont Streets.

IRON FOUNDERS,

Steam Engine and Locomotive

BUILDERS,

Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as

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Railroad Machinery, Locomotives, Car Trucks, Car Wheels, Housings and Irons; and Flouring Mills, Quartz Mills, Sugar Mills, Saw Mills,

Manufacturing Machinery of Every Kind.

Sole Manufacturers of

HEPBURN & PETERSON'S REDUCINO PAN AND AMALGAMATOR

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Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

JOHN P. GALLAGHER. JOSEPH WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

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ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to. Prices moderate.—☜

No. 125 First street, opposite Minna, next door to Pacific Foundry. 12tf

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Horse Wisdom.—Anything a horse can touch with his nose without being harmed, he does not fear. Therefore, the hand, the halter, girt, saddle, harness, umbrella, or whatever is brought in proximity to him, should be introduced and touched by that delicate organ. A knowledge of such important facts as we learned by attending a course of lectures, is the main secret of Rarey's success in horse taming.

The Royal Observatory at Paris is about to set up a colossal telescope at the cost of half a million of francs. The Ross instrument is to be outrivalled.

CALL STABLE.

N. GISHWILLER

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(two doors below the Lake House), where good Saddle and Buggy Horses can be had at all times. Our charges will be reasonable, and we hope, by prompt attention, to merit a share of the public patronage. 10v11-3m

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S. ALSTROM AND G. S. JOHNSON, Prop'rs.

This elegant and commodious Hotel is situated on the principal promenade street of San Francisco. The Lick House is finished and furnished with a degree of beauty and excellence unsurpassed, combining all the modern applications and arrangements of a FIRST CLASS HOTEL, thus offering superior inducements to the traveling public. The proprietors assure their patrons that the Lick House shall not be excelled in any of its appointments, or in polite attendance or attention to all the comforts of its guests. 15v11

HENDY'S IMPROVED BLOW-PIPE.

This Convenient Helpmeet

—TO THE—

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Can now be procured, at the Patentee's price, by sending your orders, by mail or otherwise, to the

Office of the Mining and Scientific Press.

This article was more fully mentioned in the PRESS of April 15th, 1865. Since that time, however, Mr. Hendy has made a further improvement by attaching a rubber hose between the mouth piece and the pipe, enabling the blower to change his position without disturbing the direction or constant accuracy of the current on the object upon which it is turned. The main portion of the blow-pipe is made with a joint, at which a valve is placed, which is opened when the operator blows and closed immediately when he ceases. By this arrangement the little bag or bladder is readily filled at a single breath, and with very little exertion. When so filled, a continuous current of air is forced from the nozzle of the pipe by the mere contractive force of the gutta percha. This force is uniform until the air is very nearly exhausted. The current may be easily varied or entirely cut off by gently pressing the fingers upon the neck of the bladder above the nipple to which it is attached.

Price, Complete.....$5.00.

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Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

SAN FRANCISCO.

STEAM ENGINE, FLOUR AND SAW MILL And Quartz Machinery, Printing Presses,

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WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

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And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Dunbar's Patent Self-Adjusting Steam Piston PACKING, for new and old Cylinders, manufactured to order.

Front Street, between N and O streets,

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LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality. Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

MITCHELL'S COMBINED FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

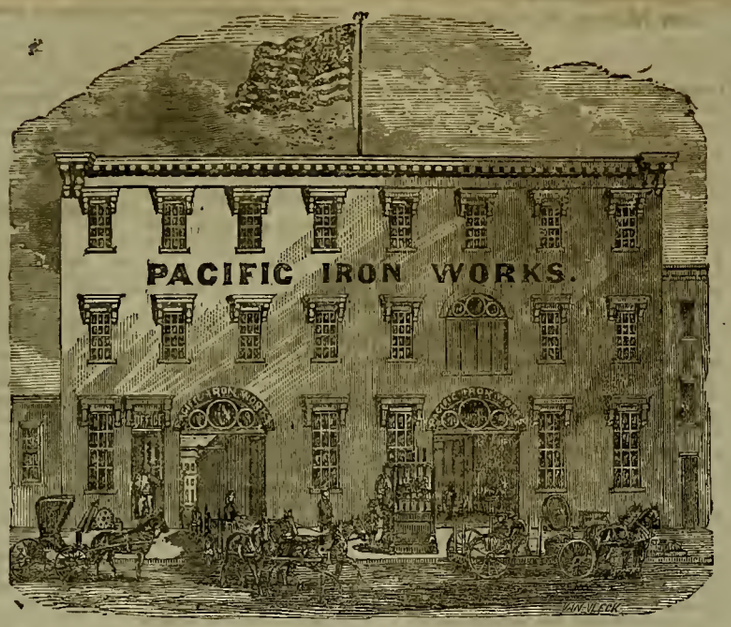
The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with GALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.

San Francisco, Aug. 22d, 1865. 10v11-3m



THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequalled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting Machinery of the most approved construction. Flour, Saw, and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Buttery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully Solicited.

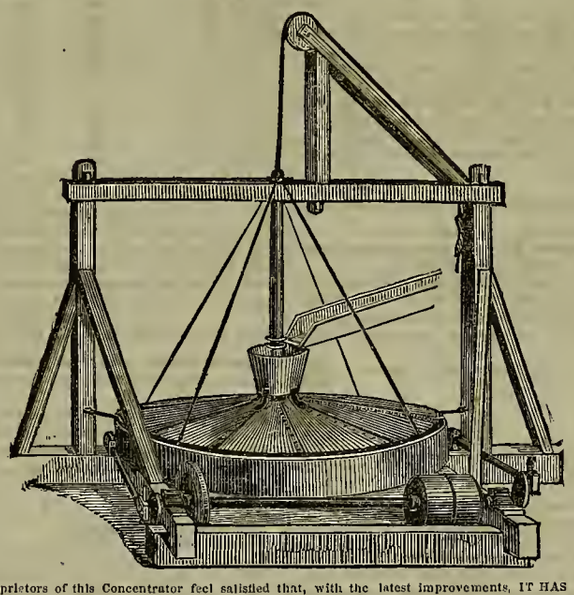
GODDARD & COMPANY.

GOLD AND SILVER ORES.

UNDENIABLE FACTS FOR THE MINING PUBLIC.

At the Exhibition in the Fall of 1864, the Mechanics' Institute awarded a Premium to E. B. PRATER,

FOR THE BEST CONCENTRATOR.



The proprietors of this Concentrator feel satisfied that, with the latest improvements, IT HAS NO EQUAL IN USE. Large numbers of these Machines are now in successful operation in different parts of this State, Arizona, Nevada, Colorado, Idaho, and Mexico. One of these Concentrators can be seen in operation at the San Francisco Foundry, northeast corner of Fremont and Mission streets.

The Prater Concentrator was invented at Washoe in the year 1863, and patented December 6, 1864; since which time it has got into successful operation, as above stated, and as an evidence of its worth, orders frequently come from those who have used them. The following telegraphic dispatch has just been received by the Fulton Foundry, from one that got a Prater Concentrator about four months ago:

Portland, Oregon, August 3, 1865.—Send one of Prater's Concentrators by first steamer. A. C RIPLEY.

Two Concentrators were ordered on the 26th August, 1865, for the Buell Mill, Austin, Reese River District, by J. R Murphy, who has been using them over twelve months

Circulars sent free, giving description and reference as to working, etc., on application to

HUNGERFORD & HENDY, Proprietors.

2v11-1am **402 Montgomery st., Express Building, Room No. 3 (fourth floor) San Francisco.**

A. ROMAN & COMPANY,

BOOKSELLERS, IMPORTERS and PUBLISHERS,

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Offer for sale a large and well-selected stock of Works on the **Mechanical Arts,**

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MANUFACTURE ALL KINDS OF

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STEAM ENGINES AND QUARTZ MILLS

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.

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NEW GRINDER AND AMALGAMATOR,

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AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

FULTON Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

SAN FRANCISCO Foundry and Machine Works,

N. E. Cor. Fremont and Mission streets,

Manufacturers of

Marine and Stationery Engines'

Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.

—ALSO—

Wine, Cider, Cotton and Tobacco Presses of the latest Improved Patterns.

Brodie's Improved Patent WIND BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Baux & Guiod's Amalgamator and Separator; W. W. Tupper's Patent Sectional Crate Bar; Coal Oil Well Boring Machinery complete, on hand.

STEAM ENGINES AND BOILERS,

Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.

MACHINERY, OF ALL DESCRIPTIONS,

Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates.

6v11-1y **DEVOE, DINSMORE & CO.**

Novelty Iron Works,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY.* Send for a Circular.

E. T. STEEN.

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PORTLAND BOILER WORKS.

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N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

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JOHN LOCHHEAD'S STEAM ENGINE WORKS,

Beale Street, near Mission Street,

SAN FRANCISCO.

Steam Engines of every description built to order—Marine Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer.

NEW BUSINESS DIRECTORY.—A. N. Rood & Co., recently commenced the publication of a Monthly Business Directory for this city, which contain some novel and useful features. It presents, in a neat pocket edition, a perfect business guide to most of the leading firms in the city, with an alphabetical index arranged in business classification. The work also contains several pages of useful information, such as the "Fire-Alarm Telegraph Stations," a "New Table of Stamp Duties," etc. The number before us contains eighty-six pages of printed matter, comprising one or more of the leading business firms in every branch of trade in the city; railroad and steamboat connections; ocean steamships, etc. The work is gratuitously circulated throughout the city and State. Important and novel features will be added from month to month, to render the publication novel and interesting. It is printed in the MINING AND SCIENTIFIC PRESS JOB PRINTING OFFICE.

BACK VOLUMES.

Back files of the MINING AND SCIENTIFIC PRESS, from January 1st, 1864, to the present time, will be furnished at $3 per volume of six months; bound in cloth, $5.

Mining and Scientific Press

JOB PRINTING OFFICE,

No. 505 Clay street, corner of Sansome.

CERTIFICATES
— OF —
STOCK
— FOR —
MINING
— AND —
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Neatly Printed.

Stock Certificates of all kinds embellished with wood cuts and electrotype engravings. We devote special attention to the execution of all kinds of work required by Mining Companies, Machinists and Manufacturers.

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For Sale
AT THE
OFFICE OF THE MINING AND SCIENTIFIC PRESS
No. 505 Clay Street, corner of Sansome.

Blanks for Mining Companies, Secretaries, Shareholders and others, always on hand, or printed to order, at our office.

Among others are those of the following forms:

Shareholder's Proxy.

Know all men by these presents, that I, ... do hereby constitute and appoint ..... my attorney and agent, for me and in my name, to vote as my proxy, at a meeting of the ..... Mining Company, to be held ..... 186 , according to the number of votes that I should be entitled to cast were I there personally present.

In witness whereof I have this day hereunto set my hand and seal. .....[Seal]

Dated 186

Assessment Notice.

..... Company

.....

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the ..th day of ....., 186 , an Assessment of .....per share was levied upon the Capital Stock of said Company, payable on the ..th day of .....186 , in United States gold and silver coin to the Secretary.

Any stock on which said Assessment shall remain unpaid on Saturday, the ..th day of ....., 186 , will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on ....., the ..th day of ....., 186 , to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees.

..... Secretary.

Office.....

NOTICE.—There are delinquent, upon the following described Stock, on account of assessment levied on the ..th day of ..... 186 , the several amounts set opposite the names of the respective shareholders as follows, to wit:

Names.	No. Certificate.	No. Shares.	Amount.
Theophilus Thistle	23	14	$140 00
Peter Pipe	2	3	30 00

And in accordance with law and an order of the Board of Trustees, made on the ..th day of ..... 186 , so many shares of each parcel of said stock as may be necessary, will be sold at the.....
....., on ....., the ..th day of.....186 , at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

..... Secretary.

Office.....

☞ Our advertisers are furnished with blank Assessment Sale notices free of charge. Orders from the interior promptly filled, by mail or express, as may be desired.

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Camargo Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment (No. 8) levied on the 21st day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
H H Allen	40	9	$45 00
R W Heath	112	1	5 00
N B Jacobs	85	4	20 00
N B Jacobs & Co	74	7	35 00
A To'd	109	15	75 00
John Wightman	113	1	5 00
W B C Harker	28	6	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 21st day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Jones & Boudixen, auctioneers, at the office of the Company, on the 9th day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. no25

Chicago Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of November, 1865, an assessment of two dollars ($2) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 15th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. no25

Chloride Ledge Gold and Silver Mining Company—Location of Mine: Blue Mountain District, Calaveras County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 16th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allen, Doty	10	20	$ 20 00
Agnew, John	20	20	20 00
Bunker, H S	20	5	5 00
Bigsby, C B	34	5	5 00
Cooper, Chas	26	5	5 00
Gadsby, E H	31	20	20 00
Greaves, Benj	26	5	5 00
Larkin, C H	4	20	20 00
Schwartz, H	5	20	20 00
Schultze, A	9	50	50 00
Strader, Wm	38	25	25 00
Watson, J T	12	10	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 14th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salerooms of Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on the 9th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

R. H SMITH, Secretary.

Office, No. 506 Montgomery street, San Francisco. no25

Eagle Quartz Mining Company—Location of Mine and Mill, Amador County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 23d day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
E P Cutter	151	15	$11 25
J P Dulip	26	10	7 50
J P Dulip	87	5	3 75
J E Hanson	161	184	138 00
S R Harris	137	100	75 00
J S Haskell	30	10	7 50
J S Haskell	35	20	15 00
Isaac Rowell	8	25	18 75
Eli Schell	165	40	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of John Middleton & Son, 404 Montgomery street, San Francisco, on the 11th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

JOHN M. BURNETT, Secretary.

Office, 605 Montgomery street, San Francisco. no25

La Favorita Mining Company, Montezuma District, Sonora, Mexico.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 30th of August and 25th day of October, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Henry Pforr	30	5	$ 5 00
Henry Pforr	31	10	10 00
Henry Pforr	32	20	20 00
Henry Pforr	33	20	20 00
Henry Pforr	34	40	40 00

And in accordance with law, and an order of the Board of Trustees, made on the 25th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the salesrooms of Olney & Co., 626 Montgomery street, San Francisco, on Saturday, the 9th day of December, 1865, at the hour of 3 o'clock, P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

E. WASSERMAN, Secretary.

Office, 429 Sacramento street, San Francisco. no25

Segregated Belcher Mining Company, Gold Hill District, Storey County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 25th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Burke, E R	2, 3	100-ea 200	$800 00
Burke, E R	13	10	40 00
Burke, E R	14	3	12 00
Blasdell, H G	43, 44, 45, 46, 47 48, 49, 50	20 ea 160	640 00
Blasdell, H G	51, 52, 53, 54, 55 56, 57, 58	10 ea 80	320 00
Blasdell, H G	60, 60, 61, 62, 63 64, 65, 66, 67, 68 69, 70, 71, 72 73	74 5-ea 80	320 00
Apple, R	18	2,000	8,000 00
Apple, R	81, 87, 89	400 ea 1,200	4,800 00
Apple, R	82	183	732 00
Apple, R	90	320	1,280 00
Harmon, A K P	15	200	800 00
Livingston, F	88	400	1,600 00
Wheeler, C T	20, 21, 22, 23, 24	40-ea 200	800 00
Wheeler, C T	25, 26, 27, 28, 29 30, 31, 32, 33, 34	20-ea 200	800 00

And in accordance with law and an order of the Board of Trustees, made on the 25th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the Salesroom of J. Middleton & Son, 404 Montgomery street, San Francisco, on the 9th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

JOHN F. LOHSE, Secretary.

Office, 318 California street, up stairs. no25

Santa Cruz Petroleum Oil Works Company. Location of works: Santa Cruz County, Cal.

NOTICE.—There are delinquent upon the following described Stock, on account of Assessment No. 14, levied on the 23d day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Blasdell, Mrs E F	670	21	$ 8 40
Brooks, Edmd	737	50	20 00
Carr, Mrs A L	211	5	2 00
Carr, Mrs A L	212	5	2 00
Carr, Mrs A L	310	1	40
Carr, Mrs A L	571	5	2 00
Campbell, Mrs Cath E	696	100	40 00
Gallagher, F D	740	10	4 00
Hart, Miss Frances M	617	1 0	40 00
Hardy, Dr E F	536	80	32 00
Ingols, Mrs Marg R	68	1	40
Ingols, Mrs Marg R	60	2	80
Langdom, Dr Sam'l	173	20	8
Langdom, Dr Sam'l	174	20	8
Langdom, Dr Sam'l	175	20	8
Langdom, Dr Sam'l	176	20	8 90
Langdom, Dr Sam'l	222	50	20 00
Langdom, Dr Sam'l	342	11	4 40
Lott, C F	564	100	40 00
Lott, C F	565	100	40 00
McCombe, John	736	6	2 40
McComb, James	739	25	10 00
Norcross, Mrs E J	70	3	1 20
Root, W D	622	50	20 00
Root, W D	633	52	20 80
Shirley, T W	618	100	40 00
Shirley, T W	619	50	20 00
Shirley, T W	620	107	42 80
Shirley, T W	687	50	20 00
Stewart, J M	21	50	20 00
Stewart, J M	269	7	2 80
Sheldon, John P	732	30	12 00
Sheldon, John P	733	200	80 00
Tillinghast, W H	1	30	12 00
Tillinghast, W H	351	4	1 60
Tillinghast, W H	409	50	20 00
Tillinghast, W H	714	16	6 40
Whitney, H M	125	5	2 00
Waterman, D C	188	5	2 00

And in accordance with law and an order of the Board of Trustees, made on the 23d day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Cobb & Sinton, at No. 406 Montgomery street, San Francisco, Cal., on the 14th day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

R. WEGENER, Secretary.

Office, 415 Montgomery street, San Francisco. no25

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander County, Nevada.

All persons are hereby cautioned NOT to purchase the following described Certificates of Stock, sold for delinquent Assessment No. 7, as said certificates will not be transferred on the Books of the Company, viz:

In name of	Certificate.	Shares.	Shares Sold.
Work, Geo	195	2	2
Sharp, G F	46	4	4

Per order of Board of Trustees.

San Francisco, Nov. 20, 1865

E. J. DRINKHOUSE, Secretary.

Office, No. 228 Front street, San Francisco, Cal.

Notice.—The Annual Meeting of the Stockholders of the UNITED STATES MINING COMPANY, will be held at the Office of the Company, on Monday, December 25th, 1865, at 3 o'clock, P. M.

J. M. BUFFINGTON, Secretary.

San Francisco, November 25th, 1865. no25

Mining Notices—Continued.

Astor Gold and Silver Mining Company, Gold Hill, Storey County, State of Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 9th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Ware, C W	129 to 131 inc	75	$112 50
Ware, G W	128	20	30 00
L Josepb	73	10	15 00

And in accordance with law, and an order of the Board of Trustees, made on the 9th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., at 626 Montgomery street, San Francisco, Cal., on Monday, the 27th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco. novll

Comet Petroleum Company.—Location of Works: Humboldt County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 13th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
S M Balch	1	25	$ 7 50
S M Balch	23	50	15 00
Warren J Chapman	2	12	3 60
R L Holman	3	13	3 90
Geo J Hughston	4	25	7 50
Geo J Hughston	5	25	7 50
B C Howard	6	50	15 00
B C Howard	7	300	90 00
Geo K Paul	8	50	15 00
Martha J Larrimore	14	100	bal 10 00
B C H ward	19	100	30 00
Geo J Hughston	24	50	15 00
J S Wertheimer	27	40	12 00
Geo W Menomy & Co	28	100	30 00
H Steele	33	200	60 00
William Green	35	50	15 00
J T Dean	38	100	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 13th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., at 626 Montgomery street, San Francisco, Cal., on Monday, the 4th day of December, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

L. CROSBY, Secretary.

Office, 35 Exchange Building, northwest corner Montgomery and Washington streets, San Francisco. no18

Chipionema Mining Company, District of Ures, Sonora, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of November, 1865, an assessment of five dollars ($5) per share was levied upon the capital stock of said Company, payable on the 6th day of November, 1865, in United States gold and silver coin, to the Secretary, 318 California street, (up stairs.)

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

JOHN F. LOHSE, Secretary.

Office, 318 California street, San Francisco, Cal. nov4

George Washington Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal. Assessment No. 8.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 6th day of November, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, only.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 26th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, 338 Montgomery street, San Francisco. novll

Goodwin Gold and Silver Mining Company, Simpson Park Mining District, Lander County, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of November, 1865, an assessment of two dollars per share was levied upon the capital stock of said Company, payable on the 11th day of November, 1865, in United States gold and silver coin, to the Secretary, corner of Battery and Washington streets, San Francisco, Cal., or to S. C. BAKER, Austin, State of Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

E. V. JOICE, Secretary.

Office, corner Battery and Washington streets. novll

Jefferson Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 2, levied September 25, 1863, of fifty cents; No. 3, December 11, 1863, of fifty cents; No. 4, February 4, 1864, of one dollar, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No 2, No. 3.	No. 4.	No. Cert.	No. Shs.	Amt.
W K Smith	$10 $10 00	$20 00	4	20	$ 40 00
L B Seaver hal	15 15 00	30 00	23, 26	40	60 00
J T Cassell	5 01	10 00	10	10	15 00
Clarke & Blakeley	4 63	9 25	44	9½	13 88
S T Curtis	40 00	80 00	95, 102 ea	10	120 00
S T Curtis	6 25	12 50	103	12½	18 75
Jas McGahey	3 12	6 25	22	5½	9 37
Chas Pinkerton	4 62	9 25	31	9¼	13 87
J S Brown		11 00	130	11	11 00
J S Brown		9 00	140	9	9 00
S O Clifford		12 50	112	12½	12 50
S O Clifford		25 00	131	25	25 00
P F Doling		20 00	3	20	20 00
A J Bonzel		10 00	5	10	10 00
G H Faulkner		5 00	41	5	5 00
Jos Gilbert		20 00	65	20	20 00
Jos Gilbert		20 00	66	20	20 00
Jos Gilbert		20 00	67	20	20 00
Jos Gilbert		6 00	135	6	5 00
W B Gilham		7 00	133	7	7 00
W B Gilham		5 00	40	5	5 00
N B Jacobs & Co		10 00	42	10	10 00
J L James		15 00	143	15	15 00
H V Rex		12 00	134	12	12 00
J O Sweetland		5 00	120	5	5 00
H C Woodford		20 00	12	20	20 00
N A Watson		10 00	115	10	10 00
N A Watson		25 00	144	25	25 00
N A Watson		46 50	147	46½	46 50

And in accordance with law and an order of the Board of Trustees, made on the 31st day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, by Jones & Boudixen, auctioneers, on the 1st day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. nov4

Jewett Gold and Silver Mining Company, Gold Hill District, Storey County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of an assessment levied on the 11th day of October, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
J N Ophtaly	77	100	$100 00
S R Harris	88	20	20 00
S R Harris	89	20	20 00
Chas S Bowden	96	25	25 00
Chas S Bowden	97	10	10 00
Gerard Dolney	129	18	8 00
Jacob Hardy	139	20	20 00
C E McNear	not issued	82	82 00

And in accordance with law, and an order of the Board of Trustees, made on the 11th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, at the salesrooms of Maurice Dore & Co., No. 327 Montgomery street, on the 25th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

nov11 G. M. DURNHAM, Secretary pro tem.

Kenkuk Gold, Silver and Copper Mining Company, Clayton Mining District, Contra Costa County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of October, 1865, an assessment of ten (10) cents per share was levied upon the capital stock of said Company, payable on the 18th day of November, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, 308 and 310 Front street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

A. B. WINEGAR, Secretary.

Office, 308 and 310 Front street, San Francisco, Cal. oc21

N. B.—This assessment is re-advertised. nov18

Knox Gold and Silver Mining Company, I X L Lode, Silver Mountain District, Alpine County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 7th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
C W Edgerly	7	10	$ 4 00
C W Edgerly	8	10	4 00
C W Edgerly	14	25	10 00
C W Edgerly	15	5	2 00
C W Edgerly	38	5	2 00
A L Knox	18	5	2 00
A L Knox	not issued	115	46 00
R Snodgrass	not issued	72½	29 00
P A Owens	not issued	72½	29 00
E W Travers	not issued	72½	29 00
J F Myers	not issued	62½	25 00
Jos Harris	25	10	4 00
A J Keat	27	5	2 00
R Thompson	28	5	2 00
J M Wentworth	29	10	4 00
J F Staniels	30	10	4 00
J F Staniels	31	5	2 00
T A Duffield	32	5	2 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of John Middleton & Son, 404 Montgomery street, San Francisco, on the 25th day of November, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

SAM. P. HOWES, Secretary.

Office, No. 2 Odd Fellows' Hall, San Francisco. nov11

Madison Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent, upon the following described stock, on account of assessment No. 3, levied on the 27th of November, 1863, of fifty cents per share, and No. 4, levied February 4th, 1864, of one dollar per share, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. 3.	No. 4.	No. Cert.	No. Shs.	Amt.
B C Austin	$12 50	$25 00	68	25	$37 50
A J Dryant	2 50	5 00	99	5	7 50
S O Clifford	4 50	9 00	51	9	13 50
S O Clifford		45 00	53	45	45 00
S O Clifford		5 00	54	5	5 00
S O Clifford		5 00	56	5	5 00
S O Clifford		5 00	57	5	5 00
S O Clifford		5 00	58	5	5 00
S O Clifford		71 50	63	71½	71 50
S O Clifford		14 00	118	14	14 00
Chas G Going	bal	2 25	101	6½	2 25
N B Jacobs	5 00	10 00	75	10	15 00
Chas G Going		10 00	104	10	10 00
Chas G Going		10 00	105	10	10 00
P McAllister		25 00	16	25	25 00
P McAllister		25 00	17	25	25 00
P McAllister		25 00	18	25	25 00
P McAllister		25 00	19	25	25 00
P McAllister		10 00	21	10	10 00
J C Morrison Jr	2 50	5 00	98	5	7 50
D P McHarg		10 00	106	10	10 00
C M Pryor	20 00	40 00	48	40	60 00
C M Pryor		5 00	37	5	5 00
B L Plummer		10 00	83	10	10 00
L A Spitzer		5 00	126	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 31st day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 1st day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. nov4

A Business Compliment.

PETALUMA, Oct. 4, 1865.

MESSRS. DEWEY & CO.—Gentlemen: Your note informing me that my patent for Crushing and Baling Machine is ordered to issue is at hand. Please accept my thanks for the prompt and business-like manner with which the case has been conducted, and inclosed find twenty dollars for balance Government fees. Respectfully, etc.

JACOB PRICE.

Mount Davidson Gold and Silver Mining Company, Virginia District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of November, 1865, an assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 3d day of November, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 20th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

G. PARDOW, Secretary.

Office, 53 Montgomery Block, San Francisco. nov4

Maria Silver Mining Company.—Location of Works: Chihuahua, Mexico.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 10th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
A Austin	177	10	$10 00
F J Herrmann	5, 108	30	30 00
John Weinman	0	10	10 00
G Zuiselc	7	5	5 00
Aug Schmitt	10	10	10 00
Jean Colly	10	10	10 00
J N Guillemin	18	50	50 00
Joseph Jaqcot	24, 25	20	20 00
H Th men	30	10	10 0
Philip Heuer	32	5	5 00
B Bertrand	40	10	10 00
M A Dunaud	43	20	20 00
P Dilck	48	5	5 00
J Wellhoff	10	10	10 00
L Thiele	53	10	10 00
Henry Shmitt	54, 59	35	35 00
V Squarza	55	20	20 00
Cas Fiely	57	10	10 00
Joseph Hug	60	25	25 00
D Baque	69	25	25 00
P R Schmidt	72, 156	35	35 00
L C Schmidt	73	10	10 00
Victor Hoffman	111	50	50 00
J Veillier	168, 174	50	50 00
A Pavillier	121	25	25 00
A Moutardier	122	10	10 00
M Maugels	123	5	5 00
Henry Schmitt	126, 127	30	30 00
J Warshawsky & Co	135, 176	25	25 00
S H Pianer	146	10	10 00
Alex Meyer	139, 150	10	10 00
W Shultze	157	5	5 00
J P Schmitz	181, 162	10	10 00
M Heineman	170	15	15 00
R Feigo	19	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 16th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at No. 626 Montgomery street, San Francisco, Cal., on the 2d day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

AUGUST KUNAST, Secretary.

Office, 540 Washington street. nov18

Oroville Gold, Silver and Copper Mining Company.—Location of Works: Oroville, Butte County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 7th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cerlificate.	No. Shares.	Amount.
S B Bissell	50	25	$25 00
S B Bissell	53	62	62 00
Calvin Brown	34	50	50 00
Frank E Brown	33	50	50 00
Richard Chenery	51	90	90 00
Chas A Morse	48	100	100 00
J E de la Montagnie	47	100	100 00
E C Doran	41	10	10 00
A Powell	24	50	50 00
J C Eldredge	21	20	20 00
Sarah J Wiuslow	49	10	10 00
C W Reilly	39	5	5 00
R P Lee	52	283	283 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at No. 626 Montgomery street, San Francisco, Cal., on the 2d day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

ROBT. P. LEE, Secretary.

Office, No. 434 California street, San Francisco. nov18

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine County, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of October, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable on the 31st day of October, 1865, in United States gold and silver coin, to the Secretary, at his office, No. 55 Montgomery Block, City and County of San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 16th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, southeast corner of Washington and Montgomery streets, San Francisco. nov4

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible.

Table Mountain Copper Mining Company, Stanislaus District, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 1st day of November, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, in San Francisco, or to J. M. PIKE, Superintendent, at Copperopolis.

Any stock upon which said assessment shall remain unpaid on Saturday, the 2d day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 18th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

EDWARD C. LOVELL, Secretary.

Office, No. 436 Jackson street, San Francisco, California. nov4

United States Mining Company.—Location, Virginia, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 15th day of November, 1865, an assessment of fifty cents per share was levied on each and every share of the capital stock of said Company, payable immediately, in gold or silver coin of the United States, to the Secretary, at his office, or to F. A. MARSTON, Virginia, Nevada.

Any stock upon which said assessment shall remain unpaid on the 16th day of December, 1865, will be advertised as delinquent, and unless paid, will be sold on Saturday, the 30th day of December, 1865, to pay said delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. M. BUFFINGTON, Secretary.

Office, No. 10 Government House, corner Sansome and Washington streets, San Francisco, Cal. nov18

Wide West Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of November, 1865, an assessment of one dollar ($1) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, or to the Superintendent at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOSEPH OREEN, Secretary.

Office, 330 Davis street, corner of Washington street, San Francisco. no18

Wide West Mining Company, Esmeralda District, Esmeralda County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessments levied on the 18th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Joseph Aron	1261	10	50 00
V Ackor	2784	10	50 00
D Armstrong	2656	5	25 00
D Armstroeg	2671	10	50 00
F Angel	2089	5	25 00
Joseph Bassett	1170	5	25 00
Joseph Bassett	2321	10	50 00
Alfred Borel	1586, 2106 10 ea	20	100 00
H Brannan	1452	1	5 00
R Bayerquo	2477, 2478 10 ea	20	100 00
Borker & Rosenfield	2351	20	100 00
Borker & Rosenfield	2727	10	50 00
Cec O Blake	2508, 2507 20 ea	40	200 00
Ceo O Blake	2389	20	100 00
A W Burnham	2739	¾	3 75
Joseph Chadbourno	1300	10	50 00
H K Curtis	1524	5	25 00
J T Carter	bal 1632	1¾	8 75
W T Coleman	bal 2129	½	2 50
W T Coleman & Co	2073	10	50 00
T W Colburn	2783, 2785, 2786 10 ea	30	150 00
T W Colburn	2787, 2789 10 ea	20	100 00
T W Colburn	2790, 2791, 2792 10 ea	30	150 00
T W Colburn	2793, 2794, 2795 10 ea	30	150 00
T W Colburn	2796	15	75 00
T W Colburn	2797	20	100 00
Thos Condon	2683	10	50 00
John Dunn	1049	1	5 00
J P Davis	2251, 2252 10 ea	20	100 00
J P Davis	2720, 2721, 2452 10 ea	30	150 00
J P Davis	2722	6	30 00
Antonio Descazo	bal 2473	2½	12 50
J L Eklof	2693	10	50 00
Mary Furger	1354	1	5 00
John Fine	1772	2	10 00
Robt H Fulton	bal 2153	2½	12 50
Henry Fischer	2730	2	10 00
P Fitz Hugh	2806	10	50 00
John Ferrie	2747, 2748, 10 ea	20	100 00
John Ferrie	2752, 2755 2756 10 ea	30	150 00
John Ferrie	2757, 2759 10 ea	20	100 00
John Ferrie	2774	10	50 00
John Ferrie	2761	3	15 00
John Ferrie	2776	10	50 00
John Ferrie	2760	10	50 00
H W Fortuns	2806	20	100 00
D Gonzales	2583	5	25 00
J E Garrett	2755	10	50 00
I N Green	bal 2128	½	2 50
G S Gladwin	2700	10	50 00
Louis Cestlo	2409	20	100 00
J W Gardner	2591	5	25 00
J W Gardner	2699	10	50 00
C E Gibbs	2662	10	50 00
N E Grimes	2731	9	45 00
N E Grimes	2732, 2733 ½-ea	1	5 00
S Hubbard	744	3	15 00
H Hadler	bal 2015	3¼	16 25
Samuel J Hopkins	978	2	10 00
Jacob Hess	1083, 1590 1-ea	2	10 00
M Heinemann	2760, 2811 10 ea	20	100 00
John Hewston, jr	bal 1090	2	10 00
John Hewston, jr	bal 1597	1	5 00
J Herzberg	2308	7	35 00
J Herzberg	2309	10	50 00
T W Hackett	2674	5	25 00
T W Hackett	2690	10	50 00
John Harding	2514	10	50 00
Thos Hill, Trustee	2521	10	50 00
T W Hinchman	2813, 2814, 2815 10 ea	30	150 00
Geo R Jesse	1751	5	25 00
S Kline	bal 1280	¾	3 75
Chas Keyser	bal 2212	½	7 50
F Klosteman	2695	20	100 00
Kate Kelly	2694	5	25 00
Theo Le Roy	965	4	20 00
H Levy	1120	5	25 00
B Lulofs	1357, 1501 5-ea	10	50 00
B Lulofs	2446	11	55 00
B Lulofs	2447, 2448, 2449 10-ea	30	150 00
J Landsberger	2109	10	50 00
C Simon Lipman	2563	10	50 00
W O Lauenstein	bal 1970	2½	12 50
H S Lunt	2271	4	20 00
D S Lunt	2274	1	5 00
Chas Lumbard	2771, 2772 10-ea	20	100 00
Chas Mayne	bal 1813	2	10 00
Chas Mayne	bal 1950	2¾	12 50
Chas Mayne	bal 2043	3	15 00
Dan'l Murphy	1340, 1558 each	4	40 00
Dan'l Murphy	1398, 1401 each	5	50 00
Dan'l Murphy	1753	10	50 00
Dan'l Murphy	1900	15	75 00
Dan'l Murphy	2419	2	10 00
W Mathes on	bal 1439	¼	2 50
A Meyerson	1407	5	25 00
J Mena	2492	15	75 00
Louis Mermond	2497	5	25 00
J S Mitchell	2505, 2641 10-en	20	100 00
E Martin	1804	10	50 00
Christopher Nelson	2353	2	10 00
V Noly	2675	20	100 00
Thos Nolson	2565	20	100 00
Thos Nelson	2568	10	50 00
John O'Brien	2740	5	25 00
Pease & Crimm	2749	10	50 00
Nathaniel Page	2264	20	100 00
Nathaniel Page	2265	10	50 00
Jas Phelan	1834	10	50 00
Jos Plaw	2808	10	50 00
J B Pabuler	2765, 2760, 2767 10 en	30	150 00
J B Painter	2768, 2789, 2770 10 en	30	150 00
S G Reed	1001, 1023 5-en	10	50 00
Wm Ready	2738	10	50 00
F Seibol	1178	5	25 00
P Sather	1318	10	50 00
J P Schmitz	bal 2628	1	5 00
C H Simpkens	2060	10	50 00
C A Schmitt	bal 2466	2½	12 50
C A Schmitt	2511, 2682 10-en	20	100 00
Schultz & Van Bergen	2413	20	100 00
Schultz & Van Bergen	2444, 2445 2402 10-en	30	150 00
John Sebneider	2527	10	50 00
Chas E Scrauton	2559	20	100 00
Theo E Smith	2572, 2762 10-en	20	100 00
E L Smith	2851, 2853 10-en	20	100 00
Z W Sparks	2799, 2800, 2801 10 en	30	150 00
C Steveos, trustee	2816	10	50 00
A C Tietman	2174, 2175, 2177 10-ea	30	150 00
Oliver Taylor	2358	9	45 00
Oliver Taylor	2550, 2649, 2668 10-en	30	150 00
Oliver Taylor	2540	6	30 00
Oliver Taylor	2646	5	25 00
Oliver Taylor	2703, 2704, 2716 10-ea	30	150 00
Chas Upton	653	5	25 00
A Unger	2028	10	50 00
Unger Bros	2142	10	50 00
Unger Bros	2242	20	100 00
D Wetgan	1429	2	10 00
A Wolf	bal 2143	¾	3 75
A Wolf	bal 2154	¼	1 25
F J White	2808, 2809, 2810 10-ea	30	150 00
E J White	2811, 2812 10-en	20	100 00
T E Wilke	2736	10	50 00
Ceo O Whitney	2782	10	50 00
J Van Bergen	144, 327 10-ea	20	100 00
Danl Shute	2253	10	50 00

And in accordance with law, and an order of the Board of Trustees, made on the 18th day of October, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the salesrooms of John Middleton & Son, No. 404 Montgomery street, San Francisco, on Monday, the 4th of day December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

J. P. DAVIS, Secretary.

Office, No. 103 California street, San Francisco. no18

Yuba Gold and Silver Mining Company, Brown's Valley, Yuba County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of November, 1865, an assessment of two dollars and fifty cents ($2.50) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, No. 210 Pine street, up stairs, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

P. R. RINGSTROM, Secretary.

Office, 210 Pine street.

N. B.—The above assessment is for the purchase of Machinery, nov18

Office Zenith Gold and Silver Mining Company, Mountain Rauch District, Calaveras County, California.

At a meeting of the Board of Trustees, held November 6th, 1865, it was "Resolved, That all previous assessments levied upon the stock of this Company, being

No. 1, September 24, 1863—25 cents per share;
No. 2, October 13, 1863—20 cents per share;
No. 3, December 2, 1863—30 cents per share;
No. 4, January 8, 1864—$1 per share;
No. 5, May 3, 1864—50 cents per share;
No. 6, August 15, 1864—50 cents per share;

be, and the same are hereby annulled and declared void, and that all moneys paid to the Company on said assessments be placed to the credit of the stock on which it was paid, and apply as a credit upon the next assessment levied by the Company. By order of the Board of Trustees.

M. G. ELMORE, Secretary.

Office, No. 7 Stevenson Block, San Francisco. no11 4w

Zenith Gold and Silver Mining Company, Mountain Ranch District, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 6th day of November, 1865, an assessment of three dollars and twenty-five cents ($3.25) per share was levied upon the assessable stock of said Company, payable immediately, in United States gold coin, to the Secretary, No. 7 Stevenson Block, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 23d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

M. O. ELMORE, Secretary.

Office, No. 7 Stevenson Block, San Francisco. nov11

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

PRESERVING TIMBER.—Announcement has been made of a new process for the preservation of timber. According to report it is applied to the trees before they are cut down, and renders the wood so hard, though newly felled, that its durability seems unlimited. The truth of the matter will shortly be tested, for the inventor is to supply a large number of railway-sleepers and telegraph posts warranted to last fifty years. And where is the railway company that could refuse to take such very durable timber into use?

WHY THE EGYPTIANS EMBALMED.—The Egyptians believed that at some future time the souls of men would be allowed to return to the resting places of their bodies, and if these last were in a state of preservation, there was a reunion and the enjoyment of a new state of existence. If the earthly tenement had been decomposed or destroyed, the spiritual essence was now doomed to perish. Hence the pious attention paid to the embalming of ancestors, and the judicial destruction of the dead bodies of those whose lives had been eminently wicked.

IT is curious to observe in how many of the lives of our great men there occurs the mention of some friend, unknown to the mass of mankind, to whom the great man acknowledged the deepest obligation. The world must abound in these secret springs and treasures.

IT costs twenty dollars a ton for transportation of merchandise per hundred miles on an ordinary road, two dollars on a railroad, and twenty cents on the ocean, for the same distance.

Deserved Testimonial.

GRIZZLY FLAT, Oct. 18, 1865.

MESSRS. HUNGERFORD & HENDY—*Gentlemen:* We have run your Concentrator for several days past, in our 5 stamp Mill, and, as far as can be ascertained at present, it is a perfect success. When running at the rate of from two hundred and ten to two hundred and twenty-five revolutions per minute, we have lost neither quicksilver nor sulphurets. Formerly, when using copperplate riffles and blankets, we found that in spite of the utmost precaution, quicksilver would escape over them all. Wishing you all success, we remain Your obedient servants,

E. A. BIGLER.
S. F. DAVIS.

17v11qy

Spectacle Emporium.

Purchase none but perfect Spectacles adapted to your sight, from

C. MULLER,

OPTICIAN,

No. 3 Montgomery street, Masonic Temple, San Francisco. Old Frames reset with suitable Glasses or Brazilian Pebbles. 15v11-2m

REMOVAL!

R. WEGENER,

Accountant and Mining Secretary

Has removed to

No. 415 Montgomery Street—west side,

Between Sacramento and California sts.,

6v10 SAN FRANCISCO.

HUTCHINSON'S

Wine and Cider Mills.

FOR SALE,

THE EXCLUSIVE RIGHT FOR CALIFORNIA AND OREgon, or both, to Hutchinson's Wine and Cider Mills and Presses. To a person of small capital an unparalleled opportunity for a most profitable investment offers.

Apply to

A. T. DEWEY,
Mining and Scientific Press office.
Or to ISRAEL W. KNOX,
19v11tf Golden State Iron Works, San Francisco.

Copper, Lead, Gold, Silver,

Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,

Agent for Townshend, Wood & Co., Swansea,

No. 406 California Street, San Francisco.
15v10-3m

MARTIN & CO.,

Office, Stevenson House,

Corner California and Montgomery streets (up stairs).

WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES,

Assaying eight per cent. and upwards of Copper to the

We will make advances upon Ores of Copper.
San Francisco, Post Office Box 1259, 22

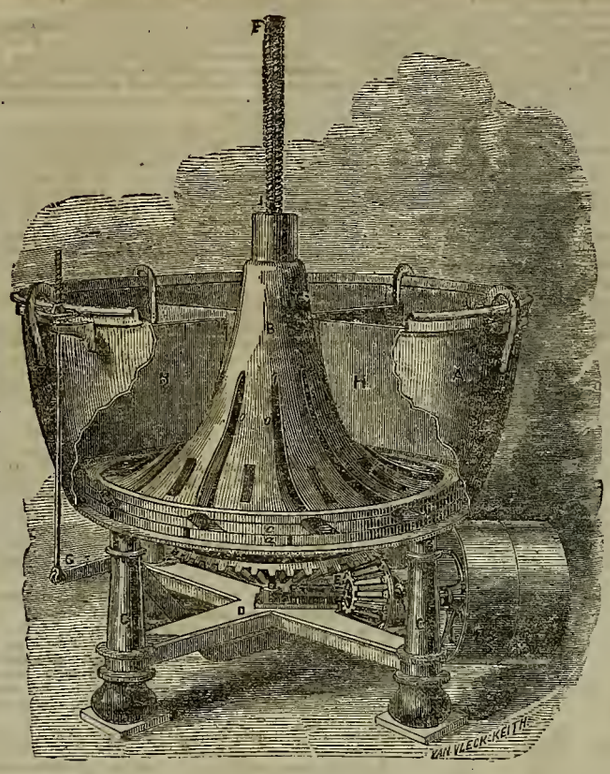
VALUABLE

PATENT RIGHT

FOR SALE.

The patent right for the United States of a valuable invention can be secured at a bargain by applying at this office. The article is one of general application throughout civilization.

DEWEY & CO., Publishers.



THE EXCELSIOR

GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

Union Iron Works and Golden State Iron Works.

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.

EUREKA

PATENT BLASTING POWDER,

Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets.

Room No. 9, with San Francisco Chemical Works,

CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2v11qy

WILLIAM PENROSE,

Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,

Is prepared to buy in any quantity

COPPER, SILVER, GOLD, LEAD

AND OTHER VALUABLE ORES;

Also Lead Bars Containing Gold and Silver,

☞ Full value paid on delivery in this City. ☜

Address Lock Box No. 992, P. O., San Francisco. 23v10

CALIFORNIA CLOTH,

CLOTHING MADE FROM

For Wholesale and Retail Trade,

ALSO, CLOTHING MADE TO ORDER,

AT QUINCY HALL,

Nos. 545, 547 and 549 Washington Street,

SAN FRANCISCO, CAL.

19v13m

To Mining Companies.

A GENTLEMAN OF MUCH EXPERIENCE AS A MINing Superintendent, in England, Spain, and on the Pacific coast, and one intimately acquainted with every department of mining, and with nearly every class of mineral, is desirous of securing a position as Superintendent of some mining operation in California or Nevada. The applicant was for four years Superintendent of the New Almaden Quicksilver Mine, in this State. The best of reference given on application at this office.

San Francisco, Oct. 12, 1865 5v11tf

THE STYLE

—FOR—

Fall and Winter, 1865,

Will be Introduced Aug. 26, at

MEUSSDORFFER'S

HAT MANUFACTORIES,

Nos. 635 & 637 Commercial st., San Francisco,

No. 125 J st., bet. Fourth & Fifth, Sacramento.

Corner D and Second Streets, Marysville.12v11

WE ARE NOW OFFERING

OUR IMMENSE STOCK

—OF—

Fine Custom Made Clothing

—AND—

Gents' Furnishing Goods

AT PRICES THAT DEFY COMPETITION.

Our Stock of Clothing Consists of

ALL THE LATEST STYLES

BOTH OF MATERIAL AND FINISH.

A Large Assortment of

Trunks, Valises, Carpet Bags, Blankets, Etc.,

AT EXTREMELY LOW PRICES.

J. R. MEAD & CO.,

8v10 Cor. of Washington and Sansome streets.

SAN FRANCISCO

CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at **TUBBS & CO.'S,**

Nos. 611 and 613 Front street.

Manufactory at the Potrero. 14v10

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 6, 1865 11v10-tf

CHARLES BERNARD,

MANUFACTURER AND DEALER IN

Family Chartres Coffee,

AND SPICES OF ALL KINDS,

No. 707 Sansome street, cor. Gold, bet. Jackson & Pacific.

First Premium Awarded

BY THE MECHANICS' INSTITUTE,

FOR BEST COFFEE AND SPICES.

The proprietor having introduced steam power in his Manufactory, has now increased facilities to supply the trade and the public in general. All articles from his establishment are guaranteed to be pure and unadulterated. The public are respectfully invited to call and convince themselves. Country orders promptly attended to.
15v11-3m

OIL WELL BORING.

J. SEVENOAKS,

Contractor

For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1229 San Francisco. 2v11

LEHIGH COAL.

200 Tons Large Lump Lehigh Coal

Now on Hand.

I am also in constant receipt of

LEHIGH COAL,

And will be able to supply it always

At the Lowest Market Price.

JAMES R. DOYLE,

20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

A VALUABLE MINERAL COLLECTION.—We find in the Tuolumne *Courier* a paragraph making note of the operations of Doctor Snell, who is increasing the size of his laboratory, and making other improvements about his premises. The *Courier* regrets that such a splendid collection of minerals and curiosities from every portion of the Pacific coast—unequalled by any other—should be exposed to danger in a frame building. It should be guarded with jealous care, in a fire-proof brick, for in a measure it is public property. The collection is composed of everything that could attract the attention of scientific men, or excite the curiosity of any one. Mr. Snell is now in his eighty first year, and as full of life and vigor as most men of forty.

In piling firewood put the bark side up. Wood piled with the bark down will not keep so well nor so dry as when the bark is upper most.

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Nisnile Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperiences of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. The MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

To Printers.

We have for sale, at a bargain, a Second-hand Half-Medium (largest size), Ruggles' Engine Job-Printing Press, of most approved pattern. It is in excellent condition, and warranted to work as good as new. Apply soon, at the office of the MINING AND SCIENTIFIC PRESS. 19v11tf

New Volume
— OF THE —
Mining and Scientific Press

Issued every Saturday. Each number contains 16 pages and 64 columns (size of Harper's Weekly).

PUBLISHED BY

DEWEY & CO.,

Patent Agents, Publishers and Job Printers
505 Clay Street, San Francisco.

THE ELEVENTH VOLUME

Of the MINING AND SCIENTIFIC PRESS commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this journal may be anticipated by its numerous and rapidly increasing readers.

We shall continue to devote a large space in our columns to the various and best methods of treating ores and saving gold and other precious metals in every form, furnishing valuable hints to millmen, prospectors, oil-workers and miners generally, not to be found in any other publication.

New machinery, latest inventions and discoveries, and all matters pertaining to the mechanical, manufacturing and industrial resources of the Pacific States, will receive careful attention.

Stock market reports will be published as received from the official records. Our carefully compiled "Mining Shareholders' Directory" will prove a faithful monitor to parties holding stock, and a desirable record for reference to brokers.

Friends pleased with our efforts in the publication of the Press can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and Newsdealers, acting as our agents, will receive liberal commissions.

☞ BOUND VOLUMES FOR SALE.☜

SUBSCRIPTION IN ADVANCE.

One Year, (two volumes)..... $5.00
Six Months, (one volume)..... 3.00

FOR ADVERTISING

Our terms are very reasonable. MINING COMPANIES are especially favored by our rates, and careful attention is given to the legal publication of MINING NOTICES.

OFFICE—No. 505 Clay street, corner of Sansome.

DEWEY & CO., Publishers.

C. W. M. SMITH .....W. B. EWER .....A. T. DEWEY

OIL WELL BORERS.

A CONTRACT WILL BE LET TO A RESPONSIBLE party to sink an Oil Well, as deep as may be required, on land belonging to the "Eel River Oil Company," situated in Humboldt county, Cal. For particulars, inquire at the office of the Company, No. 436 Jackson st., up stairs.
12v11-1m E. H. WILSON, Secretary.

Machinery.

HUNTER'S
PREMIUM
CONCENTRATOR, AMALGAMATOR
AND
SEPARATOR,
Awarded a Silver Medal at the late Mechanics' Fair.

HUNTER'S CONCENTRATOR CAN BE SEEN IN OPERATION daily at the Novelty Iron Works, Fremont street. Parties wishing to purchase Concentrators will find it to their advantage to examine the above machine before purchasing elsewhere, for the following reasons:

1st. It will work the sands from a 5-stamp battery, and save from 10 to 20 per cent. more sulphurets than any machine built on the Pacific coast.

2d. The Sulphurets are washed clean, containing less than ten per cent. of sand.

3d. The whole of the gold and amalgam is amalgamated on the copper plates; not a trace of ground mercury and scarcely a trace of metal passes off with the sand.

4th. Its simplicity is a sufficient recommendation for its general use as a Concentrator. The variation of speed in a Quartz Mill does not affect the working of the Machine. The same was demonstrated at the late Mechanics' Fair, when with the greatest IRREGULARITY OF SPEED the best of results were given.

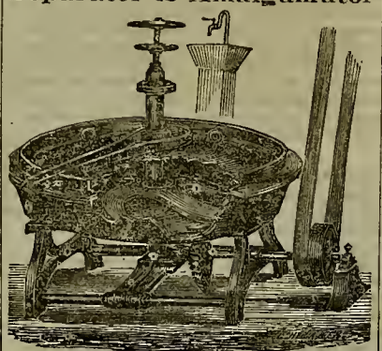
5th. There is no clogging or stopping to clean out the sulphurets and sand; consequently no waste from any inattention on the part of the attendant.

6th. In exhibiting the working of the machine (it is not run empty), all classes of ores and tailings, from 50 pounds and upwards, ore concentrated that parties may see fit to test the machine with.

Give it a trial, and satisfaction is guaranteed. All orders and any information required, address,

ANDREW HUNTER,
Novelty Iron Works, Fremont st., San Francisco,
15v13-3m Or to E. T. STEEN, Agent.

BAUX & GUIOD'S
Separator & Amalgamator



Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jefferson-ian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crall's Gravel Cement Works, Nevada county; Waltham's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Heugh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,
Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8-6tf

BLAKE'S
QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA,
WASHOE,
ENGLAND, FRANCE,
— AND —
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,
Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.
4v10

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th. [Illustrated in the Mining and Scientific Press, April 9th, 864.]

HEPBURN & PETERSON.
nov8 3m*

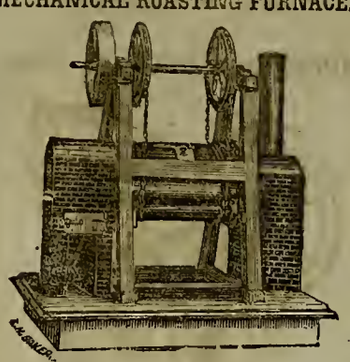
HUNT'S PATENT
Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,
7v10 28 Second street, San Francisco

The Mechanics' Institute
AWARDED A
PREMIUM SILVER MEDAL
TO BRUCKNER'S
MECHANICAL ROASTING FURNACE.



Parties wishing to erect such Furnaces, are requested to leave their orders with

T. KALLENBERG,
12v11 416 Market street, San Francisco.

HUNT'S
IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN
HORSE POWER
For Sawing Wood,
ALSO, THE
Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

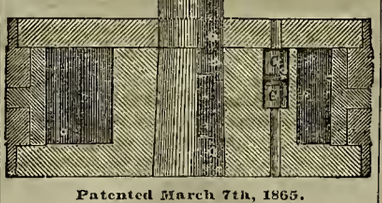
E. O. HUNT,
No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

DENIS WHELAN,
Fashionable Boot Maker

REPAIRING NEATLY DONE, AT SHORT NOTICE.

No. 17 Fourth Street,
Near Market street, San Francisco.
15v10-1m*

Stevens' Pressure Packing.



Patented March 7th, 1865.

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

STEVENS' PACKING has the advantage of being cheaper in first cost than the ordinary packing, and can be applied to old style pistons with very little alteration or detention. In place of testimonials, the Patentee requests of those who are using the old spring packing to inquire of the owners of the various engines which now have this packing in use—some of which have been running from three to twelve months without being opened, or showing any descriptive leak—and act upon their recommendation.

Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Alameda Railroad, or at the VULCAN IRON WORKS, where they can be seen, at any time, in course of construction.

10df **ANDREW STEVENS.**

SALMON'S
PROPELLOR AMALGAMATOR
— AND —
Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

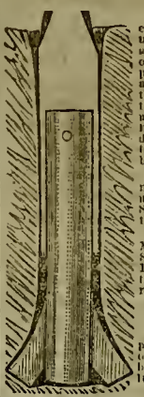
And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

9v11 **J. & W. C. SALMON.**

McCOMB'S
CUMULATIVE POWER PRESS
AND
ARROW TIE.

E. C McCOMB, Agent.
No. 1 Government House, cor. Sansome and Washington sts. 25v10 3m

STOW'S
PATENT CHAMBER DRILL.



The greatest Labor-saving Machine ever invented for Quartz Mining. By using this Drill in shafts, tunnels, and all other rock blasting, three-fourths of the labor and over one-half of the powder will be saved. The Drill makes a chamber directly at the bottom of the hole, at any depth you wish, six times the area of the original hole, in all kinds of rock, in less time than a man can drill a 2½ hole two inches deep. Requiring no tamping, it will be impossible to have a premature blast.

AT THE STATE FAIR held in Sacramento, September, 1865, a Committee, after examining both the Lincott's and Stow's Chamber Drills, reported as follows:

We, the undersigned, Committee on Mining Tools, do award to Henry M. Stow, of San Francisco, the FIRST PREMIUM for the best Chamber Drill for blasting rock, for the following reasons:

1st. For simplicity of construction.
2d. For durability of drill;
3d. For strength of drill.

The above Drills will be sent to any part of the State for $30, with one set of Cutters or Chisels that will chamber from 75 to 150 holes. Extra Chisels furnished at $2 50 per set.

The Drill may be seen at Mr. BUFFINGTON'S Office, No. 6 Government Block, corner Sansome and Washington streets, and at No. 511 Market street.

Drills will be delivered to any part of this State free of expense to the purchaser. Any information desired, or orders for Drills, address

STOW & COLLINS,
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Oil Wells! Oil Wells!!

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B. Fauchery and F. Genard

Having established a Quartz Mill and Metallurgical Works, are now prepared to crush, roast, amalgamate, assort, cupelate, and give correct analysis of ores. We are also prepared to give our attention to the building and constructing of Quartz Mills and Furnaces, and give directions for working Mines; and also to instruct persons in all branches appertaining to Mining Works, at No. 23 Fremont street, near Market, Railroad Foundry building.

F. GENARD, Metallurgist. **B. FAUCHERY,** Engineer,
24v9

QUERY—As to whether "Honest Miner" and "Cosmopolitan," correspondents of the *Bulletin*, ever meet in the street without recognizing each other?—*Call.*

If permitted, we would express the opinion that when either "Cosmopolitan" or "Honest Miner" looks into the glass, the one invariably sees the other, and *vice versa*. Somebody has been smart enough, the past week, to get three or four first rate advertisements out of the dailies, as cheap as the seats are offered to the "Honest Miner," or "any other man" in the 'Central Church," at "Congress Hall." Hope we don't intrude.

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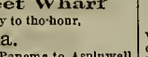

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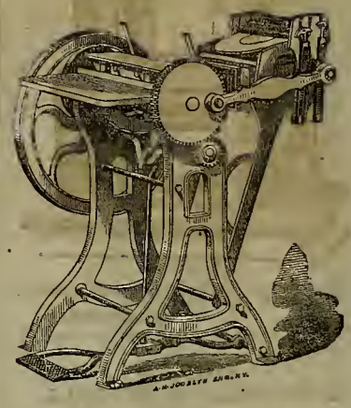

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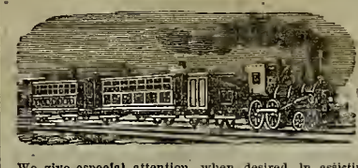

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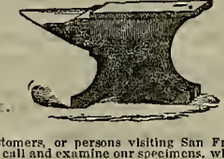

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A Journal of Useful Arts, Science, and Mining and Mechanical Progress.

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Editorial and Selected.
Mining Shareholders' Directory.
Stock Sales and Reports.
San Francisco Prices Current
New Mining and Other Advertisements, Etc.

PIKE'S "LITTLE GIANT" QUARTZ MILL.

We give annexed a finely executed illustration of Mr. S. B. Pike's improved "Little Giant" Quartz Mill, showing, in detail, all its parts and the mode of operating the machine. The particular end kept in view by the inventor, in devising this machine, was such a combination of working parts and power, as would secure a practical dry crusher, combining the grinding and pulverizing principle of the Chili mill without its slowness, with the striking effect of the stamps; the whole admitting of a free discharge without the possibility of packing; and all this with a perfect confinement of the dust usually so detrimental to machinery and injurious to health, where dry-crushing is employed.

DESCRIPTION OF ILLUSTRATION.

AA, represents the wooden frame or support of the machine. BB, a circular disk, having a recess for the reception of an annular ring, or die, C, made of white iron. D, an adjustable gutter. E, a scraper on C and fitting D.

FFFF, four flat faced rollers, resting on C. G, white iron ring on F. H, horizontal bar and hub, having a vertical motion in boxes KK. J, Spindle of F revolving in H. LL, adjustable guides suspended between rollers FF and near disk C. M, upright shaft, supporting BB. N, step. O, driving pulley. P, hopper. R, gear. S, pinion. T, cylindrical bolt. U, conveyor. V, crusher. WW, keys. X, binders for adjusting D.

On revolving the disk BB rapidly, which transmits motion to FFFF, the ore, which is fed on to the center of the plate B, is by its own inertia and the centrifugal force of the plate, thrown rapidly off of the plate B into the gutter D, passing in its course under the rollers F, either before or after it has received a change of direction from the guides LL, and so regular as to form no cushion between F and C. From the gutter D it is removed by the scraper E into the cylindrical bolt F, from whence that which will not pass the seive is returned to be re-ground by the conveyor U. The top and sides of the machine are inclosed inside of all journals and bearings.

The arrangement of the bracket H and boxes KK, admits of the rollers F keeping an even face and conforming to the surface of the plate BB and die C. The plate is intended to revolve some 42 revolutions per minute, which gives a crushing effect of over ONE TON on the face of each roller, or 100 *pounds per square inch*, allowing the impact to be on two inches of the circumference and across the whole face of the roller at once.

A stamp weighing 650 pounds, with 6 inches diameter of face, and falling one foot, has a striking effect of 46 pounds to the square inch, and this effect is usually greatly reduced by the cushioning or packing of the ore in the mortar, resulting from an imperfect discharge.

The proprietor of the "Little Giant" states in his circular that he is now prepared to build complete or furnish the iron work for these mills at short notice, and guarantee them to crush, without a crusher, 1,000 pounds per hour, from the size of an egg to dust that shall pass through a sieve of 5,000 meshes to the square inch, the power required being from five to eight horse. With a crusher in connection, as is represented in the cut, he claims that this mill will crush one ton per hour, having tested it practically on the hardest kind of quartz.

In offering this mill to the mining public, the inventor submits the following:

First.—It will do more work with the same amount of power than any other machine now in use for dry crushing and pulverizing.

Second.—Its weight being but some four tons and its largest piece not weighing over 1,000 pounds, allows of its being easily transported into the new and mountainous districts of the interior, at a small expense compared with the ponderous machinery now in use.

Third.—Its first cost enables prospectors and men of moderate means to have a mill of paying capacity without the expenditure of a fortune.

Fourth.—The white iron die on the plate and the rings on the rollers—the wearing parts of the machine—can be easily replaced at a trifling expense.

Fifth.—Its grinding parts are entirely inclosed, thus securing the dust and obviating the great objection to dry crushing.

Sixth.—Its journals are all remote, and protected from dust and grit, thereby preventing any cutting or heating of parts.

Seventh.—It is self-feeding and self-discharging, requiring but one attendant to feed the crusher.

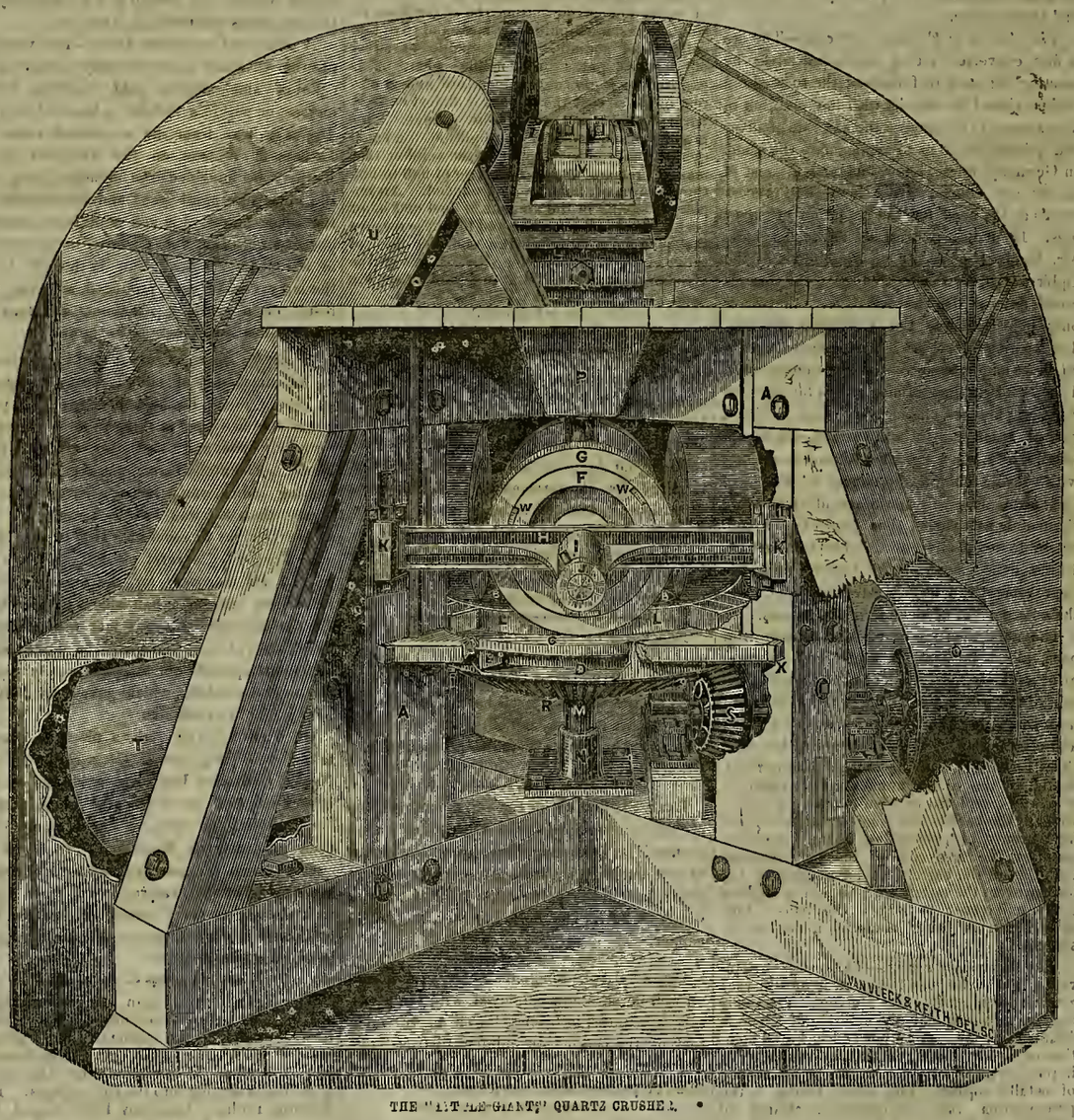
Eight.—It will reduce ore to any required degree of fineness, and can, at the option of the mill men, be made to grade its ore suitable for concentration.

Ninth.—By the use of a roller with a flat face, a slip on its inner edge is had, producing a grinding and fine pulverizing effect.

Tenth.—By its feeding and discharging itself rapidly by centrifugal force, all packing and cushioning of ore under the rollers, which is so detrimental to a rapid pulverization, is prevented.

Eleventh.—By the use of wings or guides between the rollers, all of the ore is passed under these before it can leave the plate.

Twelfth.—By revolving the bed on which the rollers rest, a centrifugal striking force is had on the face of each traveler, which increases in proportion to the square of the velocity attained, and consequently its grinding effects are increased in the same ratio.



THE "LITTLE GIANT" QUARTZ CRUSHER.

SHERMAN DAY, together with a number of assistants, is now engaged in surveying a canal for the Natoma Water and Mining Company, to convey the water from the American river to the town of Folsom, on a level with the town, for manufacturing purposes. This, says the *Telegraph*, is a step in the right direction, and will tend directly to make the water power here available, and make the town, as it should have been years ago, the great manufacturing center of the State.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

The Problem of Gold and Silver Extraction—A General Review—No. XIX.

BY PROF. L. LANSZWEERT.

The Hungarian Process.—Among the various processes for reduciog silver ores applicable to Washoe, we may mention the old Hungarian process. The ore is hoiled in iron pans, with salt, alnoi, nnd saltpetre, convertiog the eulphides into chlorides, the latter being reduced, hy the iron of the pan, to metallic silver. Quicksilver is theu added to amalgamate the réduced silver.

Partode's Process.—The ores are roasted with salt, and the chloride of silver is dissolved in ammonia, from which the silver is precipitated by sheet-iron. The ammonia is distilled and used again.

Gurl's Process.—The crushed ore is converted into a chloride, in barrels, containiog seven per cent. of chloride of copper and salt water. The chloride of silver thns formed is separated from the eolution, and the silver precipitated by copper. The solution of salt and chloride of copper can he nsed eeveral times. Poor ores can he extracted by this process where fuel is expensive.

The Barrel or *Freiberg Process.*—The ore is first converted into a chloride of silver hy roasting the same in furnaces; the roasted ore is then placed in harrels, with the addition of irou scraps, to decompose the chloride of silver and quicksilver, so as to amalgamate the same. In Germany, where labor, fuel, and interest of money are comparatively low, this process stands at the head for the reduction of silver oree. By one of its earliest advocates here, Mr. Guido Kustel, lnte superintendent of the Ophir works, it was decided that the harrels could not be dispensed with, and that their only objection was the expensive roasting. The roasting of ores is a difficult science, and, in all silver-miuing countriee, of great importance. There are two kinds of mechanical furnaces for roasting purposes, offering very economical and perfect roaeting. In both cnses steam is applied, which, when snperheated, and in contact with volatile chlorides, produces a change of their elements, giving muriatic acid, and leaving the metals as oxides; thus preventing n considerahle loss of silver and gold by volatization. Iu the employment of the barrels very little improvement can be suggested, unless it be in the enlargement of the size of the harrels.

The amalgamation of roasted ores in irou pans, aided by heat, is n decided improvement on the harrel system; as the action of the iron of the pan is equivalent to the addition of iron scraps to the roasted ores, nnd the filling and cleaning-up of the pans requires less time than the barrels, and the amalgamation itsell, heated hy the direct npplication of steiin, is generally completed in from four to six hours; while in the barrels the amalgamation requires from tweuty to twenty-four hours. Notwithstanding the first cost of the pans is larger than that of the harrels, the advantages of the former over the latter are sufficient to induce every mill-owner to adopt the pans. This snhstitution is heiog made in numerous instances.

The Augustin Process.—This process was invented ahout the year 1845, and is now in very geueral use in Saxony and Hungary. The ore is roasted with salt, nud the chloride of silver is dissolved by means of a hot concentrated solution of common salt; this solution is then put in proper vessels for precipitation by the ageucy of metallic copper. The silver falling in the precipitation tuhs is collected, cleared of particles of copper by hydrochloric acid, and the acid, after remaining on it some time, is washed off by pure water, when the silver is collected, placed in iron pans to dry, and finally cast in bars. (See, for a full description of this process, Mining and Scientific Press, April 9th, 1864.)

Ziervogel's Process.—This method was invented by Huttenmeister Ziervogel, of Heltstedt, near Eisleben, in Prussia. The same lode in which the father of Martin Luther wrought as a miner, fnrnished the ore for the earliest experiments in this process, and still furnishes the Gottesbelohnung furnace. The name of the inventor may not be unfamiliar to the ears of many of your readers, since he was for several years the director of a coal company upon the Lehigh, in Peonsylvania.

This system of extracting silver from its ores is hased upon the translormation of the sulphide of silver ioto the coodition of a sulphate. This ie done by roasting the sulphide with great care in a reverberatory furnace, and exposing it to the action of a draught of air from the surronndiog atmosphere. The roasted matte, after having cooled sufficiently, is subjected to lixiviation, when water, heated to 130° Fahrenheit, is allowed to penetrate the mass, and carries with it such soluhle salts as it may find present, among which the sulphate of silver is the most important. The silver-holding finid, after beiog strained through a filter, lalls into a vessel, where its earthy impuritiee are allowed to settle to the bottom. From thence the clear liquor is ron into a tnhe containing granulated eopper and blistered copper hars. Here, on account of the high electro-positive character of the copper, the silver is precipitated in the form of a fine crystalline powder, known as cement silver, which is collected, washed with water to carry off the sulphate of lime with which it is mixed, and with acid to clear it of particles of metallic copper. It is then fused in a peculiar reverberatory furnace, and produced at a fineness of 980 thousandths. (For further description of this process, see Mining and Scientific Press, April 23. 1864.)

Von Patera's Process, or Silver Extraction hy Hyposulphite of Soda.—This process consists essentially in the transformation of the silver of the ores into a chloride, by roasting with common salt, and a snbsequent dissolving out of the same with a solntion of hyposulphite of soda, and precipitating the silver from its solntion as a sulphide by means of five-fold sulphide of sodium. The sulphide of silver ohtained is put into a muffle, where it is exposed to a glowing temperature and a current of air, so that the sulphur is almost entirely burnt ont, leaving a metallic sponge. Ths product is smelted, with the addition of a small quantity of iron to carry away the snlphur that may yet remain, and thus a silver of 980 to 985 thousandths of fineness is produced. An important saving in the amount of fuel and lahor is secured by this process; and for these reasons the plan is worthy of the consideration of those engaged in reducing silver ores on the Pacific coast, where both fuel nnd lahor are dear.

[To be Continued.]

In Memoniam.—Many of the counties in the Eastern States are erecting monuments in memory of their soldier heroes who fell in the late war of rebellion. There are some who object to county memorials, holding that each town should do honor to its own gallant dead. Gratitude for the services of those who have died in this terrible struggle shonld be expressed without stint. A regard for the opinion of future generations demands that this should be done. What does California propose to do for *her* gallant dead?

Blockade of the Chilean Ports.—By the arrival of the British ship Gentoo we have confirmation of the reported blockade of the port of Valparaiso, that vessel having endeavored for two days to enter, and, after communicating with the shore, was ordered to proceed to San Francisco.

Lake Superior Copper—Six hnndred tons of rock were stamped at the Albany and Boston Stamp Mill, Lake Superior, during the month of September last. Taking the amouot of copper reported, the percentage yield of this ore would be 2.67. The yield, however, was native copper.

Oil at Lake Superior.—An experienced oil well borer is now employed, with the necessary apparatus, in boring lor oil in the sandrock of the Ontonagon mining district, Lake Superior. It is said there are strong indications of petroleum in that region.

Sugar Mill.—A man named Phillips, of Rice Creek, Butte county, says the Chico *Courant*, is an enterprising farmer, and owns the only sugar mill in that part of the State, manufacturing each year a large quantity of sorghum syrup, from cane of his own raising.

Rich Claim Lost.—Recently a company of Irishmen struck a rich claim in the bank of a creek near Lower Calaveras, in Calaveras county, from which they took quite an amount of gold. They went on a spree for several days, when some Italians jumped their claim and are now working it.

GOLD MINING IN AUSTRALIA.

The Miners Employed in 1865.—Dnring the year 1862 there were employed in the Australian gold fields an average number of 97,942 miners, the produce of whose lahor was 1,702,460 ounces, equal to $30,000,000. This makee the average weekly earnings of each miner within a fraction of $5. In 1863 the average number of miners employed was 92,292, who prodoced 1,578,079 ounces, equal to $29,405,422. During the year 1864 the average number of miners employed was 83,394, who obtaioed, as the result of their lahors, 1,557,397 ounces of gold. During the first half of the present year the number of men engaged was 85,022. They produced 756,435 ounces of gold. These results, it will he seeu, are quite uniform for the past three or four years.

The first six months of the pre ent year, more especially the latter half of that period, was a trying time for the miners. The long continued drought exercised a most prejndicial influence. At many of the newly opened fields, especially, numhers of men were idle from want of water, the working of the machines were suspended, and the yield of gold was very sensibly effected. Under these circumstaoces a very serioos deficiency was expected in the amount of gold produced doring the period referred to. That this has not been the case speaks well for the wealth and permnnency of the auriferous resources of Australia.

A Hundred weight of Gold.—The window of the Oriental Bank recently contained a cake of amalgamated gold, weighing 1,312 ounces, or within a trifle of a hundred weight. The cake was from the celebrated claim of Latham & Watson, on the Hnsller's Reef. As may he imagined, the monster cake was the "cynosure of all eyes," and the windows of the other banks, although containing many a goodly-sized cake, were deserted for inspection of the monster cake. This is thought to be the largest cake ever produced, and was the result of a crushing of about 300 tons of quartz—nearly 4½ ounces to the ton.

A Lucky Speculator.—A striking instance of the uncertainty of mining recently occurred at Whroo, in the Rushworth district. A poor miner, who had been working in alluvial ground for a long time, and was harely earning a livelihood, accidentally came on a reef with gold-bearing indications. He was so destitute of means that he was unable to raise £1 for a miner's right to secure his title to the claim, and he solicited several persons, to whom he related his discovery, for the money, at the same time offering a half share in the claim for the advance. He was met with a refusal by all except one, who gave the money as a hazardous speculation, but was amply repaid by the first crushing, which gave a dividend of nearly £500 to each man.

On Tuesday, July 17th, a piece of quartz, taken from Williams & Co.'s claim, on the North Catherine Reef, was exhibited at the branch office of the Bank of Victoria, Eaglehawk, which for richness has scarcely ever been exceeded on Bendigo. The block of quartz (which is about 1½ foot square) shows large lumps of gold, varying in size from a pea to a walout, on every portion of its face, the interior of the stone, probably, containing gold in as great proportions.

The Miners' Strikes in the Pennsylvania coal regions have assisted materially in adding to the profits of the owners of coal mines, besides creating an active speculative demand for coal companies' stocks, and for the shares of railroads leading into the coal regions. The Reading Railroad Company have reaped the richest harvest from this condition of affairs, having been enabled to realize an income of over a quarter of a million dollars per week from the coal tonnage alone.

Of course the miners of Pennsylvania "strike" with their picks. Such "strikes" are generally far more profitable to all parties than a "strike" without picks.

A Mr. Mitchell, an old prospector, is realizing $72 per ton, *with an arastra*, from stuff out of the Granite Mountain Lode, near Diamond City, Montana. Flour fetches $25 per hundred, at this mining camp or "city."

THE CALIFORNIA ACADEMY OF NATURAL SCIENCES.

We have received a copy of the proceedings of this society, from February to September of the present year, from which we make the following extracts:

NEW MINERAL OIL REGIONS IN THE TULARE VALLEY—BY WILLIAM P. BLAKE.

Recent examinations of prospecting parties, have added largely to the well-known oil-bearing portions of the State. A district some sixty miles in length, on the inner slopes of the Coast mountains, towards the Tulare Valley, has been found to abound in oil springs, or indications of oil. Oil exudes from the surface in large quantities, and collects rapidly in small pits sunk by prospectors. The soil about these pits is very black and saturated with oil. The gases escaping from this soil are inflammable, and many of the prospectors have been startled to see flames spreading over the ground, beyond their camp fires. In digging pits about these springs, large quantities of bones of various kinds have been thrown out, and all are wonderfully well preserved. These bones appear chiefly those of the horse, deer, and elk, though there are many others which I have not been able to recognize. The teeth of the horse, sent to me, are of unusual size, and induce the question, whether they are not of greater antiquity than the present race of horses. I am assured that the variety of bones and teeth of many kinds is very great.

The oil found gives an excellent article for lubricating purposes, and must be very similar to the oil found near Zanesville, Ohio, according to the descriptions given of the latter.

THE OCCURRENCE OF SPHENE IN THE GRANITE OF THE SIERRA NEVADA.

Sphene, in small hair-brown or amber-colored crystals, appears to be abundantly distributed in the granite of the Sierra Nevada. It may be found at the sources of the American river, in the exposures of granite about Slippery Ford, and other points, and upon the Mokelumne river, further south. The crystals are seldom more than the thirty-second part of an inch in diameter, and are not conspicuous, but may be found in almost any specimen of the rocks.

It appears that this mineral is also of common occurrence in the granite of the British Islands. In a report to the British Association (1863), upon the composition of the granite of Donegal, it is stated, that the rock contains, almost universally, small crystals of sphene, in some varieties so abundantly as to induce the authors of the Report to term it "sphene granite." It is also observed that this mineral has long been known to exist in the granite of parts of Scotland, and in that of Galway.

Sphene is described by Dana as a mineral composed of silicic acid, titanic acid, and lime. Its colors are dull yellow, green, gray, brown and black. It is found both amorphous and in crystals. Its formula is usually very nearly $35\ SiO_3$; $33\ TiO_2$; $33\ CaO$.

At the session of July 3d, some interesting remarks were made by Mr. Kennicott and Dr. Behr, upon the relation of the Esquimaux to the North American Indians. Dr. Behr said:

The Esqnimaux can only be considered as a kind of Indian race, their language being of the same structure, and their different habits were due to physical influences. He further stated that the Esquimaux formerly lived farther south. Mr. Kennicott remarked, that from his observations, and information derived from Madam Roshkin, and from Tsagashin's report, he believed the natives, for some hundreds of miles up the Kvichpak or Yonkon river, were Esquimaux rather than Indians.

At the session of September 4th, Professor Blake presented the following note—

ON THE ABUNDANCE OF IRON ORE IN NORTHERN ARIZONA.

In 1863 I observed an iron formation of considerable extent and interest upon and near the William's Fork of the Colorado, near its mouth. The ore is chiefly the micaceous variety of Hematite, or "specular iron," and occurs in thick beds and in thin sheets, in a ferruginous limestone or dolomite, evidently metamorphic, and tilted up at a high angle.

It forms a belt of peculiar appearance, that may be traced by the eye for miles across the country, in a direction a few degrees south of west. This rock and iron ore is inter-stratified with chloritic and talcose slates and granite, and the series also bears copper ores and gold.

From the collections made by Lieut. Whipple's party, in 1853, in the mountaine north, it would appear that similar rocks exist in the Cerbat and Aquarius Mountains, the extreme geological antiquity of which was commented on by me in the Pacific R. R. Reports, Vol. III, p. 59. It is possible that this ferriferous formation is connected with the extensive iron formation of the coast of Mexico, south of Acapulco, described by Mr. Manross, (Am. Journ. Sci., XXXIX, 358,) and it may be of pre-Silurian date.

Useful Information.

The Philosophy of Sleep.

NUMBER THREE.

INFLUENCES WHICH PROMOTE OR PREVENT SLEEP.

The best preparation for sleep is sixteen to eighteen hours of varied mental and bodily occupation, enough to tire, not to exhaust; the mind not having been over-excited, the body not over fatigued, and the spirits at the close equable, or if out of moderation, rather depressed than exhilarated.

It is told of Napoleon, that he could, at any time, compose himself to sleep at will. The fact seems wonderful, but, if true, it is no wonder. The mind and body, in such a case, constantly used to the utmost, would constantly be in need of repose. If we imagine, in such a case, a consciousness of talent equal to any emergency, combined with perfect physical and moral courage, and a clear view of all the contingencies of the hour, the question is not, what should enable, but what is to prevent, a soldier dropping asleep at the first convenient opportunity.

The mind has more to do with the prevention of sleep than the body. Different persons, however, take different views of what is mentally composing. Dr. Macnish observes, "a person would more readily fall asleep, listening to a profound piece of argumentation, than to a humorous and fanciful story; and probably more have slumbered over the pages of Bacon and Locke than over those of Shakespeare and Milton." I confess that I feel disposed to reverse the terms of the antithesis, being in the habit of taking refuge in a poem, or a novel, from the state of full mental waking which I find reflection produce.

Dugald Stewart remarks, "It is well known that there is a particular class of sounds which compose to sleep. The hum of bees, the murmur of a fountain, the reading of an uninteresting discourse, have this tendency in a remarkable degree. If we examine this class of sounds, we shall find that it consists wholly of such as are fitted to withdraw the attention of the mind from our own thoughts, and are at the same time not sufficiently interesting to engage its attention to themselves."

It is found that heat produces two contrary effects in respect to sleep; it disposes us to sleep in the day-time, but interrupts sleep at night. In the day-time it oppresses, relaxes, weakens; at night it stimulates. In hot weather, the entire quantity of sleep taken is less than in cold weather. On a change of weather in winter, one is sometimes kept awake, till he remembers that the clothes on his bed are too warm for the thaw which has succeeded.

COLD PROMOTES SLEEP.

In the winter we sleep more than in summer. This arises from two causes; our habits are of more active exertion in winter, which exhausts; and the cold itself, by requiring a larger supply of heat from us, likewise consumes our strength, not to mention the disinclination to leave the pleasant repose of our beds, during which sleep again overtakes us.

Nature, if I may be allowed the expression, has stepped out of her path to give this element of animal nature, namely, the relation of sleep to cold, development. Many animals hybernate, or fall into a winter sleep, during which they take no nutriment, but remain torpid, their breathing and circulation being extremely languid, and their nourishment turning upon the absorption of their summer fat. In these animals, the temperature falls during hybernation, to obviate the effect of which, they ensconce themselves under shelter, and many of them accumulate materials around them, to exclude the cold. It is singular that exposure to intense cold weakens a hybernating animal. For cold as a mortal agent, destroys by producing "sleep that knows no waking." The hybernating animal is first awakened by cold, then sinks under its influence into a new sleep, and dies.

DANGER OF SLEEP IN THE PRESENCE OF INTENSE COLD.

In Captain Cook's first voyage, the effects of cold inducing this sleep are strikingly instanced. The scene occurred in the island of Terra del-Fuego.—Dr. Solander, Mr. Banks, and several other gentlemen, had ascended the mountains of that cold region for the purpose of botanizing and exploring the country. "Dr. Solander, who had more than once crossed the mountains which divide Sweden from Norway, well knew that extreme cold, especially when joined with fatigue, produces a torpor and sleepiness that are almost irresistible. He, therefore, conjured the company to keep moving, whatever relief they might be promised by an inclination to rest. 'Whoever sits down,' said he, 'will sleep; and whoever sleeps, will wake no more.' Thus at once admonished and alarmed, they set forward; but while they were still upon the naked rock, and before they had got among the bushes, the cold became suddenly so intense, as to produce the effects that had been most dreaded. Dr. Solander himself was the first who felt the inclination, against which he had warned others, irresistible; and insisted upon being suffered to lie down. Mr. Banks entreated and remonstrated in vain; down he lay upon the ground, although he was covered with snow, and it was with great difficulty that his friend kept him from sleeping. Richmond, also, one of the black servants, began to finger, having suffered from the cold in the same manner as the doctor. Mr. Banks, therefore, sent five of the company, among whom was Mr. Buchan, forward, to get a fire ready at the first convenient place they could find; and himself, with four others, remained with the doctor and Richmond, whom, partly by persuasion and entreaty, and partly by force, they brought on; but when they had got through the greatest part of the birch and swamp, they both declared they could go no further. Mr. Banks again had resource to entreaty and expostulation, but they produced no effect. When Richmond was told that if he did not go on he would in a short time be frozen to death, he answered that he desired nothing but to lie down and die. The doctor did not so explicitly renounce his life; he said that he was willing to go on, but that he must first take some sleep, though he had before told the company to sleep was to perish. Mr. Banks and the rest found it impossible to carry them; and there being no remedy, they were both suffered to sit down, being partly supported by the bushes; and in a few minutes they fell into a profound sleep. Soon after, some of the people who had been sent forward, returned, with the welcome news that a fire was kindled about a quarter of a mile farther on the way. Mr. Banks then endeavored to awake Dr. Solander, and happily succeeded. But though he had not slept five minutes, he had almost lost the use of his limbs, and the muscles were so shrunk, that the shoes fell from his feet; he consented to go forward with such assistance as could be given him, but no attempts to relieve poor Richmond were successful."

[To be Continued.]

What is Saleratus.—Wood is burnt to ashes, are lixivated, ley is the result. Ley is evaporated by boiling, black salts is the residium. The salt undergoes purification by fire, and the potash of commerce is obtained. By another process, we change potash into pearlash. Now put these in sacks and place them over a distillery wash tub, where the fermentation evolves carbonic acid gas, and the pearlash absorbs it and is rendered solid; the product being heavier, whiter, and drier, than the pearlash. It is now saleratus. How much salts of ley and carbonic acid gas a human stomach can bear and remain healthy is a question for a saleratus eater. Some people say saleratus will not hurm the stomach. It is a *ley*.

M. Jeannel has discovered a new way of easily ascertaining whether there exists any lead in the tin used for tinning culinary vessels in hospitals. His method consists in this:—Take about five decigrams of scrapings of the metal to be tested, and boil it in an excess of nitric acid diluted with one-third of its weight of water. When the solution is complete, filter and then put in a crystal of iodide of potassium. If the liquid contains but a ten-thousandth part of lead, a yellow precipitate will be formed, which will not disappear by the addition of an excess of ammonia.

A Tremendous Idea.—A member of the Academie des Sciences of Paris, who is also an eminent chemist, has invented an apparatus which he thinks will enable human beings to breathe as freely at the bottom of the sea as on the surface of the earth. He proposes to form an association for collecting all the treasures now lying at the bottom of the ocean, and estimates at about £800,000,000 sterling the harvest of treasure to be gleaned on the route between England and India only.

Worthy Sons of a Worthy Sire.—It is related, as a pleasing instance of the transmission of noble qualities from father to son that the two younger sons of the late Horace Mann, upon the loss by their brother of his property in the Concord Bank through the recent robbery, at once informed him "that one-third of their joint bequest should be his."

It is said that when a Frenchman has to wait, he smokes; a German meditates; an Italian sleeps; an Englishman walks; but an American swears, invents some contortion of the limbs, and tries to put his feet up higher than ever.

The Circulation of Sap in Trees, and the Formation of Wood.

Trees are made up of fine tubes which extend from the root to the leaf, and it is through these tubes that the circulation of the sap is carried on. If a growing tree is pulled up by the roots, and the roots are placed in a vessel of water containing some colored solution which they will absorb, we can trace the course of this colored solution through the tree by cutting notches into it at successive periods. The coloring matter is always found first in the body of the wood near the root, then in the wood higher up, and so on until it reaches the leaf; then it begins to appear in the inner bark near the leaf, and it passes down through the bark again to the root. This observation shows that the circulation of the sap is up through the wood, and down through the bark.

There has been much speculation in relation to the force that causes the sap of plants to circulate, but it has never been settled by observation and experiment. It is pretty well established that sap circulates in the winter, though less rapidly than in the summer, and less rapidly at that time in deciduous than in evergreen trees.

The solid portions of thoroughly dried wood, and other parts of plants, are composed mainly of water and charcoal. When charcoal is burned, a small portion of ash is left. This ash is the mineral or inorganic portion of the substance of the tree, and consists principally of potash, lime, and flint, or silex. That portion which burns is carbon. In burning, the carbon unites with oxygen, to form carbonic acid, an invisible gas that floats away in the atmosphere.

The water and the inorganic matters enter the tree through the roots; the carbon enters mostly through the leaves. Carbon forms about one-half of the solid substance of the tree, and water the other half.

Water is composed of two elements, oxygen and hydrogen, in the proportion of eight pounds of oxygen to one of hydrogen. These in entering into a chemical combination with carbon, lose the liquid state of water, and form the various solid substances which make up the body of the tree.

In its course the sap undergoes important transformations. The trunks and leaves of trees are scenes of constant chemical operations, many of them more mysterious than any of the operations of the laboratory. One of these is the decomposition of carbonic acid in the leaf. The affinity of carbon and oxygen is very strong indeed, and there are few forces in Nature that can rend these two elements asunder; but the combined action of light and vegetable life is separating them throughout every day in the leaves of all growing plants. Carbonic acid is absorbed from the atmosphere by the leaf, its two elements are torn apart, the oxygen is returned to the air, and the carbon combining chemically with other elements in the sap, is carried to the places where new wood is being formed, and is there deposited in its proper place to help build up the structure of the tree. The symmetrical order in which the carbon is deposited in a tree may be seen by looking at a piece of charcoal.

If wood is examined under a powerful microscope, it is found that the tubes through which the sap circulates are formed of minute sacs or cells. The substance of which the walls of these cells are formed is called cellulose. It has been the subject of a great deal of chemical research, and is found to consist of carbon and water, or more strictly, of carbon and the elements of water, oxygen, and hydrogen. Cotton and linen are almost pure cellulose. Each atom of cellulose contains twelve atoms of carbon, ten atoms of hydrogen, and ten of oxygen, $C_{12}\ H_{10}\ O_{10}$. Starch, gum and sugar all have the same composition, $C_{12}\ H_{10}\ O_{10}$. This is one of the wonders of chemistry, that substances composed of the same elements, combined in the same proportion, should have properties so different as gum, starch, sugar, and cotton or linen fibre. Their different properties must of course result from the varied modes in which the atoms are arranged.

Besides these four substances there is one other constituting a considerable portion of the body of trees, which is also formed of the same elements as the others, but in slightly different proportions. This is lignin. It is an incrustation on the inner surfaces of the cell walls, and its office appears to be to strengthen and stiffen these walls. Its constitution is $C_{12}\ H_8\ O_8$. In this case, as in the others, there are just as many atoms of hydrogen as of oxygen; these two elements enter into the compound in the same proportion to each other as that in which they unite to form water. If a tree or other plant is thoroughly dried so as to expel all of its uncombined water, nine-tenths of the remaining substance consists of the two compounds, cellulose, lignin, starch, gum, and sugar, and all of these are composed of hydrogen and oxygen in the same relative proportion as that in which they exist in water, chemically combined with carbon.

Why it is that the atoms of these substances are so arranged in one part of the plant to form cellulose, and in another to form starch; why it is that they are so arranged in one tree as to form gum, and in another to form sugar, are mysteries which lie beyond the present boundaries of human knowledge.

There is one other organic element, and several inorganic, besides those mentioned, which enter, though in small quantities, into the constitution of plants, but a full discussion of the part which they perform in vegetable economy would demand an exhaustive treatise on agricultural chemistry and vegetable physiology.

The Cannon Fever.

The celebrated German poet Goethe was present as a spectator at the battle of Valmy, in 1792, between the armies of the French Republic, under Dumourier and Kellerman, and the allied armies under the Duke of Brunswick, and gives his first impressions of an artillery battle as follows:

"I had heard so much of the "cannon fever," that I wanted to know what kind of a thing it was. Ennui, and a spirit which every kind of danger excites to daring—nay, even to rashness, induced me to ride up quite coolly to the out-work of La Lune. This was again occupied by our people, but it presented the wildest aspect. The roofs were shot to pieces, the corn shocks scattered about, the bodies of men, mortally wounded, stretched upon them here and there, and occasionally a spent cannon ball fell and rattled among the tiled roofs. Quite alone, and left to myself, I rode away to the heights on the left, and could plainly survey the favorable position of the French. They were standing in the form of a semi-circle, in the greatest quiet and security—Kellerman, then on the left wing, being the easiest to reach.

I fell in with good company on the way—officers of my acquaintance belonging to the general staff and the regiment, who were greatly surprised to find me here. They wanted to take me up again with them, but I spoke to them of particular objects I had in view, and they left me without further discussion to my well known singular caprice. I had now arrived quite in the region where the balls were playing across me; the sound of them is curious enough, as if it were composed of the humming of tops, the gargling of water, and the whistling of birds. They were less dangerous by reason of the wetness of the ground—whenever one fell it stuck fast—and thus my foolish experimental ride was secured against the danger at least of the balls rebounding. In the midst of these circumstances, I was soon able to remark that something unusual was taking place within me. I paid close attention to it, and still the sensation can only be described by similitude. It appeared as if you were in some extremely hot place, and at the time quite penetrated by the heat of it, so that you feel yourself, as it were, quite one with the element in which you are. The eyes lose nothing of their strength or clearness, but it is as if the world had a kind of brown-red tint, which makes the situation as well as the surrounding objects more impressive.

I was unable to perceive any agitation of the blood; but everything seemed rather to be swallowed up in the glow of which I speak. From this, then, it is clear in what sense this condition can be called a fever. It is remarkable, however, that the horrible, uneasy feeling arising from it is produced in us sorely through the ears; for the cannon thunder, the howling and crashing of balls through the air, is the real cause of these sensations. After I had ridden back, and was in perfect security, I remarked with surprise that the glow was completely extinguished, and not the slightest feverish agitation was left behind. On the whole, the condition is one of the least enviable; as, indeed, among my dear and noble comrades, I found scarcely one who expressed a really passionate desire to try it.

The Unbroken Mines.—The Nevada *Transcript* says: Eastern people who form their ideas of our mines from the San Francisco quotations, would conclude that the mines of the entire coast were giving out; but in reality quartz mining is just taking a new start, and the prospects are more flattering now than they have been for many years. Few of the paying quartz mines, however, are incorporated, consequently they are not heard of at the Stock Board.

Quartz Mills in the Boise Basin.—The Chickahominy mill at Idaho City, is about ready to commence crushing ore. There are two mills at the head of Grimes' Creek at work, which run fifteen stamps. There is one mill of five stamps on the Elkhorn Lode; two on the Illinois, twenty stamps; one on the Landon, five stamps. The quartz prospects of the basin are very encouraging, says the Dalles *Mountaineer*.

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, December 2d, 1865.

The money market presents no new feature. A fair degree of activity prevails, and the current rate in bank is 1¼@1½ ₱ cent. per month, with occasional transactions upon more favorable terms to the borrower. Negotiations of the latter character are, however, in most instances made by the different Insurance companies and Savings Fund societies. In the open market 1½@2½ ₱ cent. per month is still paid.

Receipts of treasure from domestic sources, since our last reference, amounted to some $950,000, making an aggregate of $4,350,000 during the month of November.

Bullion was in fair request early in the week, and gold bars were sold at 850, but since the sailing of the Panama steamer the prevailing rate has been 830@840. Silver is a shade higher, and bars of average fineness command ½ ₱ cent premium.

Article 35 of the By-Laws of the Stock and Exchange Board has been amended as follows:

Penalty for doing Business for less than the Regular Commission.

"The Commission for purchase and sale of stock shall be as named in the Constitution, and any member violating this rule shall, on due conviction, be EXPELLED from the Board.

"All excise taxes upon the sale of stocks shall be paid by the Broker.

"It is hereby fully and distinctly understood, that the commissions hereafter to be charged, shall be upon all purchases and upon all sales; and that the full amount shall be charged, and no less sum received, except the principal or customer be a legitimate stock broker, not residing in this State."

Dullness and depression have been characteristic features of the Share Market this week, and transactions at the Board were of less importance than for some time past. There is little or no improvement to note, and some stocks are even lower than at the close of last week. Nevada advices are devoid of special interest, but so far as we can learn the work of development is progressing with unusual vigor, and a large amount of ore will be extracted the current month.

City Stocks, for the most part, are well maintained. Spring Valley Water was sold at $55½, and closes at $55½ asked. This company have been employing, for some time past, some 300 laborers upon their new dam at Pillarcitos Creek, and the entire work is to be completed in about ten days. The aggregate earnings of the company have exceeded $80,000 during the past 60 days, and the usual dividend will be paid on the 10th inst. North Beach and Mission R. R. was sold at $44, and Fireman's Fund Insurance Co. at $130. California Steam Navigation fell from $69 to $60, seller 60, then sold at 63, and closed at 64 asked.

Gould & Curry is in rather better favor, and small sales were made within a range of $950, seller 30, and $1,000, buyer $30. Explorations in the lower portion of the mine continue to be prosecuted with vigor, and the upper works have disclosed recently larger bodies of ore than were thought to exist there. The financial affairs of the company are slowly but steadily improving, and the yield of bullion last month amounted to $185,000.

Alpha rose from $860 to $900, buyer 30, dropped to $825, rallied to $850, steadily declined to $660, then sold at $750@$720, and closed yesterday at $740. At these rates some 70 feet were sold. The appearance of the lower level is said to be less flattering than was anticipated.

Savage steadily declined from $735 to $660, and sold yesterday at $670. The Minnesota and other mills are now reducing some 150 tons of ore per day, averaging $40 per ton. It is proper to state that the exhibit made last week of the financial condition of this company, embraced the pay roll of the past month, and all other liabilities due in Nevada and elsewhere.

Yellow Jacket was dealt in to the extent of 130 feet, steadily declining from $625 to $540, and selling at the first Board yesterday at $525. We are not in receipt of the usual returns from this mine for the past two weeks, but learn that in the north end of the lower level a body of ore some 25 feet wide has been disclosed, and in the southwest drift, same level, a deposit of ore 15 feet wide has been met with. The Morgan mill is now reducing 85@90 tons of ore per day.

Crown Point fell from $775 to $675, and sold yesterday morning at $700. During the week ending November 25th, 275 tons of ore were extracted, and a reserve of some 500 tons are now on hand. The drift on the lower level 120 feet from the shaft, has passed through a lode of quartz containing some good ore, and the middle and west strata will be reached as soon as practicable. The north incline from the 230-feet level is now down 63 feet in good ore, and is said to look better than ever. The south drift is down 69 feet, in fair ore at the bottom, and the incline on the east stratum also shows some improvement.

Belcher was dealt in within a range of $260 and $340, closing at $265.

Ophir was dealt in at $385@$365, and sold yesterday morning at $365. Receipts of bullion during the month of November, amounted to $55,000. We are informed that in the 4th gallery of the south mine, near the line of the Central, a considerable body of ore has been found in virgin ground.

Chollar-Potosi has been very active, and some 470 feet were sold, receding from $287½ to $252, rallying to $265, and closing at the first Board yesterday at $250. During the week ending November 24th, 352 tons of ore were sent to custom mills, and some 800 tons sold at $10, $8, $6 and $5 per ton. From the Grass Roots station 30 tons per day are now taken, and enough is said to be in sight to keep up this supply for some time to come. The Grass Valley station (Chollar mine) is looking well and turning out considerable ore. Ore has also been found between that station and the second level of the Chollar. From the 3d and 4th levels of the latter about 20 tons are now taken daily.

Hale & Norcross was sold at $205@$200, and closed at $150 bid. Empire Mill fell from $175 to $165, and is now held at $170. From the new development in the upper works some 50 tons of fair ore is now taken daily.

Imperial fell from $129 to $116, rallied to $128, fell to $116, seller 30, rose to $122, and sold yesterday morning at $120@$122—some 1,700 shares in all changing hands. The third clean-up is said to be unfavorable, and the aggregate receipts for the past month will, probably, not be up to the average of the past few months.

Bullion has been sold within a range of $40@$33, closing at $35. Overman fell from $45 to $39, rallied to $43, and sold yesterday morning at $43. Sierra Nevada was dealt in at $5@$7, closing at $6.

The aggregate sales of Stocks, since Saturday last inclusive, amounted to $717,506.

Fluctuations in Leading Mining Shares for the past Six Months.

Name of Company.	June 1st.	June 10th.	June 20th.	July 1st.	July 10th.	July 20th.	July 30th.	August 10th.	August 20th.	Sept. 1st.	Sept. 10th.	Sept. 20th.	Oct. 1st.	Oct. 10th.	Oct. 20th	Nov. 1st.	Nov. 10th.	Nov. 20th.
Gould & Curry.....per ft.	1,525	1,625	1,615	1,750	1,750	1,730	1,500	1,500	1,475	1,135	1,300	1,240	1,250	1,000	1,015	1,010	1,100	875
Ophir.....	485	480	501	495	485	530	425	400	391	280	365	415	340	515	380	425	392	340
Savage.....	1,190	1,150	1,425	1,375	1,400	1,310	1,175	1,220	1,300	1,300	1,225	1,215	1,225	1,075	930	800	765	625
Potosi.....	293	312	467	332	350	395	480	465	460	440	420	410	472	455	355	350	308	270
Chollar.....	215	317	473	345	370	410	500	490	500	475	455	420	500	480	370	375	3 8	270
Hale & Norcross.....	440	400	650	560	555	570	525	520	510	480	520	550	750	475	325	305	205	155
Sheba.....	15	15	15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Caney.....	15	15	15	14	....	14	....	90	70	43	40	40	35	30	15	10	15	8
Wide West.....	5	4	3	7	8	6	....	....	....	....	....	....	6	....	....	....	....	....
Burning Moscow.....	40	46	57	34	29	25	29	25	34	23	20	5	....	....	....	....	....	....
Pride of the West.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bullion.....	135	130	165	140	175	180	175	167	175	160	....	125	126	125	70	62	57	38
Real del Monte.....	12	10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
El Dorado.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Overman.....	115	100	120	180	342	305	200	241	213	190	135	170	176	150	100	95	62	42
Sierra Nevada.....	13	12	14	15	10	14	25	20	18	19	22	21	17	22	12	10	12	8
Yellow Jacket.....	1,400	1,320	1,150	1,090	1,015	1,105	1,220	1,350	1,355	1,420	1,460	1,405	1,345	1,110	720	780	670	620
White & Murphy.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sides.....	....	....	....	....	75	60	....	....	....	....	....	....	....	....	....	....	....	....
Uncle Sam.....	215	100	155	185	345	307	190	240	215	193	185	....	....	....	....	....	....	....
Battle.....	....	....	....	....	20	16	....	....	....	....	....	....	....	....	....	....	....	....
North American.....	30	28	25	23	35	42	35	30	25	21	16	....	....	....	....	....	....	....
Baltimore American.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Melones.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Antelope.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Napoleon.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sacramento.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Utah.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lady Bryan.....	....	....	....	....	6	6	....	6	3	....	....	....	....	....	....	....	....	....
Imperial.....	139	175	217	238	245	213	227	230	255	252	250	221	232	210	174	183	157	150
Crown Point.....	725	730	750	765	800	910	905	980	1,250	1,120	1,115	1,150	1,130	1,025	750	760	720	830
Belcher.....	625	620	695	780	775	850	805	860	865	875	900	910	875	640	400	385	400	300
Alpha.....	....	....	....	1,450	1,400	1,470	....	1,425	1,500	1,925	1,950	2,100	2,200	1,700	1,000	1,010	790	930

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, November 25.

41 shs Chollar-Potosi at 285@287½ per foot.
2 shs Chollar-Potosi at 287½ per foot, b 3.
5 shs Chollar-Potosi at 285 per foot, s 3.
5 shs Chollar-Potosi at 290 per foot, b 10.
20 shs Alpha at 860@870 per foot.
4 shs Alpha, G. H., at 900 per foot, b 30.
4 shs Alpha, G. H, at 900 per foot, b 10.
12 shs Yellow Jacket at 625@607½ per foot.
1 sh Yellow Jacket at 625 per foot, s 3.
2 shs Yellow Jacket at 620 per foot, b 10.
1 sh Yellow Jacket at 620 per foot, b 5.
32 shs Crown Point at 775@740 per foot.
3 shs Savage at 745@750 per foot.
1 sh Savage at 770 per foot, b 30.
120 shs Ophir at 390@385 per foot.
96 shs Ophir at 400@375 per foot, b 30.
12 shs Ophir at 380 per foot, s 10.
3 shs Belcher at 310 per foot.
3 shs Belcher at 300 per foot, s 30.
10 shs Hale & Norcross at 202½ per foot.
126 shs Imperial at 125@128 per share.
10 shs Imperial at 129 per share, b 4.
70 shs Imperial at 125 per share, s 3.
5 shs Imperial at 126 per share, b 3.
65 shs Imperial at 122½@118¾ per sh, s 30.
5 shs Imperial at 124¾ per share, s 5.
10 shs Imperial at 127@127¾ per share, b 30.
100 shs Exchequer at 14@15 per share.
2 shs Overman at 45 per share.
11 shs Overman at 39 per foot, s 60.
10 shs Bullion at 40 per share, s 10.
15 shs Bullion, at 40 per share, s 3.
21 shs Empire M & M Co. at 172½@175.
5 shs Empire M & M Co, 172½ per sh, s 3.
50 shs Sierra Nevada at 6¼ per share.
30 shs Sierra Nevada at 6¼ per share, s 10.
10 shs N B & Mission R R Co, at 45 per sh.
1 sh Cal Steam Nav Co at 69 per cent.
Amount of sales.....$ 92,360 00

Monday, November 27.

1 sh Savage at 735 per foot, cash.
1 sh Savage at 740 per foot.
5 shs Chollar-Potosi at 275 per foot.
3 shs Chollar-Potosi at 270 per foot.
2 shs Chollar-Potosi at 275 per foot, b 10.
6 shs Chollar-Potosi at 272 per foot.
5 shs Chollar-Potosi at 272½ per foot.
4 shs Hale & Norcross at 205½ per foot.
8 shs Alpha, G. H., at 900 per foot, s 11.
12 shs Alpha, G. H., at 825 per foot, s 30.
18 shs Yellow Jacket at 600 per foot, b 30.
1 sh Yellow Jacket at 595 per foot.
2 shs Yellow Jacket at 590 per foot, cash.
1 sh Yellow Jacket at 590 per foot.
21 shs Belcher at 310 per foot.
3 shs Belcher at 310 per foot, b 10.
6 shs Belcher at 305 per foot.
24 shs Ophir at 380 per share.
12 shs Ophir at 392½ per share, b 30.
8 shs Crown Point at 715 per foot, s 30.
4 shs Crown Point at 740 per foot, cash.
4 shs Crown Point at 735 per foot, cash.
13 shs Overman at 41 per foot, cash.
30 shs Overman at 40 per foot.
3 shs Overman at 37½ per foot.
10 shs Overman at 25 per foot, s 90.
5 shs Overman at 39 per foot, cash.
10 shs Imperial at 122 per share, b 10.
10 shs Imperial at 122 per share, b 15.
6 shs Imperial at 121 per share, b 15.
10 shs Imperial at 120 per share, s 15.
5 shs Imperial at 118 per share, s 10.
6 shs Imperial at 116 per share.
5 shs Imperial at 116 per share, s 10.
5 shs Imperial at 117 per share.
10 shs Imperial at 120 per share, b 20.
3 shs Imperial at 119 per share.
11 shs Imperial at 120 per share.
25 shs Imperial at 121 per share.
20 shs Imperial at 120 per share, s 5.
10 shs Imperial at 120½ per share, s 5.
10 shs Empire M & M Co. at 172½ p. sh, s 3.
7 shs Empire M & M Co. at 172¾ per share.
1 sh Empire M & M Co at 171 per share.
10 shs Bullion at 32½ per share.
20 shs Bullion at 32½ per share, s 3.
10 shs Bullion at 33 per share.
45 shs Sierra Nevada at 6 per share.
2 shs Cal Steam Nav Co at 68 per ct, s 3.
2 shs Cal Steam Nav Co at 67½ per cent.
$ 2,500 Legal Tender Notes at 67¾ per cent.

AFTERNOON SESSION.

10 shs Alpha, G H, at 830@850 per foot.
4 shs Alpha, G. H., at 835 per foot.
4 shs Alpha, G. H., at 830 per ft, b 2.
4 shs Alpha G, H., at 830 per foot, s 3.
2 shs Savage at 740 per foot.
2 shs Yellow Jacket at 580 per share, s 15.
8 shs Yellow Jacket at 580 per foot. s 30.
7 shs Yellow Jacket at 600 per foot, b 30.
2 shs Yellow Jacket at 590 per share.
2 shs Yellow Jacket at 575 per foot, s 30.
1 sh Yellow Jacket at 577½ per foot, s 30.
1 shs Yellow Jacket at 580 per foot.
1 sh Yellow Jacket at 582½ per foot, s 3.
2 shs Yellow Jacket at 582½ per foot.
1 sh Yellow Jacket at 580 per foot, s 10.
1 sh Belcher at 325 per foot.
1 shs Ophir at 382½ per foot.
10 shs Sierra Nevada at 6 per share.
3 shs Sierra Nevada at 5 per share.
20 shs Sierra Nevada at 6¼ per share.
10 shs Imperial at 122 per share.
5 shs Imperial at 121½ per share, s 3.
5 shs Imperial at 123 per share.
15 shs Imperial at 125 per share.
14 shs Empire M. & M. Co. at 171 per share.
2 shs Empire M & M Co. at 169 per sh, s 3.
80 shs Empire M. & M. Co. at 169 per sh, s 30
25 shs Empire M & M Co. at 170 per share.
5 shs Empire M & M Co. at 170 per sh, b 10
5 shs Overman at 41 per foot, b 30.
10 shs Bullion at 37 per share, b 10.
10 shs Bullion at 36 per share.
1 sh Cal Steam Nav Co at 66 per cent.
Amount of sales.....$128,364 00

Tuesday, November 28.

5 shs Yellow Jacket at 590 per foot, b 5.
3 shs Yellow Jacket at 585 per foot.
1 sh Yellow Jacket at 580 per foot, b 6.
2 shs Yellow Jacket at 575 per share, s 30.
1 sh Yellow Jacket at 580 per foot, b 3.
1 sh Savage at 730 per foot, b 10.
1 sh Savage at 720 per foot.
1 sh Savage at 715 per foot.
2 shs Chollar-Potosi at 265 per foot, s 10.
1 shs Chollar-Potosi at 260½ per foot, cash.
6 shs Chollar-Potosi at 260¼ per foot, s 3.
5 shs Chollar-Potosi at 255½ per foot, s 3.
5 shs Chollar-Potosi at 255 per foot, cash.
17 shs Chollar-Potosi at at 255 per foot.
3 shs Belchor at 340 per foot.
3 shs Belcher at 330 per foot, s 3.
6 shs Hale & Norcross at 210 per foot, s 3
4 shs Crown Point at 715 per foot, s 30.
4 shs Alpha, G H, at 820 per foot.
4 shs Alpha, G. H., at 820 per foot, s 30.
4 shs Alpha, G. H. at 835 per foot, b 3.
35 shs Imperial at 128 per share, cash.
15 shs Imperial at 128 per share, b 3,
10 shs Imperial at 126 per share, s 3.
5 shs Imperial at 124 per share, b 10.
5 shs Imperial at 127 per share, b 10.
6 shs Imperial at 124 per share, s 30.
27 shs Imperial at 127 per share.
5 shs Imperial at 127 per share, cash.
5 shs Imperial at 127 per share, s 3.
6 shs Imperial at 128¼ per share, b 3.
30 shs Imperial at 127 per share, s 10.
30 shs Imperial at 128 per share, s 10.
13 shs Imperial at 129 per share.
15 shs Imperial at 129 per share, cash.
15 shs Imperial at 129 per share, b 3.
30 shs Imperial at 129@128½ per sh, cash.
15 shs Imperial at 129 per share, b 3.
10 shs Imperial at 127¼ per share, b 15.
10 shs Imperial at 127 per share, s 10.
50 shs Sierra Nevada at 7 per share, s 10.
33 shs Sierra Nevada at 7 per share, b 30.
2 shs Bullion at 37 per share.
3 shs Bullion at 35 per share.
5 shs Bullion at 35 per share, s 10.
6 shs Bullion at 36 per share, b 10.
13 shs Overman at 42¼ per foot.
10 shs Overman at 42¼ per share, b 3.
20 shs Empire M & M Co. at 165 per sh, b 30.
5 shs Cal Steam Nav Co at 65 per cent.
1 sh Cal. Steam Nav. Co. at 64¾ per ct.
5 shs Cal. Steam Nav. Co. at 60 p ct., s 60.

AFTERNOON SESSION.

4 shs Alpha, G H, at 820 per foot.
4 shs Alpha, G. H., at 815 per foot, s 3.
4 shs Alpha, G. H., at 800 per foot, s 30.
1 sh Chollar-Potosi at 252½ per foot.
5 shs Chollar-Potosi at 264 per foot, b 6.
10 shs Chollar-Potosi at 255 per foot.
2 shs Chollar-Potosi at 254 per foot.
12 shs Chollar-Potosi at 253 per foot, s 10.
4 shs Crown Point at 725 per foot.
3 shs Yellow Jacket at 580 per foot.
2 shs Yellow Jacket at 565 per foot, b 30.
2 shs Yellow Jacket at 575 per foot, s 30.
3 shs Belcher at 370 per foot.
4 shs Hale & Norcross at 200 per foot.
1 sh Savage at 725 per foot, b 30.
2 shs Savage at 705 per foot.
2 shs Savage at 700 per foot, s 10.
1 sh Savage at 705 per foot, s 3.
2 shs Savage at 700 per foot.
5 shs Imperial at 125 per share, s 30.
10 shs Imperial at 128 per share.
10 shs Imperial at 127½ per share, s 10.
25 shs Imperial at 126½ per share, s 3.
5 shs Imperial at 125¾ per share.
15 shs Imperial at 126 per share.
55 shs Imperial at 125 per share, s 3.
5 shs Imperial at 124 per share, s 3.
30 shs Imperial at 125 per share.
10 shs Imperial at 120 per share s 30.
45 shs Bullion at 35 per share.
10 shs Bullion at 36 per share, b 10.
10 shs Bullion at 35½ per share, b 10.
11 shs Confidence at 50 per share.
4 shs Empire M & M Co. at 165 per share.
1 sh Empire Mill & M. Co. at 166 per sh.
10 shs Overman at 40 per foot.
10 shs Overman at 42¾ per foot, b 30.
25 shs Overman at 42¾ per foot.

45 shs Sierra Nevada at 6¾ per share
60 shs Fireman's Fund at 130 per share.
Amount of sales.....$148,632 00

Wednesday, November 29.

12 shs Ophir at 395 per foot, b 60.
4 shs Gould & Curry at 925 per foot, s 30.
8 shs Gould & Curry at 950 per foot, s 30.
15 shs Chollar-Potosi at 250 per foot.
7 shs Chollar-Potosi at 2.75 per foot.
7 shs Chollar-Potosi at 2.75 per foot, b 10.
6 shs Alpha, G. H., at 80@760 per ft, s 30.
8 shs Alpha at 770 per share.
8 shs Alpha, G. H., at 750 per foot, b 30
12 shs Alpha, G. H., at 750@755 per foot.
8 shs Alpha, G. H., at 740@750 per foot.
12 shs Alpha, G. H., at 750 per foot, s 30.
9 shs Belcher at 325 per foot.
1 sh Yellow Jacket at 585 per foot, cash.
1 sh Yellow Jacket at 580 per foot, s 30.
8 shs Crown Point at 700 per foot, s 30.
20 shs Willie & Murphy at 1 per foot.
5 shs Overman at 42½ per foot, cash.
5 shs Overman at 43 per foot, s 5
10 shs Overman at 43¼ per foot, s 5.
13 shs Overman at 43 per foot.
20 shs Imperial at 121 per share.
10 shs Imperial at 119 per share.
3 shs Imperial at 118¾ per share.
25 shs Imperial at 118 per share, cash.
5 shs Imperial at 124 per share, b 5.
10 shs Imperial at 117 per share, s 30.
10 shs Imperial at 118 per share, s 30
6 shs Imperial at 121 per share, s 10.
5 shs Imperial at 120 per share, s 3
8 shs Imperial at 121½ per share, cash.
20 shs Imperial at 122 per share
20 shs Imperial at 121 per share, s 3.
10 shs Imperial at 121½ per share, cash.
40 shs Imperial at 120½@121¾ per share.
20 shs Imperial at 120 per share, s 3.
20 shs Imperial at 118 per share, s 31.
5 shs Imperial at 123 per share, b 30.
15 shs Imperial at 124½ per share, s 3.
20 shs Imperial at 120 per share, s 10.
10 shs Exchequer at 12 per share.
10 shs Exchequer at 43 per share, b 10.
2 shs Bullion at 40 per share.
5 shs Bullion at 39 per share.
10 shs Bullion at 33 per share, b 10.
10 shs Bullion at 36 per share.
10 shs Bullion at 37 per share.
30 shs Spring Valley W W at 54 per cent

AFTERNOON SESSION.

20 shs Chollar-Potosi at 23½@ 30 per ft, Sal.
2 shs Chollar-Potosi at 260 per foot, s 3.
12 shs Belcher at 325 per foot, s 3.
3 shs Chollar-Potosi at 225 per foot.
6 shs Chollar-Potosi at 3 0@3 0 per ft, s 30.
3 shs Chollar-Potosi at 2.75 per foot, s 30.
21 shs Alpha, G. H., at 700@375 per foot.
8 shs Alpha, G. H., at 685 per foot, s 3.
4 shs Alpha, G. H., at 680 per foot, b 30.
8 shs Alpha, G. H., at 650 per foot.
4 shs Crown Point at 695 per foot, s 10.
4 shs Crown Point at 680 per foot, s 60.
8 shs Crown Point at 690 per foot.
1 sh Yellow Jacket at 580 per foot, s 3.
11 sh Yellow Jacket at 582½ per foot.
4 shs Gould & Curry at 1000 per foot, b 30.
1 sh Savage at 890 per foot.
5 shs Imperial at 120 per share, s 3
30 shs Imperial at 119@119½ per share, s 5.
5 shs Imperial at 117½ per share, s 30.
10 shs Imperial at 117½@121 per share.
25 shs Imperial at 124½ per share.
20 shs Imperial at 117@118 per share, s 30.
20 shs Imperial at 119 per share, s 3.
8 shs Imperial at 120 per share.
3 shs Bullion at 40 per share
5 shs Overman at 43 per share, s 5.
50 shs N B & Mission R. R. at 45 per share.
5 shs Cal Steam Nav Co at 64 per cent.
Amount of sales.....$134,809 00

Thursday, November 30.

8 shs Gould & Curry at 950 per foot, s 30.
4 shs Gould & Curry at 1000 per foot, b 30.
4 shs Gould & Curry at 970 per foot.
5 shs Chollar-Potosi at 26 per foot.
15 shs Chollar-Potosi at 265 per foot, b 30.
10 shs Chollar-Potosi at 260 per foot, b 5.
3 shs Chollar-Potosi at 255 per foot.
5 shs Chollar-Potosi at 188 per foot, s 30.
20 shs Chollar-Potosi at 260 per foot, s 30.
15 shs Chollar-Potosi at 265 per foot, b 10.
10 shs Chollar-Potosi at 266 per foot, s 3.
5 shs Chollar-Potosi at 268 per foot, s 15.
10 shs Alpha, G. H., at 85@830 per foot.
1 sh Yellow Jacket at 570 per foot, cash.
1 sh Yellow Jacket at 570 per foot, s 3.
2 shs Yellow Jacket at 580 per foot.
1 sh Yellow Jacket at 565 per foot, s 3.
19 shs Yellow Jacket at 560 per foot, s 30.
2 shs Yellow Jacket at 560 per foot.
3 shs Yellow Jacket at 557½ per foot.
1 sh Yellow Jacket at 555 per foot, s 3.
3 shs Belcher at 330 per foot, s 3.
3 shs Belcher at 320 per foot.
60 shs Ophir at 375 per foot.
60 shs Ophir at 380 per foot, b 30.
21 shs Ophir at 372½ per foot.
21 shs Ophir at 380 per share, b 3.
1 sh Savage at 690 per foot, s 3.
1 sh Savage at 685 per foot, b 5.
1 sh Savage at 675 per foot, s 5.
1 sh Savage at 675 per foot, s 4.
1 sh Savage at 680 per foot.
4 shs Crown Point at 675 per foot.
60 shs Bullion at 37 per share, s 3.
20 shs Bullion at 37 per share.
45 shs Bullion at 36 per share.
7 shs Imperial at 120 per share.
8 shs Imperial at 12 per share.
10 shs Imperial at 122 per share, s 5.
17 shs Imperial at 123 per share.
8 shs Imperial at 123 per share, s 5.
10 shs Imperial at 123 per share, s 10.
5 shs Imperial at 1 24 per share.
10 shs Imperial at 121½ per share, s 10.
10 shs Golden Rule at 11 per share.
2 shs Cal Steam Nav Co at 63@63¾ per ct.
1 sh Cal S Nav Co at 64 per cent
55 shs Spring Valley W W Co at 55½ per ct.
40 shs Fireman's Ins Co, 130 per cent.

AFTERNOON SESSION.

36 shs Alpha, G. H., at 750 per foot.
4 shs Alpha, G. H., at 720 per foot.
8 shs Alpha, G. H., at 740 per foot.
3 shs Belcher at 320 per foot.
3 shs Belcher at 340 per foot.
2 shs Chollar-Potosi at 260 per foot, b 10.
5 shs Chollar-Potosi at 260 per foot
1 sh Yellow Jacket at 645 per foot, b 3.
2 shs Yellow Jacket at 740 per foot.
12 shs Crown Point at 700 per foot, b 30.
4 shs Crown Point at 690 per foot, b 30.
48 shs Ophir at 373 per foot.
60 shs Ophir at 385 per foot, b 30.
30 shs Bullion at 37½ per share, s 30.
95 shs Bullion at 35 per share.
10 shs Bullion at 36 per share, b 10.
30 shs Bullion at 35 per share, s 3.
15 shs Bullion at 35½@38 per share.
8 shs Imperial at 120 per share, s 5.
45 shs Imperial at 121 per share, s 10.
42 shs Imperial at 121 per share.
70 shs Exchequer at 12 per share.
70 shs Exchequer at 12 per share, s 3.
6 shs Overman at 43 per share.
5 shs Cal. Steam Nav. Co. at 63 per ct, b 2
1 sh Steam Nav Co at 63 per cent.
5 shs Cal S Nav Co at 63 per cent, s 3.
Amount of sales.....$129,639 00

Friday, December 1.

4 shs Crown Point at 700 per foot.
8 shs Yellow Jacket at 535@525 per foot.
20 shs Alpha, G. H., at 720@740 per foot.
16 shs Chollar-Potosi at 260@258 per ft, b 30.
17 shs Chollar-Potosi at 255 per foot.
50 shs Chollar-Potosi at 250@252 per sh, s 10.
29 shs Chollar-Potosi at 255 per foot, b 30.
30 shs Chollar-Potosi at 250@249 per foot.
108 shs Ophir at 370@365 per foot.
70 shs Imperial at 120@121 per share.
10 shs Imperial at 122 per share, b 30.
60 shs Imperial at 121@123 per share.
11 shs Imperial at 121 per share, s 10.
8 shs Savage at 665@670 per foot, cash.
2 shs Savage at 650@640 per foot, b 30.
16 shs Gould & Curry at 975@970 per foot.
4 shs Gould & Curry at 950 per foot, s 30.
8 shs Belcher at 265 per foot
150 shs Bullion at 36@35 per share.
Amount of sales.....$ 83,642 00

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and other San Francisco Journals.*

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'D DELINQ'T LIST.	DAY OF SALE.
Arizona Copper, Arizona, 25c		Nov 25	Dec 8
Atlantic and Pacific		Special Meeting,	Dec 11
Alhambra, Lyon co., Nev., $1.50		Dec 9	Dec 22
Baltimore American, El Dorado co., $2		Dec 20	Jan 3
Butte, Humboldt co., $1.50		Nov 15	Dec 6
Bunker Hill, El Dorado co., $1.50		Dec 1	Dec 15
Bee S M. co		Annual Meeting,	Dec 22
Bullion, $10		Levied	Nov 25
Comet, Petroleum, Humboldt co. 30c		Nov 18	Dec 4*
Chloride Ledge, Cutaveras co., $1		Nov 25	Dec 9*
Camargo, Lander co., Nev., $5		Nov 25	Dec 9*
Chilpinena, Sonora, Mex., $5		Dec 2	Dec 16*
Caledonia Tunnel, Gold Hill, Nev., $2		Dec 11	Dec 21
Cole, Storey co., Nev., $1		Dec 21	Jan 6
Chicago, Lander co., Nev., $2		Dec 30	Jan 15*
Colo, Storey co., Nev		Annual Meeting,	Dec 13
Dancy			Dec 4
Eagle, Amador co., 75c		Nov 25	Dec 14*
Exchequer, Storey co., Nev., $2		Nov 24	Dec 9
El Porteuto, Mex 65c		Nov 18	Dec 2
Franco Americana, San Antonio, L. C., 25c		Nov 25	Dec 8
George Washington, Alpine co., $1			Dec 9
Golden Rule, Dividend		Payable	Oct 20
Gold Hill Tunneling, Storey co., Nev., 75c		Dec 5	Dec 23
Guasaparis, Chihuahua, Mex	$10	Dec 7	Dec 23
Goodwin, Lander co., Nev., $2		Dec 9	Dec 26*
Hale & Norcross, Storey co., Nev., $25		Nov 27	Dec 11
Hibernia, Arizona, 10c		Nov 25	Dec 8
Imperial		Dividend Payable	Nov 10
Jefferson, Yuba co		Dividend $15	Nov 27
Jeffrey Oil Mining co		Special Meeting,	Dec 4
Keokuk, Contra Costa co., 10c		Dec 16	Dec 30
Kentuck, Storey co., Nev., $17.50		Jan 3	Jan 15
Klamath Ravine, Sierra co		Annual Meeting,	Dec 18*
Leon, Esmeralda co., Nov., 35c		Nov 17	Dec 18
La Favorita, Sonora, Mex., 50c		Nov 25	Dec 9*
La Fernandez, Sonora, Mex., $5		Nov 23	Dec 8
Libertad, Sonora, Mex., $5		Nov 21	Dec 9
Lady of the Lake, S. F. Dist., Arizona, 25c		Dec 30	Jan 18*
Leland, S. F. Dist., Arizona, 25c		Dec 30	Jan 18*
Maria, Chihuahua, Mex., $1		Nov 18	Dec 2*
Mount Davidson, Storey co., Nev $1		Dec 2	Dec 20*
Moss Ledge, $5		Nov 30	Dec 15
Maggie, Lander co, Nev., $1		Dec 26	Jan 11
Nuestra Senora de Guadalupe, Jalisco, $6		Dec 8	Dec 18
Nuestra Senora de Guadalupe, Durango, $1		Dec 4	Jan 20
North American, Nev. $6		Levied	Nov 15
Oroville, Butte co., $1		Nov 18	Dec 2*
Overman, Storey co., Nev., $25		Dec 19	Jan 3
Orleans Quicksilver, Lake co		Annual Meeting,	Dec 30*
Porter, Butte co		Annual Meeting,	Nov 27
Patrocina and Dolores, Chihuahua, Mex., 75c		Dec 28	Jan 16
Refugio, Chihuahua, Mex., $2½		Dec 27	Jan 9
Santa Cruz, San Antonio, Lower Cal., $3		Dec 29	Jan 10
Savage, Storey co., Nev., $100		Nov 28	Dec 13
Santa Cruz, Petroleum, 49c		Nov 25	Dec 14*
Segregated Belcher, Gold Hill, $4		Nov 25	Dec 9*
San Francisco "Moss Ledge," $5		Nov 30	Dec 15
Simpson, Alpine co., 25c		Dec 2	Dec 16*
Spring Hill, Nevada co., Cal., $10		Dec 1	Dec 12
Sierra Silver, Douglas co., Nev		Annual Meeting,	Dec 11
Sierra, Douglas co., Nev., $3		Nov. 25,	Dec 9
Southern Light		Caullon	Nov 20*
Salamno, Tuolumne co., 50c		Jan 3	Jan 22
Siempre Viva, Sinaloa, Mex., $2 50		Jan 6	Jan 20*
Sierra Nevada, Storey co., Nev., $3		Dec 28	Jan 15
Table Mountain, Calaveras co., 50c		Dec 2	Dec 18*
Triunfo, San Antonio, L. C., $1		Dec 1	Dec 14
Tirita S M co., $3		Levied,	Nov 25
United States, Storey co., Nev., 50c		Dec 16	Dec 30*
United States		Annual Meeting,	Dec 25*
United States, Lander co., $1.05		Dec 30	Jan 15*
Wide West, Esmeralda co., $5		Nov 18	Dec 4*
White & Murphy, Storey co., Nev., $5.50		Dec 4	Dec 15
Wide, West, Alpine co., $1		Dec 16	Dec 30*
Yellow Jacket, Storey co., Nev., $100		Dec 15	Jan 15
Yuba, Brown's Valley, $2.50		Dec 16	Dec 30*
Zenith, Calaveras co., Cal., $3.25		Dec 9	Dec 23*
"470," Storey co., Nev., $6.25		Dec 28	Jan 13

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Baltimore American	Nov 18	2 00
Bullion	Nov 26	10 58
Cole	Nov 25	1 00
Caledonia T & M Co	Nov 10	2 00
Exchequer	Oct 24	2 00
Gold Hill Tun & M Co	Nov 3	75
Keystone	Nov 8	10 00
Mount Davidson	Nov 7	1 00
North American	Nov 16	5 00
North Comstock	Nov 2	25
Overman	Nov 18	25 00
Schiller	Nov 11	1 00
Sierra Nevada	Nov 28	3 00
United States	Nov 15	50
Utah	Oct 31	6 00
White & Murphy	Nov 3	5 50
Yellow Jacket	Nov 14	100 00

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale.
American Basin	Dec 18	Virginia
Bishop	Dec 5	Gold Hill
Exchequer	Dec 9	San Francisco
Hale & Norcross	Dec 11	San Francisco.
Kossuth	Dec 2	Virginia
Kennedy	Dec 22	Virginia
Mount Moriah & Lincoln	Nov 28	Gold Hill
Nevada	Dec 8	Virginia
Orleans Flat	Nov 24	Virginia
Sand Springs, Salt	Nov 30	Virginia
Union	Dec 18	Virginia

San Francisco Stock and Exchange Board.

SAN FRANCISCO, December 2d, 1865.

	Bid.	Asked.
United States 7 3 10ths	$ —	$ 74
Gov. Legal Tender Notes	67¼	68
State Bonds, 7 ₱ cent	86½	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	70	..
San Francisco Bonds, 1858, 6 ₱ cent	65	..
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	60	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	77½
Butte County Bonds, 10 ₱ cent	..	80
California Navigation Co	69½	70
State Telegraph Stock	31	32
San Francisco Gas Co	100	105
Sacramento Gas Co	..	75
Spring Valley Water Co	53	54
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	45	47
Central Railroad Co	..	..
North Beach and Mission	45	48
MINING STOCKS.		
Ophir	$ 390	$ 400
Gould & Curry	925	935
Empire M. & M. Co	....	....
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	740	750
Chollar-Potosi	292	295
Hale & Norcross	145	155
White & Murphy	....	....
Sierra Nevada	5	8
Daney	..	10
Burning Moscow	....	....
Lady Bryan	..	..
Sacramento & Meredith	....	....
Burnside	....	....
Iowa	....	....
El Dorado	....	....
North American	....	....
Baltimore American	....	....
Yellow Jacket	610	615
Overman	46	48
Cedar Hill Tunnel	....	....
Wide West	1	2
Crown Point	785	790
Antelope	....	....
Esmeralda	1	5
Aetna	....	....
Real del Monte	....	15
Silver Hill	....	....
Utah	....	....
Justis	....	....
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co	....	....
Melones and Stanislaus	....	....
Sheba	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H	42	43
Buckeye	....	....
Dick Sides	....	....
Imperial	136	137
Alpha	850	860
Bajazett	....	....

San Francisco Metal Market.

PRICES FOR INVOICES.

Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.

SAN FRANCISCO, Dec. 2d, 1865.

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1¼c ₱ lb; Sheet, polished, 3c ₱ lb. common, 1¾@ 1¾c ₱ lb; Plate 1½c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2½c ₱ lb:

Scotch and English Pig ₱ ton	40	@—
American Pig ₱ ton	36	@40
Refined Bar, bad assortment, ₱ lb	3	@—
Refined Bar, good assortment, ₱ lb	3½	@—
Boiler No. 1 to 4	4	@ 5
Plate No. 5 to 9	4½	@ 6
Sheet No. 10 to 13	4	@—
Sheet No. 14 to 0	5	@—
Sheet No. 24 to 27	5½	@—

COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb

Sheathing ₱ lb	30	@32
Sheathing, Old	29	@30
Sheathing, Yellow	30	@32
Sheathing, Old Yellow	12	@13
Bolts	13	@16
Composition Nails	30	@32

TIN PLATES.—Duty: 2½c ₱ lb.

Plates, Charcoal, IX ₱ box	10	@12
Plates, I C Charcoal	10	@11
Roofing Plates	10	@ 11
Bauca Tin Slabs, ₱ lb	41	@42½

STEEL.—English Cast Steel, ₱ lb. 12½@16

QUICKSILVER.—Per lb. —@65

For export	55	@—

ZINC.—Sheets ₱ lb. 9½@10

LEAD.—Pig ₱ lb. 7 @ 8

Sheet	10	@12
Pipe	10	@12
Bar	9½	@10

BORAX—California, ₱ lb. @25

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	80	@ 90
do pickled ₱ lb	65	@ 75
do Oregon	50	@ 60
do New York, ₱ lb	40	@ 50
Cheese, ₱ lb	25	@ 35
Honey, ₱ lb	30	@ 40
Eggs, ₱ doz	80	@ 90
Lard, ₱ lb	30	@
Hams and Bacon, ₱ lb	28	@ 30
Cranberries, ₱ gal	75	@ 1 00
Potatoes, sweet, ₱ lb	2	@ 5
do Irish, ₱ lb	1	@ 2½
Tomatoes, ₱ lb	5	@ 8
Onions, ₱ lb	6	@ —
Apples, No. 1, ₱ lb	4	@ 10
Pears, table ₱ lb	3	@ 10
Plums, dried, ₱ lb	15	@ 25
Peaches, dried, ₱ lb	15	@ 25
Grapes, ₱ lb	5	@ 15
Oranges, ₱ doz	75	@ 1 00
Lemons, ₱ doz	1 00	@ 1 50
Chickens, apiece	62	@ 1 00

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 50	@ 7 00
Do Superfine	6 25	@ 6 75
Corn Meal, ₱ 100 lb		@ 4 00
Wheat, ₱ 100 lb	2 00	@ 2 10
Oats, choice, ₱ 100 lb	1 45	@ 1 50
Barley, ₱ 00 lb	1 05	@ 1 10
Beans, ₱ 100 lb	2 25	@ 2 50
Potatoes, ₱ 100 lb	1 00	@ 1 30
Hay, ₱ ton	15 00	@ 17 50
Live Oak Wood, ₱ cord	8 00	@ 10 00
Beef, on foot, ₱ lb	6	@ 7
Beef, extra, dressed, ₱ lb	12½	@ 15
Sheep, on foot	1 00	@ 2 00
Hogs, on foot, ₱ lb	9	@ 10
Hogs, dressed, ₱ lb	14	@ 15

Groceries, Etc.

Sugar, crushed, ₱ lb	18½	@—
Do China	10	@ 12½
Coffee, Costa Rica, ₱ lb	21½	@—
Do Rio	26	@
Tea, Japan, ₱ lb	85	@ 95
Do Green	70	@ 90
Hawaiian Rice, ₱ lb	10	@ 11
China do	8	@ 10
Coal Oil, ₱ gal	85	@ 95
Candles, ₱ lb	24	@ 25
Ranch Butter, ₱ lb	55	@ 75
Isthmus do	35	@ 42½
Cheese, California, ₱ lb	20	@ 25
Eggs, ₱ doz	75	@ 80
Lard, ₱ lb	24	@ 25
Ham and Bacon, ₱ lb	25	@ 26
Shoulders	20	@ 22
Soap—Pale & C. O	12½	@ 14
Castile	14½	@ —

Rates of Advertising

IN THE

MINING AND SCIENTIFIC PRESS.

Mining Advertisements.

Notices of Meetings, per square, one week	$1 00
Notices of Meetings, per square, four weeks	2 50
Assessment Notices, of ordinary length, four weeks	5 00
Assessment Notices, of more than usual length, for each additional square	2 50
Delinquent Sales, per square, two weeks	2 00
Delinquent Sales, per square, three weeks	2 50
Postponements, per square, one week	1 00
Slips of Advertisements, printed for meetings or assessments, per hundred	1 00
Advertising blanks and circulars	Free

Miscellaneous Advertisements.

One week, per square	$1 00
One month, per square	2 50
One quarter (3 months), per square	7 50

Advertisements of great length, or of special character, inserted by contract on the most favorable terms.

☞ *Ten lines of solid advertising type constitutes a square.* ☜

Terms of Subscription.

THE MINING AND SCIENTIFIC PRESS is published every Saturday morning (containing sixteen pages—size of *Harper's Weekly*) at the following rates:

One copy, one year, by mail, in advance	$5 00
One copy, six months, by mail, in advance	3 00
One copy, one year, by express	5 50
One copy, six months, by express	3 50
Five copies, one year, by mail, in advance	20 00
By city carriers, per month	50
Single copies	12½
Monthly Series (or parts), containing 4 Nos	50
Monthly Series, containing 5 Nos	62½

THE CIRCULATION of the PRESS, already extensive, is rapidly increasing, and substantial men who can profit by widely disseminating information of their business amongst the most intelligent, influential and industrial classes of the Pacific States and Territories, find no more effectual or economical medium for advertising.

DEWEY & CO., Proprietors.

Patent Agency and Job Printing Office, 505 Clay street, San Francisco. July 1 1865

Just and True Economy

IN MINING ADVERTISING.

The Proprietors of the MINING AND SCIENTIFIC PRESS would call the especial attention of MINING SECRETARIES, TRUSTEES and SHAREHOLDERS, to a few substantial reasons for the publication of Mining Notices in their journal—the first and only important newspaper of its class published upon this coast.

1st. The PRESS enjoys a large and permanent subscription list, having a more universal circulation among shareholders and men intimately connected with mining interests than any other publication.

2d. Under the present law the publication of all mining notices on Saturday, in a weekly journal, complies as fully with the statutes as a daily publication. It is generally found to be equally as convenient for secretaries, and decidedly preferable to stockholders who have not time to examine throughout every issue of a daily.

3d. Economy in mining should always be looked upon with favor, and the cost for weekly advertising in the PRESS is less by ONE-HALF than the rates of any other journal in this city possessing a respectable circulation.

4th. The publishers of the PRESS, making the mining interest their especial care, take particular pains to assist in the avoidance of errors in advertising. Our print is also more clear and perfect than can be expected in such papers as are hurriedly issued from cylinder presses.

5th. Our Shareholders' Directory forms a complete index of all mining notices published in San Francisco, by reference to which shareholders can at once see if their company is advertised, and determine whether the same is inserted in the PRESS or some other paper.

6th. A file of copies of the PRESS, bound by prominent professional men, mechanics, secretaries, brokers, shareholders and others, as an important record for future reference, thereby rendering advertising, of every class, in its columns, of peculiar and permanent value.

7th. Our "Assessment and Delinquency" forms a complete index of all mining notices published in San Francisco, by reference to which shareholders can at once see if their company is advertised, and determine whether the same is inserted in the PRESS or some other paper.

8th. A full list of the copies of the PRESS, bound by prominent professional men, mechanics, secretaries, brokers, shareholders and others, as an important record for future reference, thereby rendering advertising, of every class, in its columns, of peculiar and permanent value.

9th. The "Assessment and Delinquency" forms a complete index of all mining notices published in San Francisco, by reference to which shareholders can at once see if their company is advertised, and determine whether the same is inserted in the PRESS or some other paper.

LAST, BUT NOT LEAST.—Our sheet (having been recently enlarged to the size of Harper's Weekly) is now only equalled in its dimensions by one mining paper in existence—the *London Mining Journal*. Published in this, the greatest mining field of the world, we desire that the PRESS shall have no superior. We can only realize our cherished object of building up a reliable advocate of the science and business of mining, which will be of just honor and profit to our community, by experience and liberal patronage. The bestowal of such favors only as naturally belong to us, and which it is clearly for the benefit of the mining fraternity to extend, is all that is requisite, and we are confident we shall receive it

DEWEY & CO.,

4v13 Office Mining and Scientific Press.

POSTPONEMENTS.—We would again call the attention of Secretaries to a certain point of the mining law, too commonly overlooked, viz: The requirement that all postponements must be added previous to the expiration of the regular publication of assessment or sale notices.

BACK VOLUMES.

Back files of the MINING AND SCIENTIFIC PRESS, from January 1st, 1864, to the present time, will be furnished at $3 per volume of six months; bound in cloth, $5.

Mining Summary.

CALIFORNIA.

The late storm has enabled the miners everywhere, out of the river beds, to get fully at their winter's work. The gulches are alive with regular mining operations or prospectors. The hydraulic miners are also in their element, and have an abundance of water for their mammoth operations. A new impetus has also been given to prospecting for quartz. Hundreds of new ledges will be opened during the winter, and the soft mountain ground will everywhere be turned up in search of its precious treasure. The owners of extensive placer mines are now calculating on a most successful season's work. It is estimated that there will be at least one-third more placer mining this season than there was last winter.

The renewed interest in our mines, both quartz and placer, by capitalists heretofore noted, is continued with increasing zest, and bids fair to far exceed that of any previous period. A better understanding appears to prevail between labor and capital throughout the State. The Sacramento *Bee* thinks that if the miners will only adhere to their resolution of holding a convention, many obstacles now in the way of their prosperity will be satisfactorily overcome.

A large amount of ores in the rough, copper, gold and silver, are now being sent Eastward, mostly on English account. This has now become a permanent and important feature in the mining business of the Pacific coast, and of California in particular.

ALPINE COUNTY.—We learn from the *Gazette*, published at the town of Monitor, that the Leviathan mine, under the direction of E. Arnold, the newly elected Superintendent, is having a road built from Bagley Valley to the works of this company for the purpose of facilitating the laying in of winter supplies, it being the intention of the company to see the inside of their ledge between this and spring. At a meeting of the Trustees held this week, our old friend William Miller, now residing permanently in Monitor, was elected secretary of the Leviathan company.

The contractors on the Mowyer ledge are engaged in cutting across the ledge, and find it very slow work. The quality of the rock improves as they approach the center of the ledge. As a rule the pay vein of ore in all of our main ledges lies next the hanging wall, the distance to which in this case is not known. All interested are hopeful.

The Mullan Tunnel is now in a little over 300 feet, and by survey immediately beneath the croppings, the distance now to be overcome being merely the dip or pitch, which it is thought will soon be done.

The Silver Mountain *Bulletin*, published at Silver Mountain, gives the annual financial report of Buckeye No. 1, stating the amount of money which has been raised by assessments for the year ending November 11th, 1865, and the manner and purposes for which it has been expended. The example is a good one, and one which should be more universally followed.

The *Chronicle*, published at Markleeville, says that the survey of the route for the contemplated flume from Cary's mill, in this county, to Empire City, Nevada, is being pushed forward with every possible dispatch.

NEVADA.—The *Transcript* says the water mills in and about Nevada have now an abundance of water for power. Mr. Stiles is trying an interesting experiment by substituting stone instead of iron for shoes in his pans.

Some excellent quartz lodes have been prospected in the vicinity of Rogers' ranch, in Deer Creek. The Star Spangled Banner ledge promises to become one of the best in that section. The company will soon have up a first-class 20-stamp mill. The engine has already been purchased in San Francisco.

Some of the Nevada county papers are complaining, because the proprietors of the old Pittsburg claim in Nevada, residents of this city, allow that valuable mine to stand idle. It was last worked by Weeks & Co., on a lease of three years, at $150 per month. They took out $120,000 in the last eighteen months. The proprietors hold the mine at $75,000.

The Grass Valley *Union* says that the mine of Messrs. Welsh, Shurtleff & Mather, on Slate Creek, is being vigorously worked. The proprietors of the Kate Hayes mine, located on Kate Hayes Hill, are quietly but steadily pushing work in their claim. They have now an incline down one hundred feet, and have commenced the erection of machinery for hoisting and pumping. This machinery will be first-class, and will cost some eight thousand dollars.

A cake of retorted gold, valued at $3,000, is reported as the result of one week's crushing of rock from the Scudder Flat mine. Another cake, valued at $1,800, was the proceeds of forty lodes of rock from the Home mine, in Wood's Ravine, on Deer Creek.

The Hydraulic Mines.—The hydraulic miners in the vicinity of Quaker and Hunt's hills are commencing work. One set of diggings in Sargent & Jacob's claims have already been started, and three will soon be ready. The Dutch company have already commenced work, and a numbers of others are almost ready.

The Manzanita Hill claims have also been started. Maltman & Co. have water enough in their own ditch, and several large streams are plying against the bank. Work is started on these claims unusually early, and no doubt a large amount of gold will be taken out this season. Williamson & Co., owners of the Lost Hill claims, will resume work in a few days. Last season, these claims, which had not been worked for six or eight years were fitted up at an expense of four or five thousand dollars. This winter the claims can be worked to good advantage. The miners on Gold Flat have commenced operations. At Moor's Flat and all the way down the Ride to French Corral, water is abundant and everybody is busy.

Excelsior District.—Prospecting at Summit City has been suspended for the winter. Nearly all have left the place except those who propose to winter there. The owners of the California mill have made arrangements by which they will be able to continue running all winter—at least they will not be stopped by either cold weather or deep snow. Mr. Tibbetts, the enterprising express-man, has made arrangements by which he will be enabled to keep the residents there in communication with the outside world, until the returning spring shall again unlock the icy gates of winter to ordinary traveling. We trust his experiment will prove as profitable as it certainly is enterprising and daring; for it is no small thing to brave the winter storms of the upper Sierra.

PLUMAS.—The Crescent Quartz company, according to the Quincy *Union* of the 25th instant, had cleaned up during the previous two weeks over $17 000. The rock from the third level proves much richer than any hitherto taken from the mine. This level is one hundred and ninety-five feet from the surface. Another shaft has been commenced directly on the ledge at this depth, which is now sunk about twenty-five feet, and shows an increasing richness as they descend—the ledge still retaining the same thickness. This company has now fifty-six stamps running, and still the supply of rock seems inexhaustible.

YUBA.—We learn from the Marysville *Appeal* that the Sweet Vengeance company has resumed work, by letting a contract for sinking a new shaft. The same paper learns that during the week about 250 shares in the Pennsylvania company have changed hands at from $15 to $20 per share. The sellers are few, and at the rate of $15 there are evidently more buyers than sellers. Twenty dollars and upwards is generally asked.

The reputation of the Brown's Valley mines is evidently working to the "upper grade."

TULARE.—The Hate mine, in Clear Creek district, Tulare county, has been sold to Messrs Loveland, Hagerman and others, of San Francisco, for $20,000. The round sum of $100,000 has been offered and refused for the McKeadney mine. Neiswander, Pard and Donald have some fine leads on Neiswander Hill, which they are working with a 5-stamp mill, and clearing about $5,000 every week. Shafts are sunk on some of these last-mentioned leads to the depth of 175 feet.

VIRGINIA CITY AND VICINITY.

The Virginia City *Enterprise* says that prospecting in the State of Nevada is at rather a low ebb at present, and there will be but little done in the more snowy regions till spring.

We are able to glean but very few mining items of any especial interest, this week, from the Virginia papers. The *Enterprise* says that it has long been the conviction of many that an exceedingly rich quartz vein must pass through Cedar Hill, north of the town. The reasons for thinking so are that float rock full of free gold abounds on the eastern slope of the hill, and that the dirt on that side of the hill pays with but a small head of water $100 per day to the hand for washing. Although a considerable amount of work has been done on the hill, up to the present time the lead from which all this gold rock came has not been found. Teams are at present engaged in hauling rock and dirt to mills on American Flat from the old hydraulic diggings for crushing. There is a difference of opinion as to whether this rock and dirt comes from the top of a lead running through the hydraulic claim, or whether it is float or a slide from a lead above; but, be this as it may, it is certain that there is an exceedingly rich vein somewhere in the hill, which, sooner or later, will be found.

Some two or three companies on Cedar Hill are getting out ore for crushing.

A force of four men are now at work upon the Utah mine, drifting in ground hitherto unbroken, in search of the continuation of the Comstock vein.

The Gold Hill *News* says that a lot of rock from the Mammoth ledge, in Eagle district, has been received at Gold Hill to be worked by mill process. The rock looks well, and resembles Gold Hill top rock. An assay went upwards of $800. The company have a tunnel in some 900 feet, and think that in a short time they will strike the ledge. Several companies are at work in that district, running tunnels into their respective ledges. The impression appears to be that the mines in that district have a fine prospect ahead.

The experiment of working over the old quartz tailings below Gold Canon promises to prove a decided success. The editor of the *Union* has been the recipient of 6.78 ounces of amalgam, the proceeds of one thousand pounds of these tailings, worked by Mr. A. Basset, with his new barrel process, at his mill, in seven-mile canon. From experiments lately made by Mr. Basset in working tailings, the process that he is now using will undoubtedly prove a success.

REESE RIVER.

We give from the *Reveille* the following digest of the mineral resources of Lander county, prepared from the annual report of Charles O. Barker, County Assessor. He says that gold, silver, copper, sulphur, lead, iron, and almost every other mineral, are found within the limits of the county. Coal has not yet been found. There is one extensive salt marsh which is being successfully and profitably worked. An excellent quality of limestone is found in almost every section. The number of silver mines is legion; those most developed are about Austin. Some of the lodes are two hundred feet thick. The deepest incline as yet does not exceed 300 feet. Water is found at from 50 to 100 feet. The cost of milling ore average $75 per ton. There are now in operation in the city sixteen steam and three water-power quartz mills. He finds it impossible to give the whole number of mining companies, wild-cat, and otherwise.

The Ruby district, located about 100 miles north-east of Austin, is very highly spoken of. It contains an abundance of water, abounding with fish and fowl. It was discovered and located by Mr. Tennehill and party, who located twenty nine ledges for the Austin Mining company. The ledges are large, varying from five to twelve feet thick, and are generally found in feldspathic granite, and in slate and limestone. Assays have been made of the ores obtained from fourteen of the ledges, and they all exhibit silver in handsome quantities.

The Twin River district, according to the *Reveille*, continues to attract attention. Prof. J. E. Clayton, Mr. Clink—agent for parties in London—Col. Rust, and Mr. Herman Camp, of New York, and other persons of note, have recently visited and inspected the district with the view of purchasing mining property. The Murphy ledge is being worked with a large force, under the superintendence of Captain Shears. All the machinery for the company's mill had arrived. Work is progressing with energy and system on several other ledges, and the result generally is very gratifying. Some forty or fifty men will be employed during the winter on the different mines.

The Yankee Blade district has lately been visited and carefully examined by Mr. M. Angel, formerly editor of the *Reveille*, and a gentleman well qualified to judge correctly in mining matters. His report was more particularly devoted to a series of ledges belonging to the Hibernia company, eleven in number; but also contains general allusions to many other mines in the district. The mines generally are reported as promising rich developments, requiring only time and a reasonable amount of capital to prove their value.

In the San Francisco district the Liberty mine is said to present the largest body of rich chloride ore yet discovered in the entire Reese River country. No sulphuret ore has yet been found in the district.

The Nye County *News* mentions as a heavy mining transaction, the report that James P. Sargent, President of the Toiyabe Mining company, has sold to Col. Rust, on account of Eastern capitalists, four ledges situate in the Twin River district, the celebrated Vulcan, generally accounted one of the best there, going among the number. The precise terms of the sale have not been made public, but it is understood that they are such as are likely to prove advantageous to both parties, the erection of a 20-stamp mill on the part of the purchasers being a part of the consideration.

The first bullion from the Silliman ledge, on Union Hill, was recently produced. The ore was reduced at the California mill, and consisted of 500 pounds of first-class ore and 4,115 pounds of second-class ore. The assay of the pulp of the first-class ore gave $1,316, and of the second class, $165 of silver to the ton. The bar weighs 664 ounces, and is valued at $703 11. This valuable mining property belongs to a Boston company, of which Thos. D. Johns is Trustee, and Captain Alpheus Smith, Agent.

ESMERALDA.

Aurora, it would appear from the following summary, has neither been removed or burned, both of which disasters have recently been reported of it. We learn from the Esmeralda *Union* that Wells, Fargo & Co., a few days since, shipped from their office in Aurora four bars of bullion from the Diana claim at Blind Springs, which were worth, per assay, $1,990. The Diana is one of the richest claims in the world, and if it continues to pay for a few months as it is paying now, will make its owners wealthy.

A pack train arrived the same day from Silver Peak, loaded with fifteen boxes bullion from Martin & Co.'s claim—the aggregate weight of the bars being 1,050 pounds, and the estimated value about $40,000. At the time this amount was sent in the company had fifteen boxes more at their mill, which they could not ship for want of the means of transportation. This is all from one small mill. Next year, when larger and better mills shall have been erected out there, the Silver Peak country will astonish the world.

The Silver Peak district is located about 120 miles southeast from Aurora, on the eastern slope of the Red Mountain range. Although there are supposed to be many valuable mines there, as yet but few have been worked to any considerable extent. The mill above referred to, of Martin & Co., is, we believe, the only mill yet erected there. This mill runs ten stamps of 500 pounds each, and six of Verney's puns with their settlers.

The other claims in the vicinity are the Pocatilla, very rich on the surface, with a chimney out-crop of 150 feet across and 300 feet long; the Astor, Empire State, Confidence, Hudson, and Oakland, all, we believe, belonging to Martin & Co., and all said to be very promising lodes.

The Citizens' Prospecting Association made arrangements with the Golden Age and Empire company for the purchase of a suitable engine, hoisting and pumping apparatus, to be placed on the deep shaft, when the work, which has been temporarily suspended on account of water, will be resumed and vigorously prosecuted to completion.

The proprietors of the Coaster claim have made a new strike, and found another small vein on Last Chance Hill, from which they are getting some very rich ore.

HUMBOLDT.

The Montezuma, says the *Register*, is turning out considerable quantities of fine ore, though working light-handed at present. The boys will not rush the work much till Webber gets his mill and furnaces in running order, so as to make early returns from ore worked by him. At a depth something over 100 feet the ledge is a little over six feet, solid mineral, worth near $200 to the ton. The Montezuma will turn out more bullion next year than any ledge outside of Arabia.

More discoveries are announced in the Arabia district. Rutherford, Whitmore, and other Arabians, while burning coal, at the spring some five miles west of Arabia, made discovery of a remarkable ledge. It is fifty feet wide, apparently of solid quartz, and the quartz bearing ores of antimony, copper, lead, and silver. It has the appearance of being rich in silver, but no test has yet been made.

On the Jersey lode work is going on better than on any other ledge in the county. The Atchisons are putting it ahead in a business-like style—working from five shafts, and taking the ore to the Etna mill as fast as taken out. The ledge is six feet between casings, and solid ore—the red ore of the Montezuma. Shafts have been sunk to different depths within the past three weeks—one forty feet, one thirty eight, one twenty-four, and the others seven to eight feet deep—in different parts of the ledge. In all the walls are found good, well cased with clay, and the ledge solid mineral, as described. An incline will be started into the ledge next week. Work on this lode is being prosecuted under the energetic management of Mr. Geo. W. Fox, as superintendent.

Mechanical.

THE MODERN AGE OF IRON.

Most emphatically is the present an age of iron. By the use of this metal has man, within even the lifetime of the present generation, been able to impress into his service many of the forces of nature, which, till the dawn of the present century, were scarcely more than known to have an existence. The hidden power contained in wood and coal, and developed through the medium of steam, has been known to man from the earliest period of history; but never, until his mechanical genius had devised a way for the ready and cheap production and manipulation of iron, could he have contrived a harness within and by which it might be controlled and made his servant, as obedient and willing as the merest child. Without the improvements latterly introduced into the manufacture of iron and steel, the world must long have been kept back in the same old jog-trot rate of progress with which it moved, up to the commencement of the present century. Less than one hundred years ago iron was employed only in the manufacture of a few simple tools and appliances, such as were necessary to resist great wear or strain. Perishable wood was the almost universal material employed for constructive purposes. What a vast change has taken place within the last fifty years! Now we are hauled along with an iron horse, over an iron road, at fifteen or twenty times the speed formerly obtained over common roads. We go to sea in iron ships, and fight our naval battles in iron boxes, impervious to cannon of twenty times the destructive force of those with which our fathers fought. We live in iron houses, build iron fences, get our water from iron mains and pipes, and light our dwellings in the same manner, without the use of lamps. We build iron bridges, and even construct a track for the lightnings of heaven, across continents and under seas, of this same omnipresent iron. We stretch out our iron arms to bind together States and nations, and insinuate our tiny nerves of iron into a perfect net-work of electrical communication, by which our wants are conveyed, with the speed of thought, to the uttermost parts of the earth! Most emphatically is this an iron age.

Every one of these instances of immeasurable results, now fully realized, and hundreds of others in store, have been accomplished directly out of comparatively insignificant modifications of well known principles and means—all having direct and special reference to iron. For thousands of years the human race had moved quietly along, satisfied with the knowledge of employing this useful metal in the manufacture of a few of the most indispensable articles of trade and commerce, and hiding what little they did know of it among the secrets of art. From the present day back to the time of the Hebrew Samuel, when "there was no smith found throughout all the land of Israel;" by reason of which all the Israelites were compelled to go "down to the Philistines, to sharpen every man his plowshare and his coulter, his axe and his mattock," all the progress in the art of producing and manufacturing iron, is but a mere hagatelle in comparison to the result of Mr. Bessamer's recent discovery for converting iron into steel, and thereby increasing its durability and value for commercial purposes. It is a most astounding fact that this first successful attempt to improve upon the ancient method of accomplishing this work should date back but a single decade; and it is almost as much a matter of astonishment that the idea of converting iron into an alloyed metal of some twenty times its ordinary strength, as noticed by us last week in the article descriptive of ferro-manganese, should have been deferred to within about the same time.

The efforts, however, of Messrs. Bessamer & Kruff, in one direction, and those of Mr. Mushet and Dr. Preiger in another, would never have been consummated, or possibly even conceived of, had it not have been for the late extraordinary demand for iron and steel to meet the growing wants of this progressive age.

Work and Inventions.—Mr. Mills tells us in his "Political Economy," that the labor saving inventions of modern times have not yet lessened the daily labor of mankind. The steam engine does the work of about one thousand millions of men—more men than are in the world—and this inconceivable addition in the world's working force has all occurred in ninety years; yet no man finds his day's work diminished by it. On the contrary, we work harder than we did ninety years ago, and hardest where there are the most steam engines. The farmer on our western prairies, by the aid of the mowing machine, gets in, in one week, a crop which his father could not have got in by working till the grain dropped over-ripe from the straw; and then he thrashes, in six hours, more than his father could have flailed out in a whole winter. But he works harder than his father did, winter and summer. Ladies have made the same remark upon the sewing machine; they can sew at a pace that would have made their grandmothers gape to see, but their sewing is never any nearer *done* than it was when they set every stitch by hand.

We believe it will be so to the end of the chapter. We do not believe that any possible development of invention will ever much lessen the amount of human toil. As long as the world stands, we think the world will daily require, for carrying on its business, its entire daily revenue of force.

Iron and Steel Manufacture.—Prof. A. L. Fleury of New York, who recently contributed a series of valuable articles to the Oil City *Register*, Pa., is now in Europe and promises another series of papers descriptive of the various new processes of iron and steel manufacture and other matters of importance to manufacturers or miners, that he may meet with in his travels. The last number of the London *Mining Journal* says: A process for increasing the strength of cast-iron by the addition of an alloy of zinc, lead and tin, in the proportion of about 7 per cent. has been presented to the Franklin Institute by Prof. A. L. Fleury. This process is patented, and the amalgam prepared by Mr. W. M. Arnold, of the United States Composition Iron Company, New York. Prof. Fleury also described a process of manufacturing steel analagous to that of Bessamer, in which the decarbonization of the cast-iron was effected by introducing into it, while melted, pulverized oxide, whose oxygen served to combine with and remove the excess of carbon.

To Prevent Corrosion of Iron.—Mr. Neil McHaffie, of Glasgow, has patented the following process, and claims that "wrought-iron thus prepared, and without being coated or painted, on being immersed for a length of time in sea-water, is found to be free from shell-fish or marine animals, and also in a great degree free from corroson." He surrounds the iron with oxyd of iron or manganese or zinc, heats the whole to a full red heat, and keeps it hot for many hours, cooling it gradually.

There are a mile and a half of iron-clads now laid up in the Delaware River, at League Island—a mile and a half of warships whose ports are closed, whose guns are silent, from whose escape pipes no steam curls upward to the air. These vessels, which have done the country so much service, are practically dismantled, and left to rest in peace until they are again needed.

The Great Branches of Labor.—The great American branches of labor are as follows: Blacksmiths, 112,357; Carpenters, 252,958; Clerks, 184,485; Farmers, 2,423,895; Farm hands, 785,679; Laborers, 969,301; Miners, 147,750; Shoemakers, 164,680; Servants, 559,908; Tailors, 101,808; Teachers, 110,469.

Improved Iron.—We see in the London *Builder* a statement from a New York paper that Mr. J. D. Williams, of Pittsburgh, Penn., has made a sample of iron that bears 166,700 pounds per square inch, tensile strain. We have not seen any mention of the matter in any American journal.

MINING AND SCIENTIFIC PRESS

PATENT AGENCY.

For the Pacific Coast.

Office of the Mining and Scientific Press—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The Patent Law Amendment Act, of March 4th, 1861, and March 3d, 1863, now in force, introduces several important changes in our Patent System. The general practice of the Patent Office, however, in regard to the examination and issue of Letters Patent for new inventions, remains nearly the same as heretofore.

The amendment of 3d March, 1863, provides, in section 3, that every patent shall be dated as of a day not later than six months after the time at which it was passed and allowed, and notice thereof sent to the applicant or his agent. And if the final fee for such patent be not paid within the said six months, the patent shall be witheld, and the invention therein described shall become public property as against the applicant therefor: *Provided*, That in all cases where patents have been allowed previous to the passage of this act, the said six months shall be reckoned from the date of such passage.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The office secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against citizens of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues. If the application is rejected we a cause thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination we have access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequaled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, as may be required; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first instalment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the owner.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc., and our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 yrs and 6 mos... $10
On every application for a design, for seven years... 15
On every application for a design, for fourteen years... 30
On every application for a patent, for seventeen years... 15
On every caveat... 10
On issuing each original patent... 20
On filing a disclaimer... 10
On every application for a re-issue... 30
On every additional patent granted on a re-issue... 30
On every application for an extension... 50
On the grant of every extension... 50
On appeal to the Commissioner from Examiners-in-chief 20
On every appeal to the Judges of Circuit Court, D. C... 25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, No. 505 Clay street, corner of Sansome, San Francisco.

Hot-Air Engine.—MM. Burdin and Bourget have presented for the opinion of the Academy of Science of France a plan of hot-air engine, from which they believe an economy of at least one-half the fuel may be obtained, and which they desire to construct and experiment upon at the expense of the Government. The plan has simplicity at least. "Let there be an ordinary furnace, such as is used for steam engine boilers, the products of combustion of which escape into the chimney, after descending along an inclined pluns. Let the atmospheric air be first compressed to two atmospheres in small parallel tubes lodged in the fine, the air entering at the lowest point, and consequently rising." Then follows a very rational calculation of the length and diameter of the tubes necessary, and a more complicated account of the engine. The theory is excellent; if it should succeed in practice we will return to it.

Raising of the U. S. Frigate Cononess—A Great Mechanical Feat.—The wreck of the frigate Congress, which was sunk in Hampton Roads during the encounter with the rebel ram Merrimac, about four years ago, having been raised now lies at the Norfolk (Va.) Navy Yard. She sunk in about 30 feet of water and the men who have been employed in the raising worked with 20 or 30 feet of water over their heads. The wreck was laden with large tanks full of water, cables, anchors, hundreds of barrels of provisions, large quantities of powder, shot and shell, in her forward magazins, and in addition her decks were occupied by many bushels of oysters. The action of the tide had filled her almost up to the top with sand.

The divers commenced their operations upon her by carrying off the ragged and torn timbers at the point where she was blown in two, and having made them square, built a complete bulkhead, closing up entirely the end of the ship, and making it tight—working all this while under water. The water was then taken from her by steam pumps, and the great ship rose to the surface. The contents of her hold are now being removed, and already over 100 tons of chain cable have been taken from the wreck. The contractors for raising the vessel will make a profitable job of it.

Pronuction of Steel.—The proceedings o the Franklin Institute notice a process for the production of steel directly from the ore, proposed by Mr. G. Hand Smith, of Philadelphia. Pure oxide of iron, such as the magnetic oxide, for example, is crushed, washed, and packed in layers alternating with charcoal in the ordinary cementing furnaces; after heating, a porous mass is obtained, which may then be rolled into plates.

Trevithick invented and built the first English locomotive that worked on a railway; and Roberts was the first to build a locomotive with such mechanical skill that it could work without enormous cost for repairs.

Square Cannon Balls.—The Emperor Napoleon has ordered trials to be made with a new square-mouthed gun, which has been invented by an officer of the French navy.

Steam engines to the value of £990,671 were exported from Great Britain during the first six months of this year, as against £733,155 in the same period of last year.

The immortal old frigate Constitution, on her recent voyage from Newport to Annapolis, notwithstanding her age, passed everything on her route, going at the rate of thirteen and a half knots an hour, and acted as though she would like to have another bout with her old foes.

Plumbago.—The Dayton *Tribune* has seen a beautiful specimen of pure graphite taken from a well-defined ledge four feet thick and encased in the hardest of granite, twelve miles below Dayton, on the Carsou. The specimen cuts and writes equal to that in Faber's best, and was taken out at three feet from the surface.

Mining and Scientific Press.

W. E. EWER, ... SENIOR EDITOR.

C. W. M. SMITH. W. E. EWER. A. T. DEWEY.

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It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides and the evidence of any error which may appear will be received in friendship and treated with respect.

American and Foreign Patents.—Letters Patent for Inventions can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For references, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the credit system.

San Francisco:

Saturday Morning, Dec. 2, 1865.

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DEWEY & CO.,
Publishers and Job Printers,
Office Mining and Scientific Press, San Francisco.

VIEWS OF PRACTICAL MINERS---THE ANCIENT GRAVEL BEDS OF CALIFORNIA.

We clip the following interesting and suggestive article from the Sonora *Herald*, in which paper it appears as a communication over the signature of "S. B.":

As a practical miner, I have often been led to wonder why it was that there has not been some mode adopted for a more free interchange of opinion between the geological corps in the employ of the State on the one hand, and the intelligent portion of that class of citizens on the other, that are engaged in bringing to light the hidden mysteries of the earth's interior. The common miner occasionally meets with existing facts, which are quite likely to escape the knowledge of the geological corps, which if known to them might throw a fund of light upon mooted questions in geology.

That most of the Placer gold of California was once, or is now, included in the debris of an ancient drift, extending the length of the region of the placer mines, is a fact perhaps known to the common reader of the journals of the day. Now, it may fairly be held that questions touching the age of that drift do not effect the question of the existence of gold within it, or the probable amount; but in the interest of science it is of immense importance that its geological age should be established.

Immediately above the auriferous gravel which forms the underlying portion of this drift, is a sedimentary formation, the cretaceous appearance of which, in many places, seems to stamp it as identical with the chalk series; yet its fossil botany (exhibiting as it does dicotyledonous plants of the present order) indicates that it is one of the more recent of the tertiary formations. Notwithstanding the fact of its tertiary character, however, there are facts within the knowledge of the miner, that stamps the period of this drift as being anterior to the time when this region was inhabited by that huge species of mammalia known as the mastadon. The whole region of the placer mines was once covered by a drift from the north, running at right angles to, and in disregard of, the present course of our mountain streams. The drift was at least fifty miles wide, and therefore must have been the deposit of an oceanic current; since which time the western slope of the Sierras has been gradually raised, until now the central portion of the drift is about two thousand feet above the level of the sea, and exhibits a dip to the westward. The raising of this plateau above the water level, and the immense elevation of its eastern margin, has given the water passing over it immense denuding power, and has caused the stream to cut deep gorges, and has carried toward the sea much of the debris of the drift, leaving the gold it contained in the beds of the streams. These gorges are frequently cut deep into the rocky crust of the earth, hundreds of feet below the bed of the drift, exposing a bluff composed of the varied quantities [classes?] of hypogeneous rocks, of which primary limestone is the one I propose to notice. The drainage thus afforded has had the effect to establish springs along the margin of the bluffs, and where it flowed from limestone, coming (as water flowing from limestone always does) charged with lime, this lime is precipitated when exposed to the absorption of atmospheric oxygen, forming travertine or calcareous tufa, immense depositions of which are now going on along the bluffs of some of our mountain streams. The springs that I have described were the most accessible points for the wild animals inhabiting the region to obtain drink; and here the bones of the elk, the Indian, and the mastadon are found buried beneath the travertine beds that I have described; while high on the hill above the miner is disemboweling the ancient drift—tertiary though it be.

Near Gold Springs, and also near Springfield, both in this county, are large deposits of this travertine, from which numerous bones of the Indian, as well as the mastadon, have been exhumed. Why should our savans ransack Europe, and be left in ignorance of facts that can be demonstrated at our very doors?

REMARKS.

We have often wondered at the fact, that the intelligent, practical miners, who are so frequently met with among the hills and gulches of the Pacific slope, do not oftener communicate to the public their observations, and more freely interchange opinions with regard to the great interest of mining in which we are all so deeply interested. We have often been both interested and instructed by conversations with intelligent, practical miners, and can bear evidence with the writer above quoted, to the fact that observing miners, who have never made the science of geology a study, except so far as they have found it written out by the slow-moving finger of time, on the broad pages of Nature, often meet with important facts which have escaped the observation of the the scientific geologist. As we write, we have a case in point in our mind, where our present geological survey was, and one in which any survey, circumscribed in time and means as they are, would probably have been led widely astray, had it not have been for the accidental communication of the observations of a practical student of nature, who had examined a certain field more closely and leisurely than it would have been possible for the survey to have done. Other like cases, no doubt, exist in the history of this, and probably all similar scientific corps, which have ever been organized to examine a field already occupied by active industry.

It is always with pleasure that we receive the practical ideas and suggestions of our correspondents in the various fields of mining enterprise; and we know that we have the thanks of our numerous readers for placing such information before them. We also make it a point to note every thing of the kind which we find in the columns of our cotemporaries, and give such information the benefit of a wider and more extended circulation among miners throughout the State than any local paper can hope to attain.

It is much to be regretted that the State Geological Survey has not been so organized as to give at least a preliminary report upon the great auriferous drift which is made the subject of the article, which we give above, from the Sonora *Herald*. Although it may not be so important, in a scientific point of view, as have been the learned and undoubtedly valuable researches of the survey into the paleontology of the State, we are, nevertheless, fully of the opinion that even a mere superficial examination of this interesting field of research, with a carefully-written report, would have proven of so much practical value as to have placed the survey at once upon such a high altitude of popular appreciation as to have secured for it all that could have reasonably been asked in the way of legislative appropriation for its future progress.

By far the largest portion of the placer gold that is now taken out in the State, is obtained from this remarkable deposit, which must at one time have been spread over almost or quite the entire western flank of the Sierra Nevada, extending from the extreme southern portion of Tulare county on the south, to Shasta on the north, and from the foot-hills to the very summit of the Sierras. It has long been known that much of the southern portion of this drift has been covered, to a greater or less depth, with volcanic debris, of which Table Mountain, near Sonora, is a most noted example; and more latterly the same has also been found true of its northern extremity. The plateau of the Sierra Nevada, or high table-land of Plumas and the eastern part of Shasta, we are told, is covered with a volcanic deposit, which has buried the golden sands of the ancient drift still deeper in places than they are found beneath Table Mountain,—so deep, that the miners can reach it in a few places only, where the streams have cut through this debris to the underlying rock, upon which the auriferous deposit rests. In all the intermediate region we also see, at frequent intervals, immense masses of volcanic ash, in what is known to the miners under the general name of cement and pipe-clay, reminding us of the immensity of the volcanic action which has, at a comparatively recent period, wrought such changes in the topography of the entire State.

This ancient drift deposit, which has supplied the greater part of the gold which has been, and still continues to be, taken out of our rivers and gulches, covers probably 1,000 or 1,500 square miles of territory—not a twentieth part of which has yet been even prospected! The chief part of the gold found in this deposit lays upon the bed-rock, and more abundantly in broad channels or narrower ancient river courses. The broader channels, seemingly, partake something of the bayous or feeders to the more direct and continuous river beds. The country through which these rivers ran was, probably, at first quite level. Their fall, very likely, was gradually increased by the slow subsidence of the present Pacific Ocean shore, rather than by the upheaval of the Sierra Nevada, as "S. B." of the Sonora *Herald*, seems to think. For the elevation of that range was due probably more to contractive than upheaval forces.

But it was not our intention, at this time, to theorize upon the matter. It was rather our design to call attention to its magnitude and importance as a field of research, in connection with California's great leading industry. A topographical and geological mapping out of this region, giving the relative bearings and bed-rock elevation and depression of the different points already explored, with the directions of the secondary drift movements, etc., could not fail to be of vast service to miners and prospectors in their search after the precious metals.

It is to the deep diggings in this drift that we are hereafter to look for, perhaps, nine-tenths of all our placer gold. If this field of exploration is outside of the limits of that of the present survey, the State, in our opinion, could not do a greater service to the mining and to the public interest at large, than to appoint a special survey for this specific purpose.

We should like to hear from some of our mining friends upon this subject. There are a large number of intelligent, practical miners engaged in this class of mining. Their opinions with regard to the probable utility of such an outlay would, at least, be interesting. Would it, or would it not, *pay*—aside from its scientific aspect? Our own impressions are that it would. What say you, men of the hydraulic hose!

MINING EXPERIMENT.—Mr. Stiles, of Nevada is trying an interesting experiment at his mill in that city. He has substituted *granite* shoes in one of his pans, instead of iron, and intends to thoroughly test the relative economy and efficiency of the two materials for such use. It is claimed by many experienced miners that stone is much superior to iron.

PAYING WITNESSES.—A number of sailors, who had been detained as witnesses against the captain of the whaling bark Mercury, were, last week paid for their time, at the rate of one dollar per day, by United States Marshal Rand, in accordance with an order of the United States District Court, issued by Judge Hoffman.

THE RAIN FALL FOR NOVEMBER.—We believe the month of November just passed, has witnessed the largest fall of rain throughout the State, of any other month since a correct record has been kept, with the single exception of November, 1861, when a fraction over 17 inches fell, according to records kept in Grass Valley and Nevada. The fall for the present year has been reported as follows, in the localities named:

	INCHES.
San Francisco	2.67
Healdsburg	10 00
Grass Valley	11 97
Nevada City	12.79

The late storm appears to have been much more severe in the northern portion of the State, than in the central or southern; for while the upper Sacramento and Feather rivers rose to a greater hight than they have attained for several years, the Yuba and American, and other rivers further south, were less affected than has heretofore been the case.

It is to be regretted that records are not more generally kept throughout the State, so that the inequalities of the rain fall in the various sections may be more fully noticed. The Oakland *News* expresses the opinion that more rain falls in that neighborhood than in San Francisco, and regrets that no one there has a "rain guage," by which the fall may be tested. If our cotemporary will procure a common tin lard can—the deeper the better—and place it in an open situation, at a distance from any house or tree, where the rain can fall into it unobstructedly, he will have a "rain guage" which will answer a very good purpose, where no better can be had. We have kept such a guage, and found that by carefully measuring the water which fell into it, we kept exceedingly close tally with a regularly constructed instrument. A strip of glass graduated to eigbths of an inch, and set into a removed section of the side of such a vessel, will greatly facilitate the measurement of the rain fall.

THE RUSSO-AMERICAN TELEGRAPH.—The Russo-American Telegraph fleet, which, aided by a land force, has been engaged during the past summer in exploring the northwestern coast of this continent, and seeking out a track across the narrow strip of ocean, just south of Behrings Straits, for the proposed telegraph which is to place Europe, Asia and America in direct electric communication, is now at anchor in the harbor of San Francisco. The entire fleet consists of five vessels, viz: the steamer Gen. S. Wright, the barques Golden Gate, Clara Bell, Palmetto, and the schooner Milton Badger, all of which are now in this port, where they will remain until spring. The two first mentioned arrived here on Thursday; the Golden Gate is the flag-ship of the fleet; she is commanded by Capt. C. M. Scammon, of the U. S. Revenue Service, and by especial authority from the Secretary of the Treasury, is permited to bear the revenue flag while engaged in this service. The expedition, during the summer, has accomplished all that could have been desired in furthering the great enterprise in which it is engaged, great energy has been displayed, much progress made, and a large amount of information gathered, of especial value to the company and of no little importance to the cause of science. Col. Bulkley, the Chief of the expedition, arrived on the George S. Wright.

INSURANCE AGAINST ACCIDENTS.—This particularly new feature in the American Insurance business seems to meet with popular success. Its benefits are so self-evident that we are not surprised at the fact. The NEW YORK OCCIDENTAL INSURANCE COMPANY insure against death or injury by accident. In case of disablement a weekly compensation is provided, and in the event of a fatal injury, a fixed sum is secured to the family of the assured. The rates of premium are light, and within the reach of all prudent-minded individuals of all classes. Messrs. Bigelow Brothers, corner of Montgomery and Sacramento streets, will receive applications for policies, and politely furnish any further information that may be desired about this class of insurance.

THE CALIFORNIA OIL INTEREST.

It is stated that there are now in California about seventy-five associations organized and actively engaged in exploring for oil, with an aggregate capital of $50,000,000. Some thirty-three of this number are located in Humboldt county, about twelve in Colusi, and the balance scattered through other counties, on both sides of the coast range, and extending as far south as Los Angeles county. The chief interest appears to center in Humboldt county, where the largest number of wells is in progress, and where the highest natural grade of oil is produced; although the most copious natural flow and the best surface indications generally, are found in the counties south of San Francisco.

We understand that six barrels of oil were pumped from the Lexington well, on Wednesday last, the accumulation, we suppose, of several days, and yet the oil was not exhausted. That well is now 425 feet deep. The collector of the second district, in which this well is located, reports that 191 barrels of petroleum, of 45 gallons each, were produced from the various wells in that district during the month of October. We have nothing definite of late, from any other wells to the south of this city.

From the Humboldt *Times* we learn that in the

MATTOLE DISTRICT

The Mattole Creek Company are just starting their well. The Petroleum Company are putting in new pipe, preparatory to pumping out the oil which they have struck in considerable quantities. The Joel's Flat Company, better known as "Noble's well," have oil in paying quantity and are preparing to put in their new pump. They are down 270 feet. The Brown & Knowles Company are progressing well, and have good indications.

The Yosemite, in Upper Mattole, is just commencing to work with machinery. The Sacramento, on Conklin creek, is in progress; the Buckeye, on the same stream, has a shaft sunk and machinery nearly ready to commence boring. In digging the shaft they cut oil for a great portion of the distance down. The Jeffrey well, down 240 feet, has flattering prospects; the Sutter & Allen wells on McNutt gulch, four in number, are looking finely.

The Comet, located on Langdon's creek, is down sixty feet, and has abundant evidence of oil. The Irwin Davis well, on the North Fork of Mattole, is 250 feet deep. The Knowlee well is down about ninety feet. The Mattole Petroleum Company, (McNeirs') east of Joel's Flat, at 170 feet depth has a fine prospect of oil.

The Union Mattole Co.'s wells, three in number, are in depth respectively as follows: Number one, 135 feet, from which they are taking about 100 gallons of oil daily; number two, 167 feet, has oil in small quantity; number three, twenty feet deep. The Paragon, adjoining the Union Mattole, next above, has reached the depth of about ninety feet and affords every promise of success.

BEAR RIVER DISTRICT.

The Hawley Company are down 210 feet, with good indications; Webster Company, down 125 feet, and doing well; Dick Johnson Company are down 100 feet, with indications sufficient to justify the expectation of striking pay oil at any moment; Jennings Company on Oil Creek, are commencing operations again with a new drill of the Fargo pateat—prospects good; Elk Horn Company is now sinking a shaft—already down 78 feet; Wm. H. Smith, on the Cassin Farm, 270 feet; the Fortuna, on the Webster Farm, 130; Kirk's, on the Richard Johnson Farm, 100 feet; the Jenning's, eighty-five feet, and the Oil Creek Company's well, one hundred and seventy feet. The last two are each about commencing another well. All the above named companies in the Bear River District have every encouragement that success will ultimately reward their labors. The *Times* learns that the Union Mattole Company has about one hundred barrels of oil on hand at Centreville and at the well.

"THE LIGHTNING DISENGAGING EYE."—Last Saturday there were several successful experimente made with this novel and useful invention under the direction of the inventor, Mr. Samuel Brown, on board the United States steam revenue cutter Shubrick, Capt. Andrews, in presence of a large number of scientific men and members of the press. All who were present expressed their unreserved satisfaction with regard to its success, and its value for the purpose for which it was designed. At first the invention was attached to the cutter (small boat) fore and aft, secured to the keelson, having cords attached to the levers, which disengaged the "eyes," by means of a ring in the center of the boat. The lower hook of an ordinary bont tackle was inserted in these eyes, the Shubrick placed under a full head of steam, the cutter lowered near the water, and at a given signal by Lieut. Metcalf, the ring was lifted, when the little craft dropped into the water along the steamer's side, gracefully cutting the water and shooting far ahead as if striving to out-do the speed of the steamer itself. Again, the eyes were taken from the keelson of the cutter, and attached, as in the ordinary way, to the tackle, and the boat lowered and dropped into the water with the same signal results as before described. The Shubrick steamed up, passing the shipping in the harbor, Mr. Brown making several launches amidst the salvos and clapping of hands by shipmasters and others congregated to witness its effect.

The inventor has applied for letters patent through the MINING AND SCIENTIFIC PATENT AGENCY, and has assigned one-half interest in his invention to Mr. Leon Level, a gentleman well known in our midst as one who accomplishes whatever he undertakes to perform. Mr. Level sailed in the last steamer for the East to place this inveation before ship-owners in the Atlantic States.

A further and still more practical test of this inveation was given upon the departure of the steamship Golden City on Thursday last. A boat belonging to the Shubrick was attached to the Golden City by means of Brown & Level's patent detaching apparatus. When off Meigg's wharf, and the steamship was under full speed, Capt. Bradbury gave the word of command, when the boat was instantaneously lowered and detached without the slightest difficulty or danger.

WASHOE MINING ASSOCIATION.—This association, the preliminary steps to the formation of which we have already noticed, was fully organized on Monday evening last, by the adoption of a Constitution and By-laws, and the election of the following officers for the first term of its existence: President, P. L. Buckminster, of the Imperial. Vice President, John B. Winters, of the Yellow Jacket. Secretary, L. B. Hastings, of the Savage. Treasurer, J. A. Ralston, of the Bank of California. Surveyor and Mineralogist, Mr. Stutch. Directors, Louis Janin, of the Gould and Curry; Wm. Blanding, of the Ophir; Thomas G. Taylor, of the Crown Point. The association is made up of the superintendents of the various mines in Storey county, Nevada. The movement is a most excellent one, and should be imitated in every important mining district on the coast.

READINGS.—A few evenings since, in company with some friends, we listened to a short series of readings, from several authors, by Mrs. Weaver, wife of Rev. A. J. Weaver, of this city, which, for compass of voice and inimitable style of execution, is scarcely surpassed by first-class public readers. Her recitation of "Hiawatha," by Longfellow, and "Floyd Ireson," by Whittier, fully expressed the meaning and ideality of the characters of the different actors in these persons. We understand that Mrs. Weaver intends soon to give the people of Stockton a chance to hear her read in public

ALTITUDES IN PLUMAS COUNTY.—The *Union* says Quincy is above the level of the sea 3,178 feet; Meadow Valley, 3,701; summit between Meadow Valley and Buck's Ranch, 5,328; Buck's Ranch, 4,998.

LIST OF OFFICERS OF MINING COMPANIES AND INCORPORATIONS.

[PUBLISHED IN THE FIRST ISSUE OF EACH MONTH.]

[Below we give the date of recent meetings held in this city and the names of officers chosen or appointed. Every business company is invited to send us the result of their election, to be thus put on record, gratuitously, with any other facts of general interest.]

COLORADO M. & M. Co.—November 13th. Trustees: Charles McCormick, A. J. Coffee, G. M. Burnham. President, A. J. Coffee; Secretary, G. M. Burnham; Treasurer, G. M. Burnham.

CONFIDENCE SILVER M. Co.—November 15th. Trustees: J. Greenebaum, Wm. Surryhne, S. B. Whipple, J. E. Clark, Edward Barron. President, J. Greenebaum; Vice President, S. B. Whipple; Secretary, R. Wegener; Treasurer, Agency Bank of California; Superintendent, John Nelson.

FLORIDA G. & S. M.—Nov. 1st. Trustees: John C. Morrison, Jr., A. J. Bryant, F. W. Crosby, G. S. Bradley, Albert Miller. President, John C. Morrison, Jr.; Secretary, John Gorman; Treasurer, John Gorman; Superintendent, George T. Terry.

GOLD CANON CONS. M. Co.—Nov 15th. Trustees: A. C. Whitcomb, Isaac Glazier, Edward J. Pringle, Andrew E. Thayer, and J. W. Stephenson. President, A. C. Whitcomb; Secretary, Josiah H. Applegate; Bankers, Tallant & Co.; Superintendent, John Rule.

LADY BELL M. Co.—Nov. 23d. Trustees: D. A. Macdonald, S. Williams, J. McNerny, J. McGill, Jno. W. Farren. President, J. McGill; Secretary, C. Heywood; Treasurer, D. A. Macdonald.

SANTIAGO M. Co.—Nov. 28th. Trustees: S. Heydenfeldt, L. Maynard, W. E. Barror, A. E. C. Peachey, Chas. Mayne. Secretary, S. Heydenfeldt.

TRIUNFO G. & S. M. Co.—September 6th. Trustees: Edw. P. Flint, Geo. L. Keuny, C. S. Capp, Jas. W. Towne, Geo. C. Potter. President, Edw. P. Flint; Secretary, Edw. Quackenbush, 24 Government House.

YANKEE BLADE M. Co.—November 22d. Trustees: J. P. Greenman, W. H. Forbes, W. T. Atwood, D. E. Avery, W. P. Prichard. Secretary, H. B. Forester.

RECENT INCORPORATIONS.

OCEAN VIEW PETROLEUM Co., State of Cal. Nov. 1st. Trustees: Emil Grisar, Adolph Wapler, Spencer W. Clark, Oscar Steinbach, Frederic Lewis.

HAYWARD PETROLEUM Co., Santa Barbara Co., Cal.—Nov. 7th. Trustees: George H. Wheeler, Wm. O. Mills, A. I. Easton, A. N Coleman, A. Hayward.

PACIFIC CONGRESS SPRINGS, Santa Clara Co., Cal.—Nov. 9th. Trustees: O. P. Griffin, A. I. Easton, W. G. Graham, Samuel Knight, A. Hayward.

MOUNTAIN PETROLEUM Co., San Fernando District, Los Angeles Co., Cal.—Nov. 24th. Trustees: Thom Coles, G. C. Clarke, James Walsh.

MISSION CREEK NAVIGATION Co., San Francisco. Nov. 21st.—Trustees: Donald McLennan, Henry Keyser, Claus Spreckels, John Center, I. N. Thorne.

THE PROPOSED MINERS' CONVENTION.—In accordance with the suggestion of some of the more captious of our cotemporaries, who give various (disinterested?) reasons for not accepting the time and place suggested by us for holding the proposed Miners' Convention, we have referred the matter of the "Call" to the association lately organized in this City and known as the "Mining Bureau." That body, we presume, will carefully consider the question, and issue a call for the assembling of a convention when and where, in their judgment, it may seem best. If they act in the matter, and we trust they will do so, we shall heartily and earnestly urge the meeting of the miners as they may suggest. We look upon an early meeting in convention, of the miners of this State, for the consideration of the general welfare of those who represent that industry as a matter of the utmost importance, and shall do whatever lays in our power to bring it about and make it a success.

FAMILY LAUNDRY BOOK.—This is a convenient memoranda book for the purpose indicated by its title. Published by A. N. Rood & Co., price twenty-five cents.

QUINCY HALL continues to sell a large share of the best and most fashionable clothing disposed of by the trade in this city.

What "They Say" of the Mining and Scientific Press.

Prof. J. D. Whitney's address on Mining, is given entire. * * * We preserve the Press, and would like to have a full file.—[Napa Reporter.

The public should support the enterprise of the MINING PRESS, one of the best papers in the State, by a liberal patronage, as it is only by a system of legitimate reports that our mines can be favorably brought before men of capital below.—[Calaveras Chronicle.

Under the management of Messrs. Dewey & Co., the Press has been much improved in every respect. * * It deserves a liberal support.—[Virginia Union.

A good paper for this country.—[Humboldt Register, Nev.

Those who would have a good paper of this character, should subscribe now.—[Marysville Appeal.

It embraces one of the finest fields in the world, and seems to improve it. * * * It will be second to no scientific record now published on this continent.—[Los Angeles News.

A neat and useful journal. One of the most presentable and useful in the State.—[Sunday Mercury.

Such a journal has been needed on the Pacific Coast. The Press fills the bill.—[Reese River Reveille.

A splendid paper, and should have a good list of subscribers in prosperous Grass Valley.—[G. V. National.

We receive, regularly as clock work, this exceedingly valuable and interesting journal.—[Napa Reporter.

Interesting and important to miners and Mountain men.—[Butte Record.

The publishers intend to make it the "Scientific American" of the Pacific Coast. Every miner should have a copy of it in his cabin, for it will be filled with useful information as to pick and shovel fraternity.—[Trinity Journal.

Should be taken by every man owning "feet" [and brains] in this State.—[Beacon.

In no other ten journals can the reader find the same amount of reliable mining news as in the PRESS.—[Contra Costa Gazette.

Every stockholder in different mines will find it will pay to take and read this mining journal.—[Contra Costa Gazette.

The PRESS is to the Pacific Coast what the "Scientific American" is on the Atlantic. It deserves its success.—[Aurora Daily Times.

It is fully up to the times, and furnishes the latest mining improvements and intelligence.—[Calaveras Chronicle.

Every miner should subscribe for the PRESS.—[Calaveras Chronicle.

It presents a channel through which all mining notices may be cheaply consolidated into one sheet for the convenience of all stockholders.—[Mountain Messenger.

We can give our testimony that it is always replete with useful and valuable information to miners and mechanics.—[Placer Herald.

ENGRAVED TO ORDER.—Persons who desire to illustrate their individual establishments or business, should give us their orders for Engraving and Printing, and we will guarantee good work and reasonable prices.

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MINING ENGINEER,

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lly22qy

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Blanks for Mining Companies, Secretaries, Shareholders and others, always on hand, or printed to order, at our office.

Among others are those of the following forms:

Shareholder's Proxy.

Know all men by these presents, that I, ... do hereby constitute and appoint ..... my attorney and agent, for me and in my name, to vote as my proxy, at a meeting of the ..... Mining Company, to be held ..... 186 , according to the number of votes that I should be entitled to cast were I there personally present.

In witness whereof I have this day hereunto set my hand and seal. .....[Seal]

Dated 186

Assessment Notice.

..... Company

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the ..th day of ..... 186 , an Assessment of .....per share was levied upon the Capital Stock of said Company, payable on the ..th day of .....186 , in United States gold and silver coin to the Secretary.

Any stock on which said Assessment shall remain unpaid on Saturday, the ..th day of ....., 186 , will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on ....., the ..th day of ....., 186 , to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees.

.....Secretary.

Office.....

NOTICE.—There are delinquent, upon the following described Stock, on account of assessment levied on the ..th day of ..... 186 , the several amounts set opposite the names of the respective shareholders as follows, to wit:

Names.	No. Certificate.	No. Shares.	Amount.
Theophilus Thisllo	23	14	$140 00
Peter Pipe	2	3	30 00

And in accordance with law and an order of the Board of Trustees, made on the ..th day of ....., 186 , so many shares of each parcel of said stock as may be necessary, will be sold at the.....
....., on ....., the ..th day of ....., 186 , at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

.....Secretary.

Office.....

☞ Our advertisers are furnished with blank Assessment Sale notices free of charge. Orders from the interior promptly filled, by mail or express, as may be desired.

GUNPOWDER.—Mr. L. Ehrhardt, of Bayswater, proposes to take about equal parts of tannic-gallic acid or resin, or chlorate or nitrate of potash finely powdered; these ingredients when mixed together form a highly explosive compound, but taken separately are perfectly inexplosive and harmless; this mixture is well adapted for blasting purposes, and is not patented.

As pictures are slid into a magic lantern, and reflected upon a wall, so many people think God slides graces into the heart, and that man's life only reflects them. But graces are not interjected pictures. Their forms and colors are the substances of the heart.

To Delinquent Mining Companies.

We hereby give especial notice to the Secretaries, Trustees and Shareholders, of such Mining Companies as are owing us bills for advertising of OVER SIX MONTHS STANDING, that we shall commence action, according to law, to collect the amounts due, if the same are not immediately settled.

DEWEY & CO.,
Office Mining and Scientific Press, Nov. 25, 1865.

Notice.—The interest of E. D. Waters, Jr., in the job printing firm of Dewey, Waters & Co., has been purchased by A. T. Dewey. The business of the late firm will be continued under the title of "MINING AND SCIENTIFIC PRESS JOB PRINTING OFFICE."

San Francisco, November 18, 1865.

Deserved Testimonial.

GRIZZLY FLAT, Oct. 18, 1865.

MESSRS. HEWGERFORD & HENLY—*Gentlemen:* We have run your Concentrator for several days past, in our 5-stamp Mill, and, as far as can be ascertained at present, it is a perfect success. When running at the rate of from two hundred and ten to two hundred and twenty-five revolutions per minute, we have lost neither quicksilver nor sulphurets. Formerly, when using copperplate riffles and blankets, we found that in spite of the utmost precaution, quicksilver would escape over them all. Wishing you all success, we remain Your obedient servants,

E. A. BIGLER.
17v11qy S. F. DAVIS.

Metallurgy.

EUROPEAN METALLURGICAL WORKS,
—AND—
Practical Mining School,
Bryant Street, Between Third and Fourth,
SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. KIMBALL, J. R. MURPHY.
10v10

G. KUSTEL,
Metallurgist and Mining Engineer,
Stevenson House, corner Montgomery and California sts.
Ores Analyzed,
Advice given, and Plans Furnished for working of different Ores. Mines examined and reported upon.
20v11-3m

BOALT & STETEFELDT,
Metallurgists and Mining Engineers
AUSTIN, NEVADA.
Western Branch of ADELBERG & RAYMOND, No. 90 Broadway, New York. 11v11

FIRST PREMIUM
FOR REFINING COAL OIL,
At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist. Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,
17v10 643 Third Street, bet. Brannan and Townsend.

SANTA CLARA COLLEGE, S. J.,
SANTA CLARA, CAL.
Conducted by the Fathers of the Society of Jesus.

The FIFTEENTH ANNUAL SESSION of this College will commence on

Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $350

For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco.

3v11 REV. A. MASNATA, S. J., President.

Professional Cards.

Our Patent Agency.

The PATENT AGENCY of the MINING AND SCIENTIFIC PRESS has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of LETTERS PATENT from the United States and foreign Governments cannot be over-rated, and the Proprietors of the Press, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

WM. L. DUNCAN,
Stock Broker,
Member of the San Francisco Stock and Exchange Board,
No. 605 Montgomery Street, San Francisco

Mining Shares and Legal Tender Notes bought and sold strictly on commission. Liberal cash advances made on stocks consigned for sale. 1v11-3m

S. C. BUGBEE & SON,
ARCHITECTS.
DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.
74 and 75 Montgomery Block
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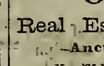
FREDERICK MANSELL,
Mechanical & Architectural Draughtsman,
No. 422 California street, corner of Leidsdorff.

Drawings of MODELS made for parties applying for patents at Washington or London. mar23-tf

JAMES M. TAYLOR,
Attorney and Counsellor at Law,
COURT COMMISSIONER, appointed by the Fourth District Court, COMMISSIONER OF DEEDS for Nevada and Massachusetts,
Court Block, San Francisco.
Entrances opposite City Hall, Merchant street, and 636 Clay street. 14v11tf

DR. H. AUSTIN,

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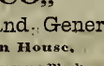
No. 634 Washington Street,
Between Montgomery and Kearny Streets
[OVER SAN FRANCISCO BATHS]
SAN FRANCISCO. 20v10-qy

OLNEY & CO.,
Real Estate, Stock, and General
—Auction & Commission House.
No. 626 Montgomery Street, Montgomery Block.
JAMES N. OLNEY—Auctioneer.

SECRETARIES of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

AUGUST KUNAST,
Stock Broker,
Member of the
San Francisco Stock and Exchange Board,
Buys and Sells Stocks, Bonds, Etc.
Office, No. 540 Washington Street, San Francisco. 2v10

G. F. DEETKEN,
Mining Engineer and Metallurgist,
Address - - - - - San Francisco. 25v9

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for the State of Nevada and the Territory of Arizona,
AND FOR THE
STATES OF MASSACHUSETTS AND MAINE.
Office, Montgomery Block, 626 Montgomery Street, 10v8-2m SAN FRANCISCO.

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Lithographer & Engraver,
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MINING STOCK CERTIFICATES LITHOGRAPHED IN MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

SHERMAN DAY,
Mining Engineer,
No. 56 Montgomery Block, San Francisco,
Will examine, survey and report upon mines, and constructs and advise concerning investments in mining property, or the machinery management and expenditures of mines.
22n

REMOVAL.
MONS. A. COULON,
Informs his patrons that he has removed his DRAWING SCHOOL from Pine street to
410 Kearny Street.
Drawing Classes in the Evening will take place as usual. DRAWINGS FOR PATENTS accurately and neatly done.
20v11-1m

A Business Compliment.

PETALUMA, Oct. 4, 1865.

MESSRS. DEWEY & CO.—Gentlemen: Your note informing me that my patent for Crushing and Baling Machine is ordered to issue is at hand. Please accept my thanks for the prompt and business like manner with which the case has been conducted, and inclosed find twenty dollars for balance Government fees. Respectfully, etc.

JACOB PRICE.

Trades and Manufactures.

Pacific Glass Works
Are now prepared to execute orders for the manufacture of
All Kinds of Bottles to Order.
Office, No. 621 Clay street, San Francisco. 3v11-3m

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PRINTERS,
Book-Binders, Paper-Rulers,
And Blank Book Manufacturers.
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Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers,
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(SUCCESSOR TO O. GORI)
MARBLE WORKS,
No. 408 Pine st. bet. Montgomery and Kearny, San Francisco.
Mantels, Monuments, Tombs, Plumbers' Slabs,
Etc., On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco.
Barstow's Metallic Burial Caskets and Cases.
1tf

THEODORE KALLENBERG,
Maker of Models for Inventors.
MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
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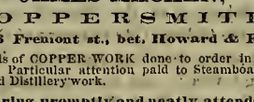
ARTIFICIAL LEG,
Manufactured in Philadelphia, Penn.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco, Cal. 10v8-1m



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No. 226 Fremont st., bet. Howard & Folsom.
All kinds of COPPER WORK done to order in the best manner. Particular attention paid to Steamboat, Sugar House and Distillery work.
Repairing promptly and neatly attended to.
13v11

Fire, Hydraulic and Suction Hose
And Leather Belting.
M. M. COOK & SON,
861 Battery Street, San Francisco,
Are now manufacturing as above, Fire, Hydraulic and Suction Hose, and Leather Belting, of any dimension and in any quantity which may be desired. Fire Hose and Belting constantly on hand or manufactured to order. Also Saddles and Horse Collars.

The subscribers would respectfully ask purchasers to call and examine their stock—also testimonials of the efficiency of their work from such as have used their hose both for fire and mining purposes. A diploma was awarded to us last year, by the Mechanics' Institute, of this city, and a silver medal this year. 12v11-1y

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C. E. COLLINS,
No. 602 Montgomery street, San Francisco.
EXCLUSIVE AGENT
—FOR THE—
AMERICAN WATCH FACTORY.
A large assortment of these
Superior Watches,
In Gold and Silver Cases,
Constantly on hand, and sold at Factory prices. Also,
ENGLISH AND SWISS WATCHES,
Imported directly from the Manufacturers.
The American Company are now making
VERY FINE WATCHES FOR LADIES.
☞ A large assortment of Gold Chains and Jewelry. 25v10-6m

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NEW YORK PRICES.

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most economical mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

Machinists and Foundries.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.

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Corner First and Mission streets,
SAN FRANCISCO.
ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Quartz Mills, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.

Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter. Also, Scott and Eckart's Adjustable Cut-off Regulator—best in use; W. R. Eckart's Balance Valve for Stationary Engines; Woodward's Patent Steam Pump and Fire Engine.

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Locomotive, Flue, Tubular, Upright, Cylinder and Cornish, and every variety of Boiler Work. All sizes of tubes and pipes for pumps.

Amalgamating Machinery.

Wheeler & Randall's improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Beldin's pan, Veatch's tubs, Prater's concentrators, Wahlee's pans, Beers' pan, German Barrels, Arastra Scrapins, Chile Mills, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

BLAKE'S PATENT QUARTZ CRUSHERS, of all sizes.

Oil Boring Tools and Machinery,

Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.

We have the facilities for working gold and silver quartz and other ores, to test their value, by the hundred weight or ton.

Russia Iron Screens, of all degrees of fineness and of all qualities of iron.

All work done in the best manner at the lowest cash prices.

21v10 **H. J. BOOTH & CO.**

Miners' Foundry
—AND—
MACHINE WORKS,
First St., between Howard and Folsom Streets,
SAN FRANCISCO.

EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as

Steam Engines and Boilers, Flour, Saw and Quartz Mills,
Machinery, Mining Pumps, Amalgamators,
Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.

All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.

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Vulcan Iron Works Company
[ESTABLISHED 1850.]
First, Natoma and Fremont Streets.

IRON FOUNDERS,
Steam Engine and Locomotive BUILDERS,
Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as

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Locomotives, Quartz Mills,
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Car Wheels, Saw Mills,
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Manufacturing Machinery of Every Kind.

Sole Manufacturers of
HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR.
BEATH'S AMALGAMATOR;
HESSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;
BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;
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JONVAL'S IMPROVED WATER WHEEL;
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STEVEN'S PISTON PACKING RINGS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.

Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

JOHN F. GALLAGHER, JOSEPH WEED.

GALLAGHER & WEED,
BRASS AND BELL FOUNDRY
And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to. Prices moderate. ☜

No. 125 First street, opposite Minna, next door to Pacific Foundry. 12tf

Removed from Oregon street, between Front and Davis.

CHEAP INDELIBLE INK.—The following is the recipe for the indelible black ink, for marking linen used in the Prussian military hospitals. One drachm of indigo in fine powder is dissolved in half an ounce of the strongest oil of vitrol (Nordhausen), which solution is diluted with half a pint of water, and digested with iron filings until the acid is saturated. The liquid, after pouring off from the remaining iron, is mixed with a decoction of four ounces of bruised galls, and two of ground logwood in a pint and a half of water, boiled down to one pint. Enough green vitrol is then added to make the ink black, and finally one ounce of gum arabic and half an ounce of sugar to give consistence.

A WOMAN in Ayr, Scotland, found in the centre of a potato a gold wedding ring, which the ambitious tuber must have inclosed in the process of growth.

OUR NEW YORK AGENCY.

Mr. GEO. M. NEWTH is our authorized agent in New York City, and will receive advertisements and subscriptions for the MINING AND SCIENTIFIC PRESS at regular rates. Sample copies of our weekly and monthly issues can be procured by calling upon him, at the office of the "STOCKHOLDER," **No. 72 William street.**

PHILADELPHIA AGENCY,

Parties wishing to subscribe or advertise in the MINING AND SCIENTIFIC PRESS can be accommodated by calling upon our Agent, Mr. TURNER HAMILTON, at the Assembly Building, 106 South Tenth street, Philadelphia, Pa., where samp copies of our publications can always be found.

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For Sale or Exchange.

The Proprietors of the MINING AND SCIENTIFIC PRESS have on hand a Half Medium Ruggles Engine Job Press, in condition good as new, which will be sold cheap, or exchanged for a good Hand-Press of medium or large size.

DEWEY & CO., Job Printers,
Office, 505 Clay street.

Mining and Scientific Press
JOB PRINTING OFFICE,

No. 505 Clay street, corner of Sansome.

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—OF—
STOCK
—FOR—
MINING
—AND—
PETROLEUM
Companies
Neatly Printed.

Stock Certificates of all kinds embellished with wood cuts and electrotypo engravings. We devote special attention to the execution of all kinds of work required by Mining Companies, Machinists and Manufacturers.

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Corner of Montgomery and Sutter streets,
SAN FRANCISCO.

S. ALSTROM AND G. S. JOHNSON, Prop'rs.

This elegant and commodious Hotel is situated on the principal promenade street of San Francisco. The Lick House is finished and furnished with a degree of beauty and excellence unsurpassed, combining all the modern applications and arrangements of a FIRST CLASS HOTEL, thus offering superior inducements to the traveling public. The proprietors assure their patrons that the Lick House shall not be excelled in any of its appointments, or in polite attendance or attention to all the comforts of its guests.
15v1t

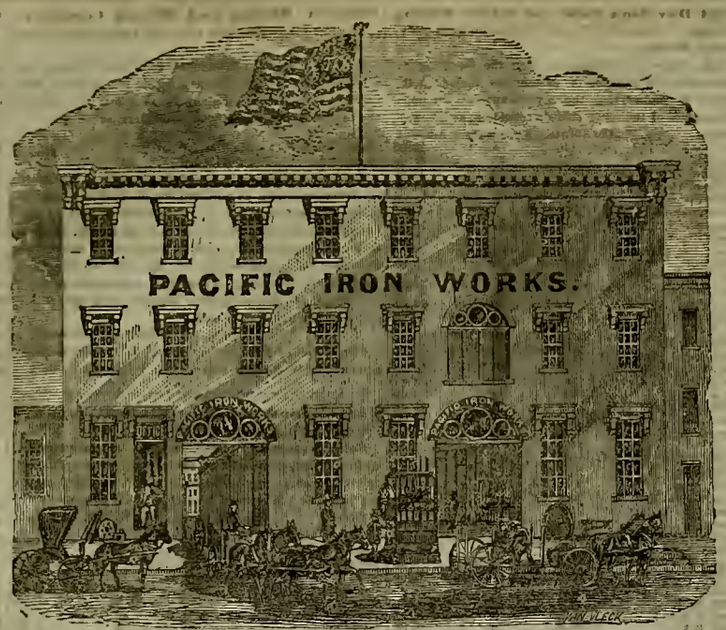
HENDY'S
IMPROVED BLOW-PIPE.
This Convenient Helpmeet
—TO THE—
ASSAYER, CHEMIST, DENTIST, JEWELLER, PROSPECTOR AND MILLMAN,

Can now be procured, at the Patentee's price, by sending your orders, by mail or otherwise, to the

Office of the Mining and Scientific Press.

This article was more fully mentioned in the PRESS of April 15th, 1865. Since that time, however, Mr. Hendy has made a further improvement by attaching a rubber hose between the mouth piece and the pipe, enabling the blower to change his position without disturbing the direction or constant accuracy of the current on the object upon which it is turned. The main portion of the blow-pipe is made with a joint, at which a valve is placed, which is opened when the operator blows and closed immediately when he ceases. By this arrangement the little bag or bladder is readily filled at a single breath, and with very little exertion. When so filled, a continous current of air is forced from the nozzle of the pipe by the more contractive force of the gutta percha. This force is uniform until the air is very nearly exhausted. The current may be easily varied or entirely cut off by gently pressing the fingers upon the neck of the bladder above the nipple to which it is attached.

Price, Complete.....$5.00.
CALL AND EXAMINE SAMPLES.
Sent by mail, if desired. Address
DEWEY & CO.,
16v10-tf **No. — Clay street, San Francisco.**



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The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting Machinery of the most approved construction. Flour, Saw, and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully Solicited.

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Having fully Complied with the Law by a Deposit of $525,000 Bonds of the State of California and the United States.

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POLICIES issued on Freights, Cargoes and Treasure from and to all parts of the World.

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That Have Stood the Test of Years,

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BIGELOW & BROTHER,
20v11tf **General Agents.**

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An editor and practical printer, of good experience and recommendation, desires a situation and will accept a moderate salary on trial. Address this office.

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MACHINE WORKS,

Nos. 109 and 111 Fremont street, near corner of Mission,
OPPOSITE MECHANICS' MILL,
SAN FRANCISCO.

STEAM ENGINE, FLOUR AND SAW MILL, And Quartz Machinery, Printing Presses,
—AND—
MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

☞Special attention paid to Repairing.☜ qy-3

UNION IRON WORKS,
Sacramento.

WILLIAMS, HEILBRON & CO.,
MANUFACTURERS OF
STEAM ENGINES, BOILERS,
And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Dunbar's Patent Self-Adjusting Steam Piston PACKING, for new and old Cylinders, manufactured to order.

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14v11 SACRAMENTO CITY.

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LEWIS COFFEY & RISDON,
Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

MITCHELL'S
COMBINED
FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with GALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.
San Francisco, Aug. 22d, 1865. 10v11-3m

CALL STABLE.

N. GISHWILLER

Would respectfully inform the public that he has opened a large and well-arranged LIVERY STABLE,

On B street, Summit City, Cal.,

(two doors below the Lake House), where good Saddle and Buggy Horses can be had at all times. Our charges will be reasonable, and we hope, by prompt attention, to merit a share of the public patronage. 10v11-3m

PALMER, KNOX & CO.,
Golden State Iron Works,

Nos. 19, 21, 23 and 25 First Street,
SAN FRANCISCO.

MANUFACTURE ALL KINDS OF
MACHINERY,
STEAM ENGINES AND QUARTZ MILLS
DUNBAR'S IMPROVED
Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S
NEW GRINDER AND AMALGAMATOR,
HEPBURN & PETERSON'S
AMALGAMATOR AND SEPARATOR,
Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,
WITH PALMER'S PATENT STEAM CHEST,
Superior for working either Gold or Silver Ores.
Genuine White Iron Stamp Shoes and Dies

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

FULTON
Foundry and Iron Works.

HINCKLEY & CO.,
MANUFACTURERS OF
STEAM ENGINES,
Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

SAN FRANCISCO
Foundry and Machine Works,

N. E. Cor. Fremont and Mission streets,

Manufacturers of
Marine and Stationery Engines!

Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.
—ALSO—
Wine, Cider, Cotton and Tobacco Presses of the latest Improved Patterns.

Brodie's Improved Patent WIND BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Bunx & Guiod's Amalgamator and Separator; W. W. Tupper's Patent Sectional Crate Bar; Coal Oil Well Boring Machinery complete, on hand.

STEAM ENGINES AND BOILERS,

Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.

MACHINERY, OF ALL DESCRIPTIONS,
Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates.
6v11-1y **DEVOE, DINSMORE & CO.**

Novelty Iron Works,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY.* Send for a Circular.

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PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,
BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, San Francisco. qy29-t

JOHN LOCHHEAD'S
STEAM ENGINE WORKS,

Beale Street, near Mission Street,
SAN FRANCISCO.

Steam Engines of every description built to order—Marine Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.
25v9q JOHN LOCHHEAD, Practical Engineer.

COMMERCE OF THE PLAINS.—The Leavenworth *Bulletin* says that more than 50,000,000 pounds of freight have been shipped from Leavenworth across the plains this year. This is only a small part of the vast stores sent from the various points on the Missouri river to the mines of Montana, South Boise, Colorado, and to Mexico and Salt Lake. The draught animals that started from Leavenworth amounted to 70,000 head of cattle, and 50,000 mules and horses.

A BIT OF TELLING PHILOSOPHY occurs in a late address by the eccentric George Francis Train, where he says:—"England comes here, takes our cotton, carries it from our seaboard on an English ship across the ocean, over an English railway thirty miles to Manchester, manufactures it by English capital, and brings it back on an English railway and an English Cunard steamer, to our shame, be it said, to clothe the Fenian Brotherhood of America!"

W. S. MCCORMICK, the inventor of the famous reaping machine now generally used in the Western prairies, and by which he made an immense fortune, died lately in the Illinois State Lunatic Asylum.

Calendars for 1866.—The MINING AND SCIENTIFIC PRESS Job PRINTING OFFICE is prepared to execute every manner of Counting-house Calendars and advertisements for various business men, on short notice and moderate terms.

MINING LAWS AND FORMS.

Third Edition revised and enlarged.

Compiled by H. H. CONGDON.

THIS Edition contains all the laws of the *STATE OF CALIFORNIA* and *NEVADA TERRITORY*, relative to Mining Corporations together with the Mining Ordinances of Mexico, complete; Digest of Decisions of the Supreme Court; Forms etc. 16 mo. flexible cloth, 192 pp. $2.50.

Published by H. H. BANCROFT & CO.

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Chipionena Mining Company, District of Ures, Sonora, Mexico.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 2d day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Buzzolini, D	11	30	$150 00
Buzzolini, D	79	4	20 00
Chevesich, E	22	1	5 00
Gautier, F	10	30	150 00
Ghirardelli, D	23	29	145 00
Ghirardelli, D	72	90	450 00
Ghirardelli, D	75	20	100 00
Howard, G H	15	18	90 00
Howard, G H	45	7	35 00
Mosheimer, J	56	25	125 00
Mosheimer, J	57	26	130 00
Smith, R	82	10	50 00
Teschemacher, H F	14	18	90 00
Teschemacher, H F	44	7	35 00

And in accordance with law, and an order of the Board of Trustees, made on the 2d day of November, 1855, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of John Middleton & Son, No. 404 Montgomery street, on the 16th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

JOHN F. LOHSE, Secretary.

Office, 318 California street, San Francisco, Cal. dec2

Kimbin Ravine Company, Sierra County, California.

NOTICE.—The Annual Meeting of the stockholders of the above Company, for the election of officers for the ensuing year, will be held on the 18th day of December, A. D. 1865, at 3 o'clock, P. M., at the office of the Company, No. 210 Front street, San Francisco.

dec2 H. NIELSON, Secretary.

Leland Gold and Silver Mining Company, San Francisco District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 30th day of November, 1865, an assessment of twenty-five (25) cents per share was levied upon the capital stock of said Company, payable on the 1st day of December, 1865, in United States gold and silver coin, to the Secretary, at his office in San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 15th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary,

Office, Room No. 2 (3d floor), N. E. corner Pine and Montgomery streets. dec2

Lady of the Lake Gold and Silver Mining Company, San Francisco District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of November, 1865, an assessment of twenty-five (25) cents per share was levied upon the capital stock of said Company, payable on the 1st day of December, 1865, in United States gold and silver coin, to the Secretary, at his office in San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 15th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary.

Office, Room No. 2 (3d floor), N. E. corner Pine and Montgomery streets. dec2

Mount Davidson Gold and Silver Mining Company. Location of Works: Virginia District, Storey County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 21 day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Atwill, Jos F	143	5	$5 00
Adsit, L B	3387	35	35 00
Boardman, Thos S	3331	15	15 00
Beardman, Thos S	3406	45	45 00
Bluxome, Isaac Jr	1902	15	15 00
Byxbee, John F	1094	5	5 00
Barton, Mrs N	1005	10	10 00
Bunnell, Geo W	2107	5	5 00
Bunnell, Mrs A W	2100	5	5 00
Bissell, S B	2185	20	20 00
Craig, Wm	1928	1	1 00
Craine, Wm	3018	20	20 00
Crane, A	3112	20	20 00
Chrtis, Lucien	3317	10	10 00
Dorr, C H	14	2	2 00
Dickerson, D E	2101	10	10 00
Dalliba, H S	2198	10	10 00
Dean, J T, Ag't	3390	50	50 00
Dean, J T, Ag't	3391	50	50 00
Dean, J T Ag't	3392	10	10 00
Emmonds, Nath'l	3257	25	25 00
Fisher, Geo	705, 075 1-ea	2	2 00
Fisher, Geo	983	3	3 00
Feil, C	1444	2	2 00
Franklin, Ed	3394	10	10 00
Franklin, Ed	3395	20	20 00
Franklin, Ed	3401	20	20 00
Grecnwell, Wm E	1729	50	50 00
Gibbons, P	2140	10	10 00
Gibbons, P	2142	8½	8 50
Greenfield, John	2184	20	20 00
Garwood, J S	3238	180	180 00
Hardy, B F	1199	5	5 00
Hall, Ed	1629	7	7 00
Hall, Ed	2121	21	21 00
Hyams, Dr L	1887	2	2 00
Hussey, A S	2023	5	5 00
Hickey, H F	3241	3	3 00
Hinchman	2152	25	25 00
Hinchman	2153	25	25 00
Hinchman	2223	25	25 00
Hall, Abia	22 8	5	8 00
Hagadorn, A H	2003	25	25 00
Howard, H O	3372	22	22 00
Herbert, H V	3403	599½	598 50
Irelan, Wm Jr	1911	50	50 00
Irelan, Wm Jr	3404	50	50 00
Joseph, J J	2 88	18	18 00
Krause, Wm E F	2147	8	8 00
Krause, Wm E F	2150	3	3 00
Krause, Wm E F	2183	12	12 00
Keith, S A	3	25	25 00
Keith, Sam'l D	1885	5	5 00
Keith, Wm H	327	5	5 00
Keith, Wm H	18 8	5	5 00
Keith, Wm H	1571	5	5 00
Keith, Wm H	1572	5	5 00
Lissak, A H Jr	2071	10	10 00
Lissak, A H Jr	2 73	10	10 00
Luning, N	2234	112½	112 50
Moore, Ellen E	1527	10	10 00
Moore, S W	1583	5	5 00
Moore, S W	1584	5	5 00
Moore, S W	1602	10	10 00
Moore, S W	1681	25	25 00
Minturn, John	3313	50	50 00
Mel, Louis	2158	30	30 00
Mel, Louis	2159	30	30 00
McConaghey, P	3314	25	25 00
Mitchel, Lewis	2035, 2035, 2037 2038, 2039 1-oa	5	5 00
Murphy, D	3241	90	90 00
Neville, Mrs A E	1853	2	2 00
Northnm, E F	2099	52	52 00
Northam, E F	2259	65	65 00
Norton, Sam'l	3250	3½	3 50
Osgood, Wm H	2013	50	50 00
Patch, Geo	1929	20	20 00
Patch, Geo	2248	10	10 00
Patch, Geo	2249	10	10 00
Patch, Geo	2 50	10	10 00
Panel, L T	2107	5	5 00
Perry, Jno Jr	3276	12	12 00
Perkins, J H	3398	10	10 00
Perkins, J H	3399	25	25 00
Pioche & Bayerque	3196	5	5 00
Reed, Henry H	1773	10	10 00
Ransom, Mrs A M	1850	5	5 00
Ransom, Miss A J	1851	2	2 00
Rouseet, P	2172	38	38 00
Robinson, Sam'l	2040	5	5 00
Schmitt, B L	3 92	25	25 00
Smith, Chas A	2214	2	2 00
Stout, A B	2252	15	15 00
Taylor, Oliver	3100	10	10 00
Van Reed, Mrs J H	1856	10	10 00
Walton, Mrs E M	708, 938 1-ea	2	2 00
Walton, Mrs E M	2	2	2 00
Wilson, E H	3240	3	3 00
Winship, Edw	3379	100	100 00
Winship, Edw	3380	100	100 00
Winship, Edw	3381	100	100 00
Whitney, Geo O	3287	5	5 00
Whitney, Geo O	3288	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 2d day of November, 1855, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Olney & Co, at No. 626 Montgomery street, San Francisco, Cal., on Wednesday, the 20th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

dec2 C. PARDOW, Secretary.

Orleans Quicksilver Mining Company—Location: Lake County, California.

Notice is hereby given, that the Annual Meeting of the stockholders of the Orleans Quicksilver Mining Company, will be held at the office of J. M. Buffington, No. 10 Government House, corner Sansome and Washington streets, San Francisco, on Saturday, December 30th, 1865, at 3 o'clock, P. M., for the election of Trustees, and such other business as may be presented.

CHAS. ROHRLE, President.

San Francisco, Nov. 30, 1865. dec2

Siempre Viva Silver Mining Company, Znragora District, Sinaloa, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of December, 1865, an assessment of two dollars and fifty cents ($2,50) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, 318 California street, up stairs.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 20th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOHN F. LOHSE, Secretary.

Office, No. 318 California street (up stairs), San Francisco, California. dec2

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine county, State of California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 30th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
James Ludlow	not issued	100	$25 00
Ed Mickle	not issued	100	25 00

And in accordance with law, and an order of the Board of Trustees, made on the 30th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at their salesrooms, No. 628 Montgomery street, San Francisco, Cal., on Saturday, the 16th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, S. E. corner Montgomery and Washington streets, San Francisco. dec2

Table Mountain Copper Mining Company, Copperopolis, Calaveras County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 1st day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Beckford, D R	91	3	$ 1 50
Bowman, E P	133	5	2 50
Bowman, E P	181	0	3 00
Bowman, E P	109	12	6 00
Bowman, E P	212	4	2 00
Bowman, E P	235	3	1 50
Burk, John	171	29	14 50
Buzzolini,	247	5	2 50
Crowell, Geo E	319	8	4 00
Coleman, Wm T	214	25	12 50
Davis, G B	90	10	5 00
Davis, G B	100	4	2 00
Davis, G B	128	11	5 50
Demill, E G	228	25	12 50
Demill, E G	229	11	5 50
Dorland, Thomas	239	50	25 00
Doyle, James R	340	29	14 50
Doyle, James R	342	7	3 50
Doyle, James R	344	10	5 00
Doyle, James R	347	85	43 00
Elmore, M Gaga	288	1	50
Elmore, Mrs Ada S	92	10	5 00
Elmore, John N	287	10	5 00
Geddis, Wm H	33	16	8 00
Geddis, Wm H	34, 35, 36, 37, 38 10 ea	50	25 00
Huntoon, W H	284	50	25 00
Honisberger, L	131	100	50 00
Hale, Calvin H	155	5	2 50
Hale, Calvin H	336	20	10 00
Hinchboru, J E	198	15	7 50
Jackson, J G	155, 176 50-ea	100	50 00
Knowles, G C	232	3	1 50
Linsley, E W	146	10	5 00
Lovell, James M	283	5	2 50
Lovell, James M	343	8	4 00
Minturn, W B	285	2	1 00
Mason, N H A	143	133	58 50
Monaghcr, Bridget	274	10	5 00
Newby, Richard	240	57	28 50
Newby, Richard	245, 301, 302 20-ea	60	30 00
Newby, Richard	264, 271 50-aa	100	50 00
Newby, Richard	247, 303, 304 305, 307 10-ea	50	25 00
Newby, Richard	306	3	1 50
Pentland, Henry	205	25	12 50
Swett, Daniel	224	15	7 50
Swett, Daniel	225, 245 10-ea	20	10 00
Swett, Daniel	274	5	2 50
Swett, Daniel	322	50	25 00
Van De Water, R J	136	30	15 00
Van De Water, R J	156	4	2 00
Van Vlack, Henry	277	15	7 50
Van Vlack, Henry	289	5	2 50

And in accordance with law and an order of the Board of Trustees, made on the 1st day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., at No. 625 Montgomery street, San Francisco, Cal., on Monday, the 18th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment, thereon, together with costs of advertising and expenses of sale.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco. dec2

United States Gold and Silver Mining Company.—Mine located in Ravenswood and Santa Fe Districts, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 23d day of November, 1865, an assessment of one dollar and five cents ($1.05) per share was levied upon the capital stock of said company, payable on the 25th day of November, 1865, in United States gold coin, to the Secretary, at his office.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 15th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

Office, 618 Merchant street, San Francisco, Cal.

Shareholders who have paid the former assessments, or who have advanced money to the Company, will be credited for the same upon this assessment.

de2 T. L. BIBBINS.

Mining Notices—Continued.

Chlengo Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of November, 1865, an assessment of two dollars ($2) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 15th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. no25

Camargo Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment (No. 5) levied on the 21st day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
H H Allen	46	9	$45 00
R W Heath	112	1	5 00
N B Jacobs	85	4	20 00
N Q Jacobs & Co	74	7	35 00
A Todd	109	15	75 00
John Wirgbtman	113	1	5 00
W B C Harker	28	8	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 21st day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Jones & Bendixen, auctioneers, at the office of the Company, on the 9th day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. no25

Chloride Ledge Gold and Silver Mining Company—Location of Mine: Blue Mountain District, Calaveras County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 15th day of October, 1855, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allen, Doty	18	20	$ 20 00
Agnew, John	20	20	20 00
Banker, H S	30	5	5 00
Bigsby, C B	34	5	5 00
Cooper, Chas	38	5	5 00
Gadsby, K H	31	20	20 00
Greaves, Benj	28	5	5 00
Larkin, G O	4	20	20 00
Schwartz, H	5	20	20 00
Schultze,	9	50	50 00
Strader, Wm	38	25	25 00
Watson, J T	12	10	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 14th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salerooms of Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on the 9th day of December, 1855, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

R. H SMITH, Secretary.

Office, No. 605 Montgomery street, San Francisco. no25

Comet Petroleum Company.—Location of Works: Humboldt County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 13th day of October, 1855, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
S M Balch	1	25	$ 7 50
S M Balch	23	50	15 00
Warren J Chapman	2	12	3 50
R L Holman	3	13	3 00
Geo J Hughston	4	25	7 50
Geo J Hughston	5	25	7 50
B C Howard	6	50	15 00
B C Howard	7	300	90 00
Geo K Paul	8	50	15 00
Martha J Larrimore	14	100	bal 10 00
B C Howard	19	100	30 00
Geo J Hughston	24	50	15 00
J S Wertheimer	27	40	12 00
Geo W Mcuomy & Co	28	100	30 00
H Steele	33	200	60 00
William Green	35	50	15 00
J T Ocnn	38	100	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 13th day of October, 1855, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., at 526 Montgomery street, San Francisco, Cal., on Monday, the 4th day of December, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

L. CROSBY, Secretary.

Office, 36 Exchange Building, northwest corner Montgomery and Washington streets, San Francisco. no18

George Washington Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal. Assessment No. 8.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 6th day of November, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately. In United States gold and silver coin, to the Secretary, at the office of the Company, only.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 26th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, 338 Montgomery street, San Francisco. novll

Goodwin Gold and Silver Mining Company, Simpson Park Mining District, Lander County, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of November, 1865, an assessment of two dollars per share was levied upon the capital stock of said Company, payable on the 11th day of November, 1865, in United States gold and silver coin, to the Secretary, corner of Battery and Washington streets, San Francisco, Cal., or to S. C. BAKER, Austin, State of Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

E. V. JOICE, Secretary.

Office, corner Battery and Washington streets. novll

PRINTING FOR THE HOLIDAYS promptly executed in any style to suit tradesmen, at our Job OFFICE, 505 Clay street.

Eagle Quartz Mining Company---Location of Mine and Mill, Amador County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 23d day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
E P Cutter	151	15	$11 25
J P Dulip	26	10	7 50
J P Dulip	87	5	3 75
J K Hamon	181	184	138 00
S R Harris	137	100	75 00
J S Haskell	30	10	7 50
J S Haskell	35	20	15 00
Isaac Rowell	8	25	18 75
Eli Schell	165	40	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of John Middleton & Son, 404 Montgomery street, San Francisco, on the 11th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

JOHN M. BURNETT, Secretary.

Office, 405 Montgomery street, San Francisco. no25

La Favorita Mining Company, Montezuma District, Sonora, Mexico.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 30th of August and 25th day of October, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Henry Pforr	30	5	$ 5 00
Henry Pforr	31	10	10 00
Henry Pforr	32	20	20 00
Henry Pforr	33	20	20 00
Henry Pforr	34	40	40 00

And in accordance with law, and an order of the Board of Trustees, made on the 25th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the salesrooms of Olney & Co., 626 Montgomery street, San Francisco, on Saturday, the 9th day of December, 1865, at the hour of 3 o'clock, P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

E. WASSERMAN, Secretary.

Office, 429 Sacramento street, San Francisco. no25

Keokuk Gold, Silver and Copper Mining Company. Clayton Mining District, Contra Costa County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of October, 1865, an assessment of ten (10) cents per share was levied upon the capital stock of said Company, payable on the 18th day of November, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, 308 and 310 Front street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

A. B. WINEGAR, Secretary.

Office, 308 and 310 Front street, San Francisco, Cal. oc21

N. B.—This assessment is re-advertised. nov18

Maria Silver Mining Company.---Location of Works: Chihuahua, Mexico.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 18th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Name.	No. Certificate.	No. Shares.	Amount.
A Austin	177	10	$10 00
F J Herrmann	5, 168	30	30 00
John Weinman	6	10	10 00
G Zaiecle	7	5	5 00
Aug Schmitt	10	10	10 00
Jean Golly	10	10	10 00
J N Guillemin	18	50	50 00
Joseph Jaquot	24, 25	20	20 00
H Thermen	20	10	10 0
Philip Heuer	32	5	5 00
B Bertraud	40	10	10 00
M A Dunand	43	20	20 00
P Blick	48	5	5 00
J Wellhoff	10	10	10 00
L Thiele	53	10	10 00
Henry Shmitt	54, 59	35	35 00
V Squarza	55	20	20 00
Cas Fleig	57	10	10 00
Joseph Hug	60	25	25 00
D Baque	69	25	25 00
P R Schmidt	72, 158	25	25 00
L C Schmidt	73	10	10 00
Victor Hoffman	111	50	50 00
J Veillier	160, 114	50	50 00
A Pavillier	121	25	25 00
A Moutardier	122	10	10 00
M Mangels	123	5	5 00
Henry Schmitt	126, 127	30	30 00
J Warshawsky & Co	135, 176	25	25 00
S H Pinaer	136	10	10 00
Alex Meyer	139, 150	10	10 00
W Shultze	157	5	5 00
J P Schmitz	161, 162	10	10 00
M Heinemaa	170	15	15 00
R Feigo	19	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 16th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at No. 626 Montgomery street, San Francisco, Cal., on the 24 day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

AUGUST KUNAST, Secretary.

Office, 540 Washington street. nov18

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. Now advertisements should be sent in as early as possible.

Oroville Gold, Silver and Copper Mining Company.—Location of Works: Oroville, Butte County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 7th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
S B Bissell	50	25	$25 00
S B Bissell	53	62	62 00
Calvin Brown	34	50	50 00
Frank E Brown	33	50	50 00
Richard Chenery	61	90	90 00
Chas A Morse	48	100	100 00
J E de la Montagnie	47	100	100 00
E C Doran	41	10	10 00
A Powell	24	50	50 00
J C Eldredge	21	20	20 00
Sarah J Winslow	49	10	10 00
C W Reilly	39	5	5 00
R P Lee	52	283	283 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at No. 626 Montgomery street, San Francisco, Cal., on the 24 day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

ROBT. P. LEE, Secretary.

Office, No. 434 California street, San Francisco. no18

Southern Light Gold and Silver Mining Company, Reese River Mining District, Lander County, Nevada.

All persons are hereby cautioned NOT to purchase the following described Certificates of Stock, sold for delinquent Assessment No. 7, as said certificates will not be transferred on the Books of the Company, viz:

In name of	Certificate.	Shares.	Shares Sold.
Work, Geo	193	2	2
Sharp, G F	40	4	4

Por order of Board of Trustees.
San Francisco, Nov. 20, 1865
E. J. BRINKHOUSE, Secretary.
Office, No. 228 Front street, San Francisco, Cal.
no25 2w

Santa Cruz Petroleum Oil Works Company. Location of works: Santa Cruz County, Cal.

NOTICE.—There are delinquent upon the following described Stock, on account of Assessment No. 14, levied on the 23d day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Blaisdell, Mrs E F	670	21	$ 8 40
Brooks, Edmd	737	50	20 00
Carr, Mrs A L	211	5	2 00
Carr, Mrs A L	212	5	2 00
Carr, Mrs A L	310	1	40
Carr, Mrs A L	571	5	2 00
Campbell, Mrs Cath E	596	100	40 00
Gallagher, F D	740	10	4 00
Hart, Miss Frances M	617	10	40 00
Hardy, Dr B F	630	80	32 00
Ingols, Mrs Marg R	68	1	40
Ingole, Mrs Marg R	69	2	80
Langdom, Dr Sam'l	173	20	8 00
Langdom, Dr Sam'l	174	20	8 00
Langdom, Dr Sam'l	175	20	8 00
Lungdom, Dr Sam'l	170	20	8 00
Laugdom, Dr Sam'l	242	50	20 00
Langdom, Dr Sam'l	342	11	4 40
Lott, C F	564	100	40 00
Lott, C F	565	100	40 00
McCombe, John	736	8	2 40
McComb, James	7.9	25	10 00
Norcross, Mrs E J	70	3	1 20
Root, W D	622	50	20 00
Root, W D	8 3	52	20 80
Shirley, T W	818	100	40 00
Shirley, T W	619	50	20 00
Shirley, T W	620	107	42 80
Shirley, T W	687	50	20 00
Stewart, J M	21	50	20 00
Stewart, J M	269	7	2 80
Sheldon, John P	732	30	12 00
Sheldon, John P	733	200	80 00
Tillinghast, W H	1	30	12 00
Tillinghast, W H	351	4	1 60
Tillinghast, W H	499	50	20 00
Tillinghast, W H	714	16	6 40
Whitney, H M	125	5	2 00
Watermau, D C	188	5	2 00

And in accordance with law and an order of the Board of Trustees, made on the 23d day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Cobb & Sinton, at No. 406 Montgomery street, San Francisco, Cal., on the 14th day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

R. WEGENER, Secretary.

Office, 415 Montgomery street, San Francisco. no25

Segregated Belcher Mining Company, Gold Hill District, Storey County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 25th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Burke, E R	2, 3	100-ea 200	$800 00
Burke, E R	13	10	40 00
Burke, E R	14	3	12 00
Blasdell, H G	43, 44, 45, 46, 47, 48, 49, 50	20-ea 160	640 00
Blasdell, H G	51, 52, 53, 54, 55, 56, 57, 58	10 ea 80	320 00
Blasdell, H G	59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74	5-ea 80	320 00
Apple, R	18	2,000	6,000 00
Apple, R	61, 67, 80	400-ea 1,200	4,800 00
Apple, R	62	183	731 00
Apple, R	90	320	1,280 00
Harmon, A K P	15	200	800 00
Livingston, F	88	400	1,600 00
Wheeler, C T	20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34	20-ea 200	800 00

And in accordance with law and an order of the Board of Trustees, made on the 25th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the Salesroom of J. Middleton & Son, 404 Montgomery street, San Francisco, on the 9th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

JOHN F. LOHSE, Secretary.

Office, 318 California street, up stairs. no25

Notice.—The Annual Meeting of the Stockholders of the UNITED STATES MINING COMPANY, will be held at the Office of the Company, on Monday, December 25th, 1865, at 3 o'clock, P. M.

J. M. BUFFINGTON, Secretary.

San Francisco, November 25th, 1865. no25

United States Mining Company---Location, Virginia, Storey County, Nevada

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 15th day of November, 1865, an assessment of fifty cents per share was levied on each and every share of the capital stock of said Company, payable immediately, in gold or silver coin of the United States, to the Secretary, at his office, or to F. A. MARSTON, Virginia, Nevada.

Any stock upon which said assessment shall remain unpaid on the 16th day of December, 1865, will be advertised as delinquent, and unless paid, will be sold on Saturday, the 30th day of December, 1865, to pay said delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. M. BUFFINGTON, Secretary.

Office, No. 10 Government House, corner Sansome and Washington streets, San Francisco, Cal. nov18

Wide West Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 11th day of November, 1865, an assessment of one dollar ($1) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, or to the Superintendent at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOSEPH GREEN, Secretary.

Office, 330 Davis street, corner of Washington street, San Francisco. no18

Wide West Mining Company, Esmeralda District, Esmeralda County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessments levied on the 18th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Name.	No. Certificate.	No. Shares.	Amount.
Joseph Aron	1361	10	50 00
V Acker	2784	10	50 00
D Armstrong	2656	5	25 00
D Armstroug	1671	10	50 00
F Augel	2689	5	25 00
Joseph Bassett	1170	5	25 00
Joseph Bassett	2321	10	50 00
Alfred Borel	1686, 2106	10 ea 20	100 00
H Brannan	1452	1	5 00
R Bayerque	2477, 2478	10 ea 20	100 00
Borker & Rosenfield	2531	20	100 00
Borker & Rosenfield	2727	10	50 00
Geo O Blake	2500, 2507	20-ea 40	200 00
Geo O Blake	2680	20	100 00
A W Burnham	2739	¾	3 75
Joseph Chadbourne	2310	10	50 00
H K Curtis	1524	5	25 00
J T Carter	bal 16.2	1¾	8 75
W T Coleman	bal 2129	½	2 50
W T Coleman & Co	2078	10	50 00
T W Colburn	2783, 2765, 2786	10-ea 30	150 00
T W Colburn	2787, 2789	10-ea 20	100 00
T W Colburn	2790, 2791, 2792	10-ea 30	150 00
T W Colburn	2793, 2794, 2795	10-ea 30	150 00
T W Colburn	2796	15	75 00
T W Colburn	2797	20	100 00
Thos Condon	2688	10	50 00
John Dunn	1049	1	5 00
J P Davis	2251, 2252	10 ea 20	100 00
J P Davis	2720, 27.1, 2452	10-ea 30	150 00
J P Davis	27 2	8	30 00
Antonio Descazo	bal 2473	2½	12 50
A L Eklof	2693	10	50 00
Mary Furger	1354	1	5 00
John Fine	1772	2	10 00
Robt H Fulton	bal 2153	2½	12 50
Henry Fischer	2730	2	10 00
P Fitz Hugh	2606	10	50 00
John Ferrie	2747, 2748, 10 ea	20	100 00
John Ferrie	2752, 2755, 2756	10-ea 30	150 00
John Ferrie	2757, 2759	10-ea 20	100 00
John Ferrio	2774	10	50 00
John Ferrio	2761	3	15 00
John Ferrio	2776	10	50 00
John Ferrie	2760	10	50 00
H W Fortuns	2806	20	100 00
D Gonzales	2583	5	25 00
J E Garrett	2 55	10	50 00
T N Green	bal 2126	½	2 50
G S Gladwin	2700	10	50 00
Louis Gestle	2409	20	100 00
J W Gardner	2591	5	25 00
J W Gardner	2609	10	50 00
C E Gibbs	2662	10	50 00
N E Grimes	2731	9	45 00
N E Grimes,	2732, 2733	½-ea 1	5 00
S Hubbard	744	3	15 00
H Hadler	bal 2015	3¼	16 25
Samuel J Hopkins	976	2	10 00
Jacob Hess	1083, 1590	1-ea 2	10 00
M Heinemann	2 60, 2311	10 ea 20	100 00
John Hewston, jr	bal 1090	2	10 00
John Heweton, jr	bal 1597	1	5 00
J Herzberg	2303	7	35 00
J Herzberg	2309	10	50 00
T W Hackett	2674	5	25 00
T W Hackett	2669	10	50 00
John Harding	2514	10	50 00
Thos Hill, Trustee	2523	10	50 00
T W Hinebman	2813, 2614, 2815	10-ea 30	150 00
Geo R Jesso	1751	5	25 00
S Kline	bal 1280	¾	3 75
Chas Keyser	bal 2212	½	7 50
F Klosteman	2675	20	100 00
Kate Kelly	2694	5	25 00
Theo Le Roy	965	4	20 00
H Levy	1120	5	25 00
B Lulofe	1357, 1501	5-ea 10	50 00
B Lulofs	2446	11	55 00
B Lulofs	2447, 2446, 2449	10-ea 30	150 00
J Landsberger	2109	10	50 00
C Simon Lipman	2563	10	50 00
W O Langstein	bal 1970	2½	12 50
D S Lunt	2271	4	20 00
D S Lunt	22 4	1	5 00
Chas Lumbard	2771, 2772	10-ea 20	100 00
Chas Mayno	bal 1613	2	10 00
Chas Mayno	bal 1959	2½	12 50
Chas Mayne	bal 2043	3	15 00
Dan'l Murphy	1340, 1558	each 4	40 00
Dan'l Murphy	1396, 1491	each 5	50 00
Dan'l Murphy	1753	10	50 00
Dan'l Murphy	1900	15	75 00
Dan'l Murphy	2419	2	10 00
W Matbeson	bal 1439	½	2 50
A Meyerson	1467	5	25 00
James Mermond	2497	5	25 00
J S Mitchell	2505, 2641	10-ea 20	100 00
E Martin	1304	10	50 00
Christopher Nelson	2353	2	10 00
Y Noly	2675	20	100 00
Thos Nelson	2565	20	100 00
Thos Nelson	2566	10	50 00
John O'Brien	2740	5	25 00
Pease & Grimm	2249	10	50 00
Nathaniel Page	2264	20	100 00
Nathaniel Page	2265	10	50 00
Jua Chelaa	1634	10	50 00
Jos Flaw	1668	10	50 00
J B Painter	2765, 2766, 2767	10 ea 30	150 00
J B Painter	2768, 2769, 2770	10-ea 30	150 00
S G Reed	1001, 1023	5-ea 10	50 00
Wm Ready	27 8	10	50 00
F Selbel	1178	5	25 00
P Sather	1316	10	50 00
J P Schmitz	bal 2626	1	5 00
C H Sunpkins	2066	10	50 00
C A Schmitt	bal 2466	2½	12 50
C A Schmitt	2511, 2832	10-ea 20	100 00
Schultz & Van Bergen	2413	20	100 00
Schultz & Van Bergen	2144, 2145, 2402	10-ea 30	150 00
John Schneider	2527	10	50 00
Chas F Scranton	2559	20	100 00
Theo E Smith	2572, 2762	10 ea 20	100 00
E L Smith	2651, 2851	10-ea 20	100 00
Z W Sparks	2799, 2800, 2801	10 ea 30	150 00
C Steveus, trustee	2816	10	50 00
A C Tietman	2174, 2175, 2177	10-ea 30	150 00
Oliver Taylor	2358	9	45 00
Oliver Taylor	2550, 2649, 2668	10-ea 30	150 00
Oliver Taylor	2540	6	30 00
Oliver Taylor	2648	5	25 00
Oliver Taylor	2703, 2704, 2716	10 ea 30	150 00
Chas Upton	663	5	25 00
A Unger	2028	10	50 00
Unger Bros	2142	10	50 00
Unger Bros	2242	20	100 00
D Wetgan	1429	2	10 00
A Wolf	bal 2145	¾	3 75
A Wolf	bal 2.54	¼	1 25
E J White	2808, 2809, 2810	10-ea 30	150 00
E J White	2811, 2812	10 ea 20	100 00
T E Wilke	2756	10	50 00
Geo O Whitney	2782	10	50 00
J Van Bergen	144, 3.7	10-ea 20	100 00
Dani Shuto	2253	10	50 00

And in accordance with law, and an order of the Board of Trustees, made on the 18th day of October, 1865, so many shares of each parcel of said stock as may be necessary will be sold, at the salesrooms of John Middleton & Son, No. 404 Montgomery street, San Francisco, on Monday, the 4th of day December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessments thereon, together with costs of advertising and expenses of sale.

J. P. DAVIS, Secretary.

Office, No. 103 California street, San Francisco. no18

Yuba Gold and Silver Mining Company, Brown's Valley, Yuba County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of November, 1865, an assessment of two dollars and fifty cents ($2.50) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, No. 210 Pine street, up stairs, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

P. R. RINGSTROM, Secretary.

Office, 210 Pine street.

N. B.—The above assessment is for the purchase of Machinery, nov18

Office Zenith Gold and Silver Mining Company, Mountain Ranch District, Calaveras County, California.

At a meeting of the Board of Trustees, held November 6th, 1865, it was "Resolved, That all previous assessments levied upon the stock of this Company, being

No. 1, September 24, 1863—25 cents per share;
No. 2, October 13, 1863—20 cents per share;
No. 3, December 2, 1863—30 cents per share;
No. 4, January 8, 1864—$1 per share;
No. 5, May 3, 1864—50 cents per share;
No. 6, August 15, 1864—50 cents per share;

be, and the same are hereby annulled and declared void, and that all moneys paid to the Company on said assessments be placed to the credit of the stock on which it was paid, and apply as a credit upon the next assessment levied by the Company. By order of the Board of Trustees.

M. G. ELMORE, Secretary.

Office, No. 7 Stevenson Block, San Francisco. no11 4w

Zenith Gold and Silver Mining Company, Mountain Ranch District, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 6th day of November, 1865, an assessment of three dollars and twenty-five cents ($3.25) per share was levied upon the assessable stock of said Company, payable immediately, in United States gold coin, to the Secretary, No. 7 Stevenson Block, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 9th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 23d day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

M. G. ELMORE, Secretary.

Office, No. 7 Stevenson Block, San Francisco. nov11

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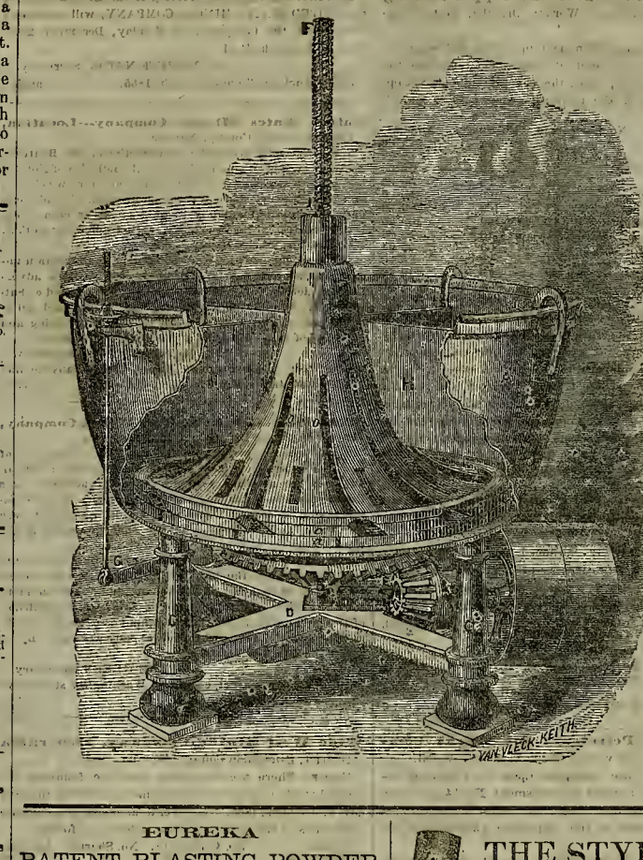
The work also contains an original and highly interesting discussion of the tractory and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Belshaw, assayer and superintendent of the S. F. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on pa 415 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865.

Sold by booksellers generally. Price by mail, postage paid, $1.25. Address "Wheeler & Randall, at the Mining and Scientific Press Office, San Francisco." 2v11



THE EXCELSIOR

GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings.

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

Union Iron Works and Golden State Iron Works,

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.

EUREKA

PATENT BLASTING POWDER.

Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets. Room No. 9, with San Francisco Chemical Works,

CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2v11dy

WILLIAM PENROSE,

Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,

Is prepared to buy in any quantity

COPPER, SILVER, GOLD, LEAD

AND OTHER VALUABLE ORES;

Also Lead Bars Containing Gold and Silver,

☞ Full value paid on delivery in this City. ☜

Address Lock Box No. 992, P. O., San Francisco. 25v10

CLOTHING MADE FROM CALIFORNIA CLOTH,

For Wholesale and Retail Trade,

ALSO, CLOTHING MADE TO ORDER,

AT QUINCY HALL,

Nos. 545, 547 and 549 Washington Street,

SAN FRANCISCO, CAL.

19v11-3m

To Mining Companies.

A GENTLEMAN OF MUCH EXPERIENCE AS A MINing Superintendent, in England, Spain, and on the Pacific coast, and one intimately acquainted with every department of mining, and with nearly every class of minerals, is desirous of securing a position as Superintendent of some mining operation in California or Nevada. The applicant was for four years Superintendent of the New Almaden Quicksilver Mine, in this State. The best of reference given on application at this office.

San Francisco, Oct. 12, 1865 .5v11tf

THE STYLE

—FOR—

Fall and Winter, 1865,

Will be Introduced Aug. 26, at

MEUSSDORFFER'S

HAT MANUFACTORIES,

Nos. 635 & 637 Commercial st., San Francisco,

No. 125 J st., bet. Fourth & Fifth, Sacramento.

Corner D and Second Streets, Marysville.12v11

WE ARE NOW OFFERING

OUR IMMENSE STOCK

—OF—

Fine Custom Made Clothing

—AND—

Gents' Furnishing Goods

AT PRICES THAT DEFY COMPETITION.

Our Stock of Clothing Consists of

ALL THE LATEST STYLES

BOTH OF MATERIAL AND FINISH.

A Large Assortment of

Trunks, Valises, Carpet Bags, Blankets, Etc.,

AT EXTREMELY LOW PRICES.

J. R. MEAD & CO.,

8v10 Cor. of Washington and Sansome streets.

SAN FRANCISCO

CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at TUBBS & CO.'S,
Nos. 611 and 613 Front street.
Manufactory at the Potre 14v10

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 6, 1865 11v10-tf

CHARLES BERNARD,

MANUFACTURER AND DEALER IN

Family Chartres Coffee,

AND SPICES OF ALL KINDS.

No. 707 Sansome street, cor. Gold, bet. Jackson & Pacific.

First Premium Awarded

BY THE MECHANICS' INSTITUTE,

FOR BEST COFFEE AND SPICES.

The proprietor having introduced steam power in his Manufactory, has now increased facilities to supply the trade and the public in general. All articles from his establishment are guaranteed to be pure and unadulterated. The public are respectfully invited to call and convince themselves. Country orders promptly attended to.
15v11-3m

OIL WELL BORING.

J. SEVENOAKS,

Contractor

For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1229 San Francisco. 2v11

LEHIGH COAL.

200 Tons Large Lump Lehigh Coal

Now on Hand.

I am also in constant receipt of

LEHIGH COAL,

And will be able to supply it always

At the Lowest Market Price.

JAMES R. DOYLE,

20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

IDAHO ITEMS.—The Idaho papers afford the following: Mining is carried on successfully this season, at Idaho City, and the creeks adjoining Matthewson & Ingersol are working about ninety hands, and cleaning up from $3,000 to $4,000 every 24 hours, on Moore's creek. Friend & Allen's, and other claims, are also paying largely on the same creek. The work on the Chickahominy or the Cobden Company's mine, is progressing very rapidly. The machinery is all on the ground and winter quarters nearly completed. The Union Gold Mining Company's mines (the Astor, United States and other ledges) are being speedily developed, and buildings erected for the reception of the machinery, which is on the road.

THE swan subdues the eagle when he attacks her on her own element; so that the weakest may subdue the strongest too if he but keep his place and do his duty.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government requirements and revenue laws, as well as other new and imperative regulations. These discrepancies, although resulting from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with some but active and experienced solicitors. The MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

ELECTROTYPE CUTS, ENGRAVINGS, ETC.—Our Job Printing Office is abundantly supplied with elegant engravings, ornaments, and other embellishments to suit the various branches of industry in this State.

To Printers.

We have for sale, at a bargain, a Second-hand Half-Medium (largest size), Ruggles' Engine Job-Printing Press, of most approved pattern. It is in excellent condition, and warranted to work as good as new. Apply soon, at the office of the MINING AND SCIENTIFIC PRESS. 19v11tf

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

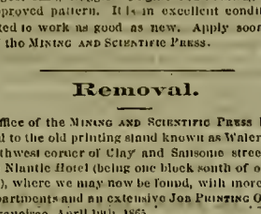
San Francisco, April 10th, 1865.

New Volume

—OF THE—

Mining and Scientific Press

Issued every Saturday. Each number contains 16 pages and 64 columns (size of Harper's Weekly).



PUBLISHED BY

DEWEY & CO.,

Patent Agents, Publishers and Job Printers
505 Clay Street, San Francisco.

THE ELEVETTH VOLUME

Of the MINING AND SCIENTIFIC PRESS commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this journal may be anticipated by its numerous and rapidly increasing readers.

We shall continue to devote a large space in our columns to the various and best methods of treating ores and saving gold and other precious metals in every form, furnishing valuable hints to millmen, prospectors, oil-workers and miners generally, not to be found in any other publication.

New machinery, latest inventions and discoveries, and all matters pertaining to the mechanical, manufacturing and industrial resources of the Pacific States, will receive careful attention.

Stock market reports will be published as received from the official records. Our carefully compiled "Mining Shareholders' Directory" will prove a faithful monitor to parties holding stock, and a desirable record for reference to brokers.

Friends pleased with our efforts in the publication of the PRESS can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and News-dealers, acting as our agents, will receive liberal commissions.

☞ BOUND VOLUMES FOR SALE. ☜

SUBSCRIPTION IN ADVANCE.

One Year, (two volumes)	$5.00
Six Months, (one volume)	3.00

FOR ADVERTISING

Our terms are very reasonable. MINING COMPANIES are especially favored by our rates, and careful attention is given to the legal publication of MINING NOTICES.

OFFICE—No. 505 Clay street, corner of Sansome.

DEWEY & CO., Publishers.

C. W. M. SMITH .....W. B. EWER .....A. T. DEWEY

Machinery.

HUNTER'S
PREMIUM
CONCENTRATOR, AMALGAMATOR
AND SEPARATOR,

Awarded a Silver Medal at the late Mechanics' Fair.

HUNTER'S CONCENTRATOR CAN BE SEEN IN OPERATION daily at the Novelty Iron Works, Fremont street. Parties wishing to purchase Concentrators will find it to their advantage to examine the above machine before purchasing elsewhere, for the following reasons:

1st. It will work the sands from a 5-stamp battery, and save from 10 to 20 per cent. more sulphurets than any machine built on the Pacific coast.

2d. The Sulphurets are washed clean, containing less than ten per cent. of sand.

3d. The waste free gold and amalgam is amalgamated on the copper plates; not one of ground mercury and scarcely a trace of metal passes off with the sand.

4th. Its simplicity is a sufficient recommendation for its general use as a Concentrator. The variation of speed in a Quartz Mill does not effect the working of the Machine. The same was demonstrated at the late Mechanics' Fair, when with the greatest IRREGULARITY OF SPEED the best of results were given.

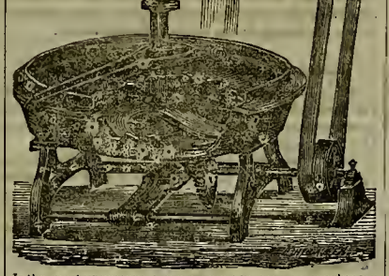
5th. There is no clogging or stopping to clean out the sulphurets and sand; consequently no waste from any inattention on the part of the attendant.

6th. In exhibiting the working of the machine it is not run empty, all classes of ores and tailings, from 50 pounds and upwards, are concentrated that parties may see fit to test the machine with.

Give it a trial, and satisfaction is guaranteed. All orders and any information required, address,

ANDREW HUNTER,
Novelty Iron Works, Fremont st., San Francisco,
15v11-3m Or to E. T. STEEN, Agent.

BAUX & GUIOD'S
Separator & Amalgamator



Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time. It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jeffersonian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crail's Gravel Cement Works, Nevada county; Watkinson's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Heugh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,
Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8-6dl

BLAKE'S
QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA,
WASHOE,
ENGLAND, FRANCE,
— AND —
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,
Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.
4v10

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th.

Illustrated in the Mining and Scientific Press, April 9th, 1864.

HEPBURN & PETERSON.
nov8 3m*

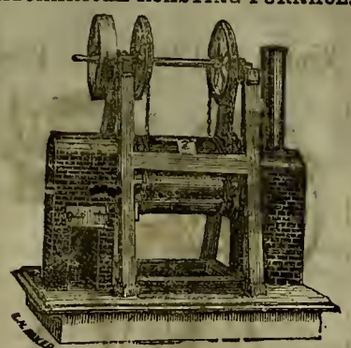
HUNT'S PATENT
Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,
jy10 28 Second street, San Francisco

The Mechanics' Institute
AWARDED A
PREMIUM SILVER MEDAL
TO BRUCKNER'S
MECHANICAL ROASTING FURNACE.



Parties wishing to erect such Furnaces, are requested to leave their orders with

T. KALLENBERG,
12v11 416 Market street, San Francisco.

HUNT'S
IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN
HORSE POWER
For Sawing Wood.

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

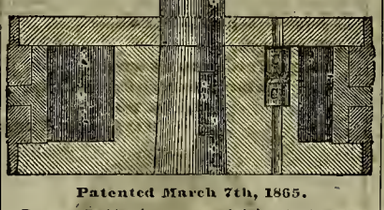
E. O. HUNT,
No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

DENIS WHELAN,
Fashionable Boot Maker

REPAIRING NEATLY DONE, AT SHORT NOTICE.

No. 17 Fourth Street,
Near Market street, San Francisco.
15v10-1m*

Stevens' Pressure Packing.



Patented March 7th, 1865.

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

STEVENS' PACKING has the advantage of being cheaper in first cost than the ordinary packing, and can be applied to old style pistons with very little alteration or detention. In place of testimonials, the Patentee requests of those who are using the old spring packing to inquire of the owners of the various engines which now have this packing in use—some of which have been running from three to twelve months without being opened, or showing any descriptive leak—and act upon their recommendation.

Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Almeda Railroad, or at the VULCAN IRON WORKS, where they can be seen, at any time, in course of construction.

10df **ANDREW STEVENS.**

SALMON'S
PROPELLOR AMALGAMATOR
— AND —
Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

9v11 **J. & W. C. SALMON.**

McCOMB'S
CUMULATIVE POWER PRESS
AND
ARROW TIE.

E. C McCOMB, Agent,
No. 1 Government House, cor. Sansome and Washington sts.
23v10 3m

STOW'S
PATENT CHAMBER DRILL.

The greatest Labor-saving Machine ever invented for Quartz Mining. By using this Drill in shafts, tunnels, and all other rock blasting, three fourths of the labor and over one half of the powder will be saved. The Drill makes a chamber directly at the bottom of the hole, at any depth you wish, six times the area of the original hole, in all kinds of rock, in less time than a man can drill a 2½ hole two inches deep. Requiring no tamping, it will be impossible to have a premature blast.

AT THE STATE FAIR held in Sacramento, September, 1865, a Committee, after examining both the Lincoln and Stow's Chamber Drills, reported as follows:

We, the undersigned, Committee on Mining Tools, do award to Henry M. Stow, of San Francisco, the FIRST PREMIUM for the best Chamber Drill for blasting rock, for the following reasons:

1st. For simplicity of construction.
2d. For durability of drill;
3d. For strength of drill.

The above Drills will be sent to any part of the State for $20, with one set of Cutters or Chisels that will chamber from 75 to 100 holes. Extra Chisels furnished at $2 50 per set.

The Drill may be seen at Mr. BUFFINGTON'S Office, No. Government Block, corner Sansome and Washington streets, and at No. 511 Market street.

Drills will be delivered to any part of this State free of expense to the purchaser. Any information desired, or orders for Drills, address

STOW & COLLINS,
San Francisco

Oil Wells! Oil Wells!!

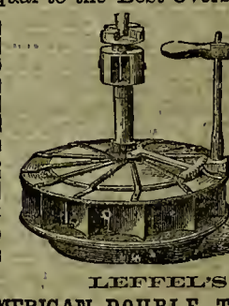
I received at the last STATE FAIR a special Premium for the best Expanding Drill for boring oil wells. The above Drill will bore the hole from ¾ inch to 2 inches larger than the inside of the pipe or tubing of the well, if desired, making the bore perfectly straight and round. The Drill can be attached to mud work with any common drill at an expense of from $25 to $50. I will furnish all machinery for boring, or will take contracts for boring wells, and furnish steam engines and all tools required. Address,

HENRY M. STOW,
14v11 San Francisco.

WATER WHEELS!

Equal to the Best Overshot Wheel

POWER PLEDGED IN EXISTENCE.



LEFFEL'S
AMERICAN DOUBLE TURBINE

Is now manufactured by the Vulcan Iron Works Company, in this city, and orders for the same can be filled immediately. We have a large supply of the different sizes, from 10 inches to 80¼. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 100 to 300 pounds, will yield from 10 to 30 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to

LEFFEL & MYERS,
At Vulcan Iron Works, office 137 and 139 First street, San Francisco. 4v11tf

VARNEY'S
PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is driven down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Setlers made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setlers for themselves, at the **PACIFIC FOUNDRY,**
1v1 San Francisco.

New Invention.

ROSENFIELD'S PATENT SAFETY WHIPPLETREE—The greatest thing out. The attention of all owners of Horses and Buggies is called to this valuable LIFE and Buggy saving invention, and which can be attached to all buggies and vehicles without any change in the harness or buggy, and can be easily secured to any carriage in fifteen minutes. The great value of this Whippletree is, that a runaway horse can be instantly detached from a carriage without taking any portion of the vehicle. The public are invited to call and see it, and orders for the Whippletree left at No. 420 California street (northeast corner of California and Leidesdorff streets), Room No. 1, from 10 A. M. to 5 P. M., will be promptly attended to. Letters dropped through the Post Office, Box 1,941, will be promptly and fully answered. 18v11-1m

OIL WELL BORERS.

A CONTRACT WILL BE LET TO A RESPONSIBLE party to sink an Oil Well, as deep as may be required, on land belonging to the "Eel River Oil Company," situated in Humboldt county, Cal. For particulars, inquire at the office of the Company, No. 436 Jackson st., up stairs.

12v11-1m E. H. WILSON, Secretary

The treasure receipts at this city from the interior for the past week, have been $950,000; making an aggregate for the month of November of $4,350,000.

EDITORIAL CHANGE.—Wm. J. Beggs has assumed editorial charge of the *Stars and Stripes*, published at Auburn.

PATENT RIGHT FOR SALE.—The exclusive right for the manufacture and sale of "Hutchinson's Wine and Cider Mill and Press, for the States of California and Oregon, is advertised for sale in another column. It is a valuable patent, and the offer affords a fine chance for business.

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MR. ROBERT LATTIMORE is now on a canvassing tour for the PRESS through Butte, Colusi, Tehama, Shasta, and Siskiyou counties, and we recommend him to the favorable consideration of our friends.

Oakland Water-Cure.

APRIL 1ST, 1864, WE OPENED A HYGIENIC BOARDING House and Ladies' Health Institute in Oakland. The great advantage we have experienced since that time, in the treatment and cure of all those diseases peculiar to females, as well as those common to all, over that of San Francisco, induced us to give up the treatment of gentlemen in the city. We have accordingly removed our entire Bathing, Electro-magnetic, and Gymnastic Apparatus, which we used especially in the management made to our Health Institute across the Bay, and have found, after a trial of seven months, that gentlemen as well as lady patients recover, at our Fountain Farm Cure, one-third faster than in the city of San Francisco. The climate here is the most even and bracing to be found in the State. The grounds command a view unsurpassed in the world. The Institution is furnished with an abundance of pure, soft water, from numerous springs; and we now offer to Ministers, Teachers, Lawyers, Singers, Merchants, Mechanics, Farmers, and all other worthy persons, who desire to try the advantage of the only *rational* system of medicine, the hospitalities of our Hygienic Home and Cure. Young men who have become debilitated or lost their health by excessive toil, exposure, or enervating habits, contracted through ignorance of Physical Laws, may with us find more of the encouragements they need, and means that will restore them to health, than elsewhere in California.

We claim for Water-Cure and Hygienic Medication superior advantages over all systems of drug medication in the cure of all disorders, whether acute or chronic, that it is followed by none of those debilitating diseases, such as Piles, Chronic Diarrhœa, Torpid Liver, Constipation, intense Nervousness, Neuralgia, etc., nor those terrible secondary Diseases, known as Varicose Swelling of the Veins, Necrosis, or Decaying of the Bones, Ulceration of the Limbs, Mercurial Rheumatism, Urethal Strictures, etc., which we well know result from the free use of mercury and other metallic drugs, together with calomel and vegetable poisons given to overcome acute diseases.

The Oakland Water-Cure and Eye Infirmary is by far the most complete in its facilities for the cure of all diseases commonly treated in all Eastern Water Cures of any like establishment on this coast, and the only one in California conducted according to the Theory and Practice of the New York Hydropathic College. We use all forms of Warm and Cold Wet Sheet Packs, the Electro-Chemical Bath, Steam Baths, Improved Sitz Baths, Douch Baths, a Patent Spray Bath, and Magic Baths. The last named was in tituted by Dr. Smith with special reference to the cure of those diseases peculiar to miners, namely: Rheumatism, Inflammatory or Chronic, Stiff Joints, Paralysis, Mercurial, Lead, and Oak Poisonings. It is a sure cure for Ague and Fever. It sids more than any other Bath we have yet used in eradicating all kinds of drugs and infectious poisons, and in the cure of all disorders induced by exposure to dampness and water, foul air, absence of light and electricity, recovering metals, the malaria of rivers and low marshy grounds. Where there was a fair constitution left, even when drugs had been applied for months at d years without a cure, we have, in the past seven years, treated successfully the following diseases: Chronic, Inflammatory and Mercurial Rheumatism; Paralysis; Lung, Bronchial and Catarrhal Affections; Diseases of the Heart, Kidneys, Liver; Dyspepsia, Constipation, Erysipelas, Scrofula, Piles, Inflammation of the Bowels, Chronic and Acute Diarrhœa, and all diseases and weaknesses peculiar to males and females. No physician in California is so favorably situated to furnish so many home comforts and hygienic condition that are indispensable to the speedy recovery of nervous and chronic invalids. We have the only truly healthful boarding place in the State for men, women and children, with plenty of saddle and carriage horses for the use of patients and boarders.

To that class of Diseases and Weaknesses peculiar to females, and the medication that Hydropathic or Hygienic physicians employ in their cure, do we wish to call the special attention of patients and their friends. The ease and rapidity with which females suffering from general or special debility, recover in the bracing climate of the Bay, under Hygienic Medication, together with the universal success that has attended the treatment of females at Dr. Smith's Institutions, (both in Sacramento and San Francisco) has induced us to make this class of human affections a specialty of our Institution. We have treated (mostly in the cure), over 300 females, several of whom had been "bed ridden" for months and years, and all have been decidedly benefited, and with but few exceptions, returned to their homes in from two to six weeks, so far recovered as to long or to need a physician. We have never yet learned of a single instance of a relapse into their former condition.

There is not one female invalid in twenty that has been suffering from nervous debility or diseases peculiar to her sex, that cannot be permanently cured by spending from four to six weeks at our Cure, and at the mere cost of $10. This statement we make in confidence, from an experience of the last seven years. From the many who have been treated at our Cure, we have yet to learn of a single regret from husband or wife at the time or means they have expended in Hygienic Medication.

NEW YORK, Aug. 1, 1858.

To all whom it may concern:

This certifies, that Dr. Barlow J. Smith is a graduate of the New York Hygieo-Therapeutic College, which College has a regular Charter from the Legislature of the State of New York, and is authorized to grant Diplomas, conferring on its students all and the same privileges and immunities in relation to the practice of the Healing Art, that are conferred by the Diplomas of any Allopathic or other Medica College in the country.

Dr. Smith has also devoted much attention to Phrenology, especially in its connection with Physiology and Pathology, a portion of the time under the instruction of Fowler & Wells, of this city, and has labored successfully as a teacher and lecturer on these subjects.

R. T. TRALL,
Principal New York Hygieo-Therapeutic College.

To all whom it may concern:

I have known Dr Barlow J. Smith, both in our office a a Student, and a practical Phrenologist in the country, an from what I know of him I can cheerfully recommend him a a real honest, faithful delineator of character, and as such can cheerfully recommend him to the public.

For the good of Science.

L. N. FOWLER, 308 Broadway, N. Y.

Dr. Smith spends a part of each day in San Francisco, attending to family practice and to Phrenological and Physiological examinations at his office, Room 13 Armory Hall up stairs, corner Montgomery and Sacramento street. Office hours from 11 A. M. to 2 P. M. Circulars sent on application. Address,

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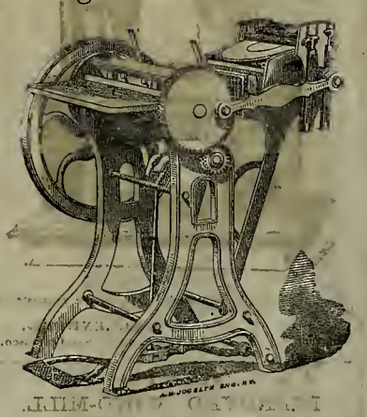

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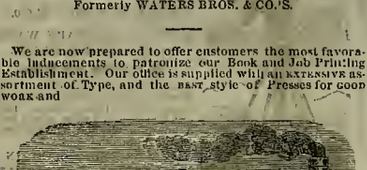

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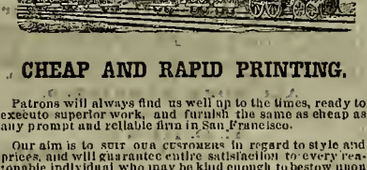

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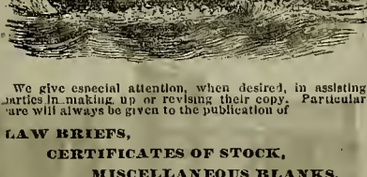

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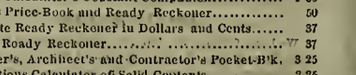

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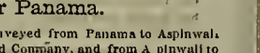

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SAN FRANCISCO, SATURDAY, DECEMBER 9, 1865.

VOLUME XI. Number 23.

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NEW PERPETUAL CALENDAR.—We received a call on Tuesday last from Mr. W. F. Brockway, formerly of Sonora, who presented us with the neatest thing in the way of a calendar that we have ever seen. It is calculated with the greatest precision, giving the means of determining the date or day of the week of any day in the nineteenth century, without thought, calculation, or hesitation of any kind, and all comprehended in a single page, about eight by ten inches in size. This calendar is arranged on an entirely new principle, and is in truth a mathematical curiosity. There are but seven days known to us by name, and every month, year, or century must begin with one of these days. Seven columns are arranged, the first of which gives the names and numbers of the days of a month beginning on Monday, the second of one beginning on Tuesday, and so through the week. These columns are numbered 1, 2, 3, 4, 5, 6, 7, from left to right. Every day of every year (except leap-years) beginning on a certain day, will bear the same name as the corresponding date of any other year (except leap-years) beginning with the same day of the week. Thus, the year 1801 begins on Thursday, consequently the days of January of that year correspond with those in column 4, which represents the days of a month beginning on that day. The number of the year is written down, and in a horizontal line with it, the names of its months, and the number of the column corresponding to each. In the same horizontal line are arranged the numbers of all other years of the century beginning with the same day of the week (except leap-years). Those years beginning with each of the other days of the week are arranged under these in separate horizontal lines, under the name of each month being placed the number of its corresponding column, which column will be the calendar for that month. A similar table is arranged for the leap-years on the same principle, and the calendar is completed. In using it, we first find the number of the year, under the head of "Years," and passing the pencil along the same horizontal line till it comes directly under the name of the month, the figure there found is the number of the column corresponding to that month, in which the date is readily found.

THE "REVEILLE."—This useful and spirited little daily, published away out on the extreme eastern portion of Nevada, has entered upon its fifth volume. The *Reveille* is one of the most active and useful local journals which reaches our table. The liberal use we make of its columns bespeaks the estimation in which we hold it as a co-laborer in the development of the great mining resources of the Pacific coast.

THE WASHOE MINING ASSOCIATION.

We have already made mention of the conception and organization of this association. We have now before us, in the columns of the Territorial *Enterprise*, the Constitution and By-laws of the association, from which we are enabled more fully to learn the plan and object of the same. The association is composed *exclusively* of the superintendents of the mines on the Comstock vein, and the object appears to be, incidentally, we suppose, to promote pleasant and useful intercourse among said superintendents; but primarily to "induce concert of action in matters affecting the mining interests; to encourage and facilitate the interchange of opinion on subjects connected with the working and development of the mines; to procure from every available source all facts and knowledge, both scientific and practical, that may contribute to the better understanding of the Comstock vein and its accessories; to provide and maintain a library of books, periodicals and papers devoted to mining and scientific knowledge, and to obtain a cabinet of minerals and other curiosities illustrative of the nature and character of the Comstock vein and the surrounding country."

It appears that these important ends are to be gained by holding regular monthly meetings for the transaction of general business, and the discussion among members of matters connected with mining interests in general, and for listening to addresses from scientific persons who may be invited to favor the society in that manner. It is also in contemplation to employ a competent engineer to propose and "keep up the maps (working plans, we suppose, of the various mines) of the association, with the monthly developments made in the mines." It is further provided that this officer "shall procure the necessary data either from personal inspection of the mines or from information given him by the engineers of the various companies. He shall make as many sections of the Comstock vein as will tend to show its structure, and the various bodies of porphyry, quartz and clay seams that are explored, which have in them points of interest to the Association. He shall also be required to collect accurate statistics relating to the production of ores from the earliest time, including the difference in the yield of the ore, the change in their nature, etc. Also, all statistics showing the amount of work done in drifting and shafting in the various mines, the consumption of materials of different kinds, and on all other points of general interest. When practicable the offices of engineer and mineralogist shall be united in the same person, and when this is the case, the salary of the position shall be fixed at $300 per month.

Article VIII of the Constitution says: It shall be the duty of each member of the Association to promote its objects and purposes to the extent of his power; to contribute to the collection of specimens and other objects of scientific interest. On or before the twentieth (20th) day of each month to deposit with the secretary maps and sections of the mine he represents, for the preceding month, upon which shall be indicated, as correctly as possible, the lodes of quartz, porphyry and other contents of the vein, the clay seams, the dip and thickness of the walls, etc., etc., to furnish to the Association all information and statistics in regard to his own mine and the developments therein, as may be practicable to furnish, and may conduce to the beneficial interests of the Association; upon the discovery of a new body of ore to give full information thereof, of the dip and strike of the ledge and other particulars concerning it, with in a reasonable time after such discovery, each member exercising a proper discretion as to what such reasonable time should be, with a due regard to his fiduciary obligations to the company he represents, and to cultivate harmony, good will and hearty co-operation among his fellow members in working out the aims of the Association.

Persons other than the "superintendents of mines on the Comstock vein" may be elected honorary members of the Association, with free access to the rooms, library, etc., except at the regular meetings of the Association, and may at any time, on the invitation of the Board of Directors, participate in the scientific and other discussions having a bearing upon the proper development and working of the mines, and other kindred subjects, but shall have no vote on the conduct of the affairs of the Association.

Persons from abroad of scientific attainments, and others distinguished for mining or mechanical knowledge, may be invited to visit the rooms of the Association by a vote of the Board of Directors, or by the President, and shall during their sojourn enjoy the privilege of honorary members.

The expenses are to be met by an initiatory fee of $200 for each mine, and the monthly dues are to be $25 per month for each member, to be paid by the Board of Trustees of each mine through its Superintendent.

The rooms of the Association are opened to members and privileged guests every day from 11 A. M. to 11 o'clock P. M. The regular monthly meetings will be held on the third Monday of each month. We look upon the association as one which, if fully and properly carried out, with due co-operation on the part of the Trustees and other officers of the various mines interested, must be productive of great good, and one which will do very much toward the out swindling and "inside operations which have hitherto been quite too characteristic of Washoe mine management. We do not altogether see the propriety of confining the association to the superintendents of the Comstock vein" alone; although it is perfectly proper that *some* limit of this kind should be fixed to keep the institution free of wild-cat and purely speculative operations. We have given the object and plan of the organization at considerable length, with the view of introducing fully to the notice of miners everywhere on the Pacific coast, and would suggest that such associations should be formed in every community when it could be made practical. We presume that full and complete copies of the Constitution and By-laws can be had on application to the Secretary of the association.

We understand it is in contemplation to organize a similar association, but more polytechnic in character, among practical miners and machinists, in this city, with the view of mutual improvement for discussions and lectures upon various subjects relating to mining, metallurgy and machinery. The plan embraces the collection of a properly classified mineral cabinet, a library, a reading room, an assay office and a model quartz mill, where all the various processes of crushing, roasting and otherwise treating minerals may be seen, studied and practiced. Such an institution, established here, would be of incalculable value, and might with propriety and public profit be fostered by pecuniary aid from the State, and be made the nucleus and basis of the much needed mining college, about which so much is said and so little done.

THE PRESIDENT'S MESSAGE.

President Johnson's Message is now before the country. It possesses the rare merits of brevity and of being well received by both the two great political parties into which the country now, as ever, is divided; nor do either the radicals, conservatives, the go-betweens who swing loose from all parties, find much ground for criticism. From the comprehensive synopsis which we have examined, the President distinctly shows himself to be a plain, outspoken man—a man for the country, and one as utterly devoid of partisan feeling as one can well be in a government such as ours. He regards the late rebellious States as erring sisters, never fully lost, but now desirous of returning once more to the family altar. In opening the door for their return he speaks kindly, but decidedly; interposes no unnecessary obstructions, but plainly intimates that evidences of future fidelity must be given ere the parental threshold is again crossed by them.

On the question of negro suffrage there is no dodging or equivocation. The Government cannot assume the power of granting the right of franchise to the Freedmen. If that portion of our population will exercise patience and display a sufficiency of manly virtues, they may soon win more from the States in which they reside than the federal government could possibly bestow and perpetuate upon them. The federal power, as in duty bound and constitutionally enabled to do, will protect them in all their newly acquired rights as citizens of a general government.

The Monroe Doctrine is virtually and distinctly affirmed. The President evidently intends that no more French troops shall be sent to Mexico, and that Napoleon shall be either induced or forced to let go his hold upon Mexico before the ides of March of 1869.

The Military Force.—The President informs the country that the military force of the field on the first of May last was 1,000,516 men. Over 800,000 of this number has since been mustered out, and the reduction is still going on. The navy, at the commencement of the present year, had in commission 530 vessels, armed with 3,000 guns, and manned by 51,000 men. The number of vessels now in commission is 117, with 800 guns and 12,128 men. The war estimate has been reduced from $516,000,000, in round numbers, to $33,000,000; which amount is considered fully equal to a peace establishment.

Financial.—The estimated expenditure for the fiscal year ending June 30th, 1866, will not exceed the receipts by a sum greater than $112,000,000; while it is gratifying to learn that the receipts of revenue for the next succeeding year will exceed all expenditures by the full amount of $111,000,000. This amount may be applied to the liquidation of the public debt, which, on the 31st day of October last, was $2,740,854,750. This financial exhibit, we are persuaded, is better than the most hopeful could have anticipated.

Communications.

EPARTMENT We invite the FREE DISCUSSION of all ects—correspondents alone being responsible for theories they advance.

[Written for the Mining and Scientific Press.]

Notes and Comments on the late Earthquake.

BY PROFESSOR ROWLANDSON.

The earthquake which occnrred on the 8th of October last, will ever be a memorable one to tbe then residents of San Francisco. During a residence of ten years in the city many shnkes hnve taken place of greater or less intensity, hnt falling short, as far as the writer's observatione have gone, of phenomena described as occnrring in countries where earthquakes more freqnently occnr. Believing tbat correct views respecting earthquakes are calculated to illustrate the mnnner in which mineral veins are formed, nnd partially filled with their valuable metallic contents, I have for many years, in fact long prior to my arrivnl on this coast, been desirous of personally witnessing an earthquake of intensity sufficient to afford a general impression as to the probable exciting cause which gives origin to the eccentric disturbances of the earth's snrface, such as was witnessed in San Francisco on the occasion under notice. I have felt more desirous to witness such nn event, as on almost all the previons occasions of terrene tremors, in this locnlity, my own impressions of the direction of "the wave" have been exactly the reverse of that reported hy the newspapers. Even on the late occasion, several—probnhly a majority—described the wave as passing in a direction the complete reverse of what I felt it to he.

I have waited to learn what might be reported from distant places, and sufficient time having elapsed to render it improbable that anything new will arise hereafter, I take thie opportnnity of recording my own impressions. Previous, however, to giving the detnils, I wish to call particular attention to one remnrkable fact—namely, that although the earth'e tremor was distinctly felt one hnndred miles north from San Francisco, and possibly exercised an influence at Mount Hood as well as more than one hundred miles to the westward from the Pacific shore, yet singular to relate, no report has appeared that the earthquake was felt south of the southern margin of the hay of Monterey; yet on the northern margin, not twenty miles distant, the earthquake exhibited its most violent and destructive effects—namely, at Santa Cruz and nlong the lower part of the Pajaro river. For the convenience of the distant reader who may be unacquainted with these localitiee, it may be mentioned that Santa Cruz and the Pajaro river lay about one hundred miles, in a direct line, south of San Francisco. Nor were the disturbances felt at any distauce from the coast; no ocean-going vessel having felt them; but coasting vessels, only a few miles from the land, and boats in the bay, felt their effects, which have been almost invariably described as resembling those which would occur if some huge sea monster was making a rubbing-post of the bottom of their different barques. I ehall hereafter briefly allnde to these circumstances, and shnll now proceed to describe my personal impressions and observations.

Owing to indisposition I had not left my bed, and was, consequently, as will be hereafter ehown, lying in a position better calculnted to remark the course of the two chief shocks than the bulk of people at mid-day. In corroho-rution, however, of my own observations, I may mention that a few minutes previous to the occurrence of the ebock, Mrs. R. had come into the room with a newspaper, and for the couvenience of light was reclining nn the bed in an opposite direction to tbat in which I was lying, her head pointing nearly dne east, mine nearly due west—both shocks were felt by me, first at the right shonlder, and thence passing off by the left foot; while Mrs. R. described the feeling as if the wave firet touched her left foot, nnd passed away over the right ehoulder. These facts, together with others which will be hereafter mentioned, have satisfied me that the two great waves of disturbance flowed in a direction from west to east. Previously, however, to the commencement of any disturhance occnrring in that direction, we hoth had our attention drawn to a kind of rubbing and lifting tnking place at the sonthwestern corner of the house, which must he pretty nenrly in a direct line north of the probahly initial point of disturbance, near the month of the Pajaro river. The ruhhing impression was stronger than could he expected to be occasioned by any ordinary-sized animal, and the lifting gave rise to one or two jerking sensations, as though the house and supporting posts had been bodily lifted from the grounn nbout a quarter of an inch, and afterwards snddenly dropped. This caused Mrs. R. to call my nttention to the snbject, inquiring what wus the cause; having simultaneously remarked the circumstance, I gave it, as my opinion, that it appeared like the commencement of an earthquake; sbe replied she thought it was something of the kind. Immediately succeeding the last remark tbe first west and east wave occurred, feeling much the same as what is felt on board a large vessel when a heavy sea overtakes and passes under her without breaking. The second wave, which soon followed, came more ahruptly, accompnnied with something like n sharp blow or thud, which was felt as though coming from immediately beneath, and was immedintely followed by a most indescribahle series of complex motions, ns if the house was dancing in a hroken sea, in a manner similar to tbat in which peas or sand are made to dance on a tambonrine, the bottom of which is being disturbed with slight blows or movements of the finger. At the climax of this singular disturhance, all motion suddenly ceased; the instantaneousness of which was probably as startling as any of the phenomena counected with the enrthquake. Prior to the ceasing of the movements which have been just described, I wns more than once upon the point of rising for the purpose of viewing the hay, and to ascertain what was occurring nt the surface of the earth aronnd me; for I was prepared to see the one greatly disturbed, and the other fissured. I wns however kept in my recumbent position, noting the fantastic flings and jigs which tbe room was makiug in its eccentric fandango.

On rising nnd viewing the bay, to my great surprise nothing unusual was noticenble. As, however, I stood nt a distance of fully one thousand feet from the margin, such an appearance is by no means incompat hle with the observations made hy others sailing over its surface—that it was covered with air bubhles and small hroken waves—both of which facts have been alluded to and reasonably accounted for in articles which have previously appeared in this journal. I have been minutely circumstantial in describing the occurrences as they happened to me at the commencement of the earthquake, in part from a desire to draw attention to the time which it has been stated to have occupied. The conversation named (which was not hurried) must have occupied full if not more than the fifteen seconds commonly attributed as the time which the disturbances occupied. Perhaps, however, the preliminnry, crushing motion from the south has not been included in the fifteen seconds mentioned ns the duration of the earthquake. In fact, excepting some neighbors to whom I mentioned the former circumstance, I have not seen or heard any mention nnde of the grinding or crushing motion alluded to as coming from the south; yet there wns such a motion, and accompanied by a pressure of grent power and intensity, the most marked exhibition nf wbich was displayed by some pieces of the rock, situate on the south eide of a stone-quarry which is opened in Centre street, between Jersey and Hampshire, being thrown out of plnce; and if the buildings, with one exception, together with the cracked walls, occasioned by being built on new and unconsolidated land, are excluded, it will be found that nearly all the damage which occurred took place on the east and south walls of the structures injured. The exception is Popper's building, on Third street, where a large part of the southwest front caved in. This was evidently occasioned more by the giving way of a pillar, or a slight arch, rather than by the earthquake shock. Two gentlemen of my acquaintance were conversing on the opposite side of the street at the time, nnd they describe the affair as a sliding down, apparently, in consequence of some weak part having succumbed, rather than as thrown down by the shock. One gentleman, driving n buggy near the Mission, assured me that he was not aware of the earthquake until informed of it on arriving in the city. Another, passing up Jackson etreet in a railway car, immediately preceding tbe falling of a wall then in course of erection, did not feel the ehock nor become aware of it until he made eome inquiries in consequence of observing several excited groups of people.

The great phyeical phenomenon, however, is the fact thnt from the northern shore of Monterey Bay to Mount Hood, a distance of more than six hnndred miles, the disturbnnces were more or less apparent, terminating at Mount Hood in volcanic action, and at Goose Lake, in the Sierra Nevada, in numerons water-sponts, whilst the shock was not sensible twenty miles sonth of that line.

This description has reached a greater length than I nnticipated, and compels me to omit some other incidents as well as suggestions respecting the erection of huildings, in fnture, in order to avoid accident as much as possible from enrthquakes.

[Written for the Mining and Scientific Press.]

Gold-bearing Sulphurets and their Reduction.

BY JOHN SCOTT, METALLURGICAL CHEMIST.

As much interest is manifested at the present time in the mining community of California, concerning the introduction of an effectual and economical method of extracting the precious metal from the large quantities of gold-bearing snlphurets of iron, which are so extensively found in various parts of this State, and which are almost valueless to their owners because no really practical and cheap method of working them has as yet heen successfully carried into effect, I hnve thought the following remarks in relation to their treatment might be of sufficient interest to your readers to secure a place in the columns of the PRESS. Having conducted numerous experiments during the lnst eight years on that class of minernls, for the purpose of arriving at a solution of the problem of their economical working, I shall ennmerats some of them, and endeavor to point out what I consider to he an effectual method for the purpose, describing first a process of my own invention, which gives the desired result, but which was abandoned by me on account of the grent expense attending it, and the tardiness of the operation. By means of this process the whole of the pyritous matter was converted into magnetic oxide of iron, the precious metnls being left in n "free" state, capahle of being extracted by amalgamation, none being lost during the operation by volatilization or otherwise. I took the sulphurets, mixed them with carbon and placed them in appropriate vessels, excluding atmospheric oxygen, while a current of steam wns made to act on the mixture, it heing maintained at a hright red heat. The use of the carbon wns to render the mnss permeahle hy vapor and prevent fusion of the proto-sulphurets; the hydrogen of the decomposed steam united with the sulphur of the mineral, and was carried off principnlly in the state of sulphnreted hydrogen, while the oxygen nnited with the iron, forming an oxide having the formula $Fe_3 O_4$.

The common method ndopted for desulphurizing the mineral is to roast it, in a finely divided state, with constant stirring, on the eole of a reverberatory furnace, with the assistance of heat and atmospheric oxygen, until it be completely per-oxidised. By means of this metbod the precious metals are "freed," when coutained in bi-sulphide of iron, and may be extracted by well known methods, but unfortunately (this being an almost universally admitted fact) from twenty to eighty per cent. of the precious metals, especinlly gold, is carried off, mechanically, in a fine state nf division, along with the dense fumes of sulphurous acid gas which are generated during tho decomposition of the mineral, and which is lost, unless eome means be employed for its collection.

Another method is the "Chlorination process," which demands, as in the former, a similar oxidation, and hence being subject to the same loss of gold previous to the treatment of the mass by chlorine and precipitation of the gold by proto-sulphate of iron. The gold by this process is obtained nearly pure, in the state of a fine brown powder, which is afterwards melted into ingots, while the silver that was associated with the gold is lost, unless it be afterwards recovered by treatment with some liquid capable of dissolving tbe chloride of silver formed, which would be an expensive process, when the argentiferons metal exists only in small quantities in the alloy contained in the mineral.

Several new "inventions" have been made lately in the shape nf furnaces, to do the work of desulphurizing and oxidizing the sulphurets; but I nm not aware that any have yet answered the expectations of the inventors. Among them I may mention "The Gold and Silver Separating Company's Furnace," (Dr. Hagan's), the performance of which I was requested to examine, in my professional capacity, the result of which may be interesting to many of your readers, and as I have the permission of the party for whom I made the examination to make it pnblic, I will do so.

The object was to ascertain if the mineral operated on (bi-sulphide of iron) was completely desulphurized; if not, to what extent; if any loss nf gold occurred during the treatment; the amount extracted hy amalgnmation, and the state of the refuse after amalgnmation. Samples were furnished me for the purpose. The mineral had been treated in lumps; heat, atmospheric oxygen and super heated steam being used. The mineral wns thus treated, as I was informed, during forty-eight hours. The result of my examinations was as follows:

First—Assay of the crnde sulphurets: Gold $301.72; Silver $3.76=$395.48 per ton.

Second—Analysis of the crnde sulphurets: Gold 0.065; Silver 0.010; Iron 33.570; Sulphur 38.370; Silica (quartz) 26.730.

Third—Assay of the mass after treatment: Gold $329 50; Silver $3.02=$332.52 per ton.

Fourth—Exnmination of the treated mass for sulphur only, which wns found to exist (partly in bi-sulphide of iron and partly in magnetic snlphuret) to the extent of 17.230 per cent.

Fifth—Assay of the bullion extracted hy amalgamation, its weight was 1.47 ounces—Gold 836 fine, value $25.40; Silver 131 fine, value $0.25; full value $25.65.

Sixth—Assay of the tailings $146.12 per ton.

From which I conclude that nearly sixteen per cent. of the precions metals wns lost dnring the treatment; that tbe mineral wns desulphurized to the extent of fifty-five per cent.; that fifty-two per cent. ($205.12 per ton) of the precious metals was extracted hy amalgamation, and that thirty-two per cent. wns left in the tailings. How can steam, superheated or not, he nnde to permeate a solid mass of ore, be the construction of the furnace what it may?

I will mention, in conclusion, some of the merits of a new desulphurizing furnace invented hy Mr. White, of New York, and described in your valuable journal of date Nov. 11th. The object sought to bc nttained by it is likewise oxidation of the sulphnrets, nnd isolation of the precions metals. It would be liable to the loss of gold, already mentioned, if it were not for the coil of pipe in the chimney, from which jets of cold water are ejected; and I have no besitation in asserting that hy means of the condensing effect of this arrangement nny fine particles of gold, mechanically carried off, would be precipitated into the trough below and recovered, nlong with the oxidized minernl. Its chief merit consists, in my opinion, in the mode of feeding the stamped ore, in small qnnntities at n time, and continuously, whereby every particle must come in intimate contact with the heated oxygen of the atmosphere, over and over again, during its passnge through the furnace, thus securing a complete oxidizement and consequent isolation of the precious metals.

Wishing prosperity to a successful reduction of the precious metals from the sulphurets of iron, I commend Mr. White's furnace to the attention of the miners of Californin ne heing the best invention for the purpose I have yet seen or heard of.

NARROW ESCAPE.—Some time last week a cave occurred in a drift in the Chollar-Potosi mine, shutting in back of it twn men who were working in it. This state of affairs was not discovered till the roll of the men was called for a change of shift of the morning watch, when it was found that there were two miners missing. Instant search was instituted for them, when it was discovered that their drift near where they hnd been at work had caved in for quite a distance. Men were set to work immedintely to relieve them, and a party dispatched for Dr. Broneon to be on hand to administer to these buried men, if nny medical aid was needed; hut after a short time working the men were rescned alive and without injury. It was a happy termination of an affair that looked so serious at first.—*Gold Hill News.*

COAL has been discovered in the Reese River country. It is described as being older than bituminous coal or lignite, and is undoubtedly anthracite coal highly silicified. The vein is about five feet thick. It is highly carbonized, yields a good degree of heat, and wholly burns to white ash.

MORE MALICIOUS MISCHIEF.—Some villains cut down and destroyed about 500 feet of the miners' ditch flume, near Snow Point, on Monday night last. It is supposed to have been done by the same parties who attempted, some weeks since, to destroy the Magenta flume.

Useful Information.

The Philosophy of Sleep.

NUMBER FOUR.

HOW TO PROTECT ONE'S SELF IN DEEP SNOW.

The following remarks by Dr. Maenish, in relation to this subject, are extremely interesting. The practical rule is excellent, and the fact explains how animals may hybernate in snow.

"If a person is unfortunate enough to be overtaken in a snow-storm, and has no immediate prospect of extrication, he should, if the cold is very great, and the snow deep, sink his body as much as possible in the latter, leaving only room for respiration. By this plan, the heat of the body is much better preserved than when exposed to the influence of the atmosphere, and life has a greater chance of being saved; for the temperature of the snow is not lower than that of the surrounding air, while its power of absorbing caloric is much less. It is on this principle that sheep live for such a length of time enveloped in snow-wreaths, while, had they been openly exposed, for a much less period, to a similar degree of cold, death would inevitably have ensued."

A CURIOUS EXPERIMENT.

Dr. Darwin mentions that a person placed upon a mill-stone, revolving rapidly, is thrown into sleep. I cannot find the facts upon which this statement is grounded. But I conclude that pressure upon the brain, and stupor, would be the natural physical and physiological consequences of such an experiment. Dr. Maenish observes, "By lying flat upon a millstone while performing its revolutions, sleep is soon produced, and death without pain would be the result, if the experiment would be greatly protracted." Sir John Sinclair says, "The celebrated engineer, Brindley, often saw the experiment tried, of a man extending himself across the large stone of a corn-mill, and gradually falling asleep by the stone whirling round, before the stone had gained its full velocity.

AN AFTER DINNER NAP SHOULD BE AVOIDED.

A hearty meal produces somnolency. The effect probably ensues from the temporary exhaustion of the brain, caused by the determination of the blood and nervous energy to the stomach. The sleep which follows is heavy and disturbed. It should not be indulged in. It carries no refreshment with it. The laboring digestion requires the stimulus of waking to help it. A hearty meal should therefore never be taken late at night;—*then*, in addition to the reasons against it, which have been stated, the system is already exhausted by the day it has toiled through.

FOOD A SUBSTITUTE FOR SLEEP.

A good meal at night, may be taken with another view. Suppose you have to watch, and not to sleep; it is sure that food is, to a certain extent, a substitute for sleep, and in that case, may be used as such. This means, however, can be resorted to by those only whose digestion is strong.

It has been remarked that those who eat heartily, and have strong digestive powers, usually sleep much. Those who do so, try their constitutions severely, and fall into dangerous plethora. The habit becomes gross and overloaded, and exposed to a troop of illnesses. One mode of relief is occasionally present in such cases in the shape of profuse perspiration. But this, as it is highly relaxing, lowers the tone of the system and weakens the person who so indulges in body and in mind.

PREPARATION FOR SLEEP.

A sleeping-apartment should be well ventilated; it is therefore desirable in winter to have a fire in a bed-room, or in a dressing-room opening into it. The bed had better stand detached from the wall for the same purpose. The curtains should not be drawn close; the quantity of covering should be regulated by the temperature of the weather. Dr. Rush observes, "Warm bed-clothes are especially proper to preserve or increase the heat of old people. From the neglect of this observance, they are often found dead in their beds in the morning, after a cold night, in all cold countries. The late Dr. Chovet, of New York, who lived to be eighty-five, slept in a baize night-gown, under eight blankets and a coverlit, in a stove-room, many years before he died."

It is best to sleep in a linen or cotton night-dress, which should be loose at the wrist and neck. Half the physical refreshment of sleep depends upon the laying aside the weight and constriction of ordinary dress.

It is best to sleep on a mattress,—but in this, as in everything else, change is preferable; in winter a feather-bed not too soft, in summer a hair mattress, may be used.

The shutters should be closed, in winter for warmth, in summer to save the eyes from the morning light.

During sleep, the pupil of the eye is instinctively diminished to a most minute aperture. This fact, which I do not think had been before observed, I learnt when living as house-surgeon in the Middlesex Hospital, in 1818.

The means that we use to induce sleep are founded upon principles which have been already explained.

We close the avenues of sensation, as far as we are able; we dispose our bodies in a posture of complete relaxation, and ease, and passive support, and endeavor to divert our minds from all subjects that excite activity of thought or disturbance of feeling. We strive to forget ourselves, by detaching our minds from thought, and endeavoring to be lost in the sensation of physical rest.

When sleep shuns us, and the mind falls into exciting trains of thought, the best plan is to rise, and read for a short time some work of a light and amusing character, that has no connected argument or story to engage the mind.

POSTURE, IN SLEEP.

The following rules relate to the posture to be maintained in sleep. They are from the Chinese. In substance they are excellent.

"As soon as you are in bed, you should lull the heart to sleep; I mean, you should compose it, and cast aside every thought which may banish sleep. Lie upon either side, bend your knees a little, and sleep in that posture; which will prevent the dissipation of the vital and animal spirits, and keep the heart in good case. Every time you awake, stretch yourself in bed. This will render the course of the spirits, and the circulation of the blood, more free. 'Sleep not in the posture of a dead man,' says Confucius; that is, lie not on your back. Let not your hands rest upon your breast or heart, and then you will have no frightful dreams, or fancy that some *yen*, or evil spirit, oppresses you, and holds you, as it were, benumbed, so that you cannot help yourself by shaking or changing posture."

DISTURBANCES IN SLEEP.

When our sleep is disturbed, either from indigestion, or uneasy thoughts, or uneasy bodily posture, a variety of sensations occur, to which we experience nothing parallel when awake.

The most agreeable of these sensations is that of flying; it is unattended with any idea of exertion, but consists in a sense of easy motion, in which we seem to glide, supported upon the air.

Another sensation which is much more common, is that of tumbling over and over; it has some analogy to the preceding; there is the same idea of want of support present, but instead of floating in the empyrean, we appear to fall headlong perpendicular, and awake startled.

Nightmare is a sense of oppression on the chest, felt during sleep, arising either from indigestion or from the posture in which we lie. It is always attended with a vague sense of terror, and of inability of exertion. Any kind of frightful dream may go with it. The extremity of suffering wakes us; and there is generally a brief but appreciable interval, between the imperfect recovery of our recollection of where we are, and the cessation of the seeming powerlessness. Immediately after being awake, we exert volition, move, and the uneasiness is at an end.

A frightful dream alone, is not nightmare. It becomes so when joined with an ideal effort at exertion, and a persuasion that it is impossible to make it.

[To be Continued.]

INDIA RUBBER.—A paragraph in the *North American Review* says there are now in America and Europe more than 150 manufactories of india rubber articles, employing from 300 to 500 operatives each, and consuming more than 10,000,000 pounds of gum per annum. The business, too, is considered to be still in its infancy. Certainly it is increasing. Nevertheless there is no possibility of the demand exceeding the supply. The belt of land around the globe, 500 miles north and 500 miles south of the equator, abound in trees producing the gum and they can be tapped, it is said for twenty successive seasons; 43,000 of these trees were counted in a tract of country thirty miles long and eight wide. Each tree yields an average of three tablespoonfuls of sap daily, but the trees are so close together that one man can gather the sap of eighty in a day.

A YELLOW PERPETUAL ROSE, it is said, has been produced by the celebrated culturist of roses, M. Lacharme, of Lyons. The color is represented as bright yellow, changing to pale buff, the form good, and petals of good substance.

Ameri an Wonders.

The greatest cataract in the world is the Falls of Niagara, where the water from the great upper lakes forms a river of three quarters of a mile wide, and then being suddenly contracted, plunges over the rocks in two columns to the depth of 170 feet each.

The greatest cave in the world is the Mammoth Cave of Kentucky, where one can make a voyage on waters of a subterranean river, and catch fish without eyes.

The greatest river in the world is the Mississippi. 4,100 miles in length.

The largest valley in the world is the Valley of the Mississippi. It contains 500,000 square miles, and is one of the most fertile and profitable regions on the inhabited globe.

The largest lake in the world is Lake Superior, which is truly an inland sea, it being 430 miles in length, and 1,000 feet deep.

The greatest natural bridge in the world is the Natural Bridge over Cedar Creek in Virginia. It extends across a chasm 80 feet in width and 250 feet in depth, at the bottom of which the creek flows.

The greatest mass of solid iron in the world is the Iron Mountain of Missouri. It is 250 feet high, and two miles in circuit.

The largest number of whale ships in the world were formerly sent out by Nantucket and New Bedford.

The largest single volume ever published is Webster's Unabridged Dictionary, an American work—the best in the language—containing as much matter as six family bibles.

The largest aqueduct in the world is the Croton Aqueduct in New York. Its length is forty and one half miles, and it cost twelve and a half million dollars.

The largest deposits of anthracite coal in the world are in Pennsylvania—the mines of which supply the market with twenty millions of tons annually, and appear to be inexhaustible.

The largest grain market in the world is Chicago.

The most gigantic tunnel in the world—in comparison with which the London *Times* calls the Thames tunnel the "shadow of a shadow"—is now being carried for two miles under the bed of Lake Michigan, for the benefit, and at the expense of the city of Chicago.

The most remarkable reversal of nature's works ever known is now going forward in the case of the river Chicago. Instead of flowing *into* Lake Michigan as nature made it, in a couple of years it will be made to draw water *from* the Lake and carry it into the Illinois and Mississippi rivers, thence into the Gulf of Mexico.

A REMEDY FOR CRACKED HOOFS.—A practical farmer at Pleasant Valley, Ohio, has discovered a remedy for cracked hoofs: Take a piece of copper four inches long and two inches wide, and bore eight holes in it, four at each end, so as not to interfere with the crack; then take a hot iron with a sharp edge, and burn the crack at the edge of the hair till it goes through to the quick. After this, let the horse run on pasture, and it will begin to heal up in a few weeks. This remedy I have tried, and it did the work complete, and I worked the horse all the time. Care should be taken to close the crack tight before the plate is fastened on.

FOOL-HARDY AND STARTLING.—The citizens of San Francisco, for the last few weeks, have been witnessing the foolish performances of several members of the "Buisley Family," suspended by ropes from a balloon in mid-air. These blood-curdling and fool-hardy exploits are productive of no possible good, and as an amusement, apart from the day on which they take place, are demoralizing in their influence, and have a tendency to weaken and break down the fine sense of susceptibility which should be the pride of every civilized community. The same class of performances are gone through with by others, and may be repeated by any skillful gymnast, who possesses a sufficient recklessness of danger to do so. They are accomplished, even more startling in character, by one Henry Leslie, in connection with the balloon ascensions of Prof. Lowe, from the New York Central Park. A late exploit is described as follows:

When the balloon was over a thousand feet high, two ropes were dropped out and Leslie threw himself from the car, catching one of the ropes in his fall. His first feat was hanging by one hand, when he changed his position, and hung by his feet for some time. Scrambling up the rope, he next placed the loop under the back of his neck, and there, swaying backward and forward, he remained for some time. His next feat was suspending himself by the chin, and at this time he could not have been less than half a mile high. In this position he dangled in the air, till finally, when in the neighborhood of High Bridge, he struck an attitude, placing his head in one loop, and his feet in the other, and in this horizontal position, allowed himself to be toyed with by the winds. At this point Lowe insisted on his returning to the car, and he did so.

Route and Construction of the Pacific Railroad.

The following extract from a most interesting letter from Samuel Bowles, Esq., editor of the Springfield (Mass.) *Republican*, and member of Colfax's overland party, contains some valuable information in regard to the Pacific Railroad:

As to difficulties of construction, heavy grades and high mountains, and the winter snows as obstacles to continuous use, the first third of the line, from the Missouri river to the Rocky Mountains, is merely baby-work. Three hundred men will grade it as fast as iron can be laid. It is a level, natural roadway, with very little bridging, and no want of water. It is a shame that all this section is not finished and running already. The first of January, 1867, ought now to be the limit for its completion. From here to Salt Lake, over the Rocky Mountains, there are apparently no greater obstacle to be overcome than your Western road from Springfield to Albany, and the Erie and the Pennsylvania Central have triumphantly and profitably surmounted. There are various contesting routes, northerly by the North Platte and the South Pass; by the South Platte and Bridger's Pass, which is the route we traveled in the stage; or more direct still, from Denver through the present gold mining region of Colorado by Clear Creek and over the Berthoud Pass; or again by a kindred route to the last, up Boulder Creek and over Boulder Pass, both these two entering the "Middle Park" of the mountains, and through that to the head waters of the Salt Lake basin. Our stage teams trotted up the hardly perceptible grades of the Bridger route without any effort. Coming down into Salt Lake Valley there would be rougher work; but there are several considerable streams along whose banks the track could be brought, I am sure, with no greater labor or expense than has been incurred in a dozen cases by our English railroads.

From Salt Lake to the Sierra Nevadas are two routes: southerly through the corner of Nevada, and striking Austin and Virginia City, the centers of the silver mining region—which is the present stage and telegraphic route—and northerly by the Humboldt river. The former would pass more directly through the chief present and prospective populations; but it would encounter a dozen or fifteen ranges of hills, to be crossed, and find little wood and scant water. The Humboldt route would be more cheaply built, and goes through a naturally better country as to wood, water and fertility of soil. It is generally conceded to be the true natural highway across the continent. The immigration has always taken it. If the railroad is built through it, Virginia City and Austin will be reached by branches dropping down them through their neighboring valleys.

Now we reach the California border, and the toughest part of the work of the railroad—the high-reaching, far-spreading, rock-fastened and snow-covered Sierra Nevadas. But the difficulties here are mitigated by plenty of water and timber, and by the near presence of an energetic population, and are already being practically overcome by the energy and perseverance of the California Pacific Railroad organization. I only wish the East would get to Salt Lake with their rail so soon as the West can and will with theirs. Let me state the condition of the work on each end of the line.

Congress has given princely bountiee to the enterprise, all that could be expected, everything that was asked. Government bonds are loaned to it to the amount of $16,000 a mile through the plains and $48,000 a mile in the mountains; besides which, half of all the land each side of the road for twenty miles deep is donated outright to the companies doing the work. The Union Pacific Railroad Company is reorganized at the East, and the Central Pacific Railroad Company here, as entitled to this bounty and respectively authorized to construct the road from their starting points until they meet. The companies are further authorized to issue their own bonds to an equal amount to those granted by the Government, and secure them by a first mortgage; the Government loan taking the second place in security.

THE Grass Valley *National* says: "A very singular kind of rock is found in a quarry near Dutch Flat, and is coming into use as building material, several houses having been constructed of it at Dutch Flat. It lies in masses, and is easily cut into blocks of any size by an axe, yet is sufficiently compact to serve every purpose to which brick or stone may be applied. It is both fire-proof and water-proof. Rock of a corresponding value, if not of similar quality, is found in the hills between Napa and Clear Lake Valleys.

City Stock Reports---San Francisco Stock and Exchange Board.

From the "Weekly Stock Circular" of the Associated Brokers.

San Francisco, Saturday Morning, December 9th, 1865.

With this nnmher ths Stock Circular enters npon the third year of its existence. Dnring the past two years we have endeavored to present a faithfnl record of ths market, nnd aimed to impartially set jorth, from time to time, so far as it were possihle, the actnal condition of all claims commonly dealt in nt thc Board, and the same policy will be adhered to in the future.

Ths money market has presented no material changs since onr last reference. There is, if anything, a slight ahatement in the demand. The general inactivity of trade occasions a moderate reqnirement for business purposes, and there is no longer mnch excitement npon the Stock Exchange. Most merchants have done a profitahle hnsiness this year, and ars now in a comfortahle condition. Bank accommodations rnls for the most part at 1¼@1½ ₱ cent. per month, and out-door transactions are mads at 1½@2½ ₱ cent.

Receipts of treasurs from domestic sonrces, since the 30th ult., havs amounted to $1,550,000, including nearly one million dollars from the North coast. The Branch Mint in this city, during the same period, has taken some $450,000 for coinage. For the accommodation of the pnhlic, the Annnal closing of that estahlishment is postponed until Wednesday, Dscemher 20th, to which day inclusive deposits of hoth Crnde and Refined Bnlliou for coinage will he received.

Yesterday a good demand prevailed for Bullion, with a light supply on the market. Gold hars were held at 860 and 865, at which rates considerable transactions were made, and silver sold at ahout ½ ₱ cent. preminm for hars of average fineness. Currency Bills on ths Atlantic for this steamer were offered at 42@44 ₱ cent. premium on gold, and Telegraphic Transfers ruled as formerly, 3 ₱ cent. prsmium. Sight Drafts payahls in coin may he quoted at 1¾@2 ₱ cent. preminm, and Sterling Exchange at 48¼@48½d. for Bankers Bills; Commercial do. at 49½d.

Legal Tender Notes have heen rather mors nctivs this week, and largs sales were made within a range of 65c., seller 30, and 66½c. cash.

We are reqnested to givs notics to the Stockholders of the Chollar Silvsr Mining Company, and the Potosi Gold and Silver Mining Company, that nnless they shall, on or hefors ths 15th day of Decemher inst., present their certificates of stock and receive instead thereof certificates of ths Chollar-Potosi Mining Company, they will lose the benefit of the stipnlations for compromise, entered into hetween the two first-named companies. After ths 15th day of Decemher inst., no more stock of the Chollar-Potosi Mining Company will he issued to individuals holding certificates either of the Chollar Silver Mining Company or the Potosi Gold and Silver Mining Company.

The mining share market is still very much depressed, and a further decline has heen estahlished in a nnmher of stocks. With trifling exceptions, not much sustaining power is visihls, and yet recent developments in certain portions of the Comstock lode are thought to be more promising than for months past. Confidsnc in the futurs productiveness of all claims seems to he so severely shaken, that little or no attention is now pnid to their real value, and until a hetter feeling is inaugurated among dealers, no permanent improvement is likely to take plncs.

Gould & Curry has heen wsll maintained, nnd 10 feet wers sold within a range of $950@$975, closing yesterday nt $1,000 asked. Thers is no new features in this claim. The annual meeting of the stockholders, for the election of Trustees and transaction of other business, will he held at the offics of the company on ths 18th instant.

Savage has heen actively dealt in at cnhanced rates, nnd 125 feet changed hands; advancing from $640 to $740, receding to $720, rising to $800, huyer 30, dropping to $775, and selling yesterday nt $795@$760. In the lower level the hody of ore recently developed is said to he 70 feet in width and over 150 feet in length. An average of nearly 200 tons of ore is now daily hoisted to the surfacs from different portions of the mine.

Alpha is in less favor. Small sales were made within a range of $630@$675, closing at $615 hid. The McCurdy snit against this company, involving ahout 20 feet of ground, resulted in favor of the plaintiff. The 650-feet cross-cnt east of the engine shaft, has now explored ths lode from east to west, a distance of 200 feet, and it is found to contain a stratum of ore, some 40 feet wide, lying agninst the east or hanging wall.

Yellow Jacket has been active, and 130 feet were sold, advancing from $510 to $535, steadily receding to 477½, and selling yesterday at $455@$350. During the week snding Novemher 20th, 931 tons of ore wers extracted from the mine, and 844 tons wers worked—577 tons at Morgan mill, and halance at custom mills—yielding $24,579.25, or an average of $29.12. For the week ending Novemher 27th, 987 tons were extracted, and 1,266 tons worked—900 tons at ths Morgan mill, and halance at outside mills—yielding $36,280.68, or an averags of $28.64.

Crown Point has finctuated materially, and some 25 feet wers sold within a rangs of $700@$520, closing at $540@$520. Dnring ths week ending Decemher 2d, 362 tons of ore were raised from ths 230-feet level, and 10 tons from the 300 feet or lower level. From the 230-feot level the north incline is down 68 feet, the south 78 feet, nnd the west 55 feet, all of which are said to look well. Dnring ths month of Novemher 840 tons of ore were worked hy the Rhode Island mill, and 220 tons wers crushed hy the Crown Point mill. Belcher fell from $300 to $280, rallisd to $295, and closed nt $275.

Ophir fell to $350, rallied to $365, receded to $342½, ross to $350, and closed at nhout $340. A hody of ore has heen met with above ths 4th gallery, 90 feet from the surfacs, in ths south mine, some 60 feet in length and 3 feet wide. This is considered a valuahle discovery, as it may lead to vcry extensive hodies of ore, which, if they exist, ars yet unexplored in the upper levels.

Chollar-Potosi has heen exceedingly nctive, and 425 feet were sold, advancing from $226 to $245, declining to $195, rallying to $210, then dropping to $185, and selling yesterday at $162@$165. During the week ending Decemher 1st, 249 tons of ors wors sent to cnstom mills, 56½ tons first-class were sacked, 29½ tons were sold at $10 per ton, 56 at $6 and 393 at $5 per ton. The Grass Roots station is prodncing the nsual quantity of ore. Both ths lower and upper stopes of the Bajazette ground are said to look well, showing from four to fivo months' supply of ore in sight. Between ths 3d and 4th stations of the old works in ths Chollar, a senm of good ore has heen met with on ths east side.

Empirs Mill Mining company rose from $175 to $195, dropped to $180, rallied to $190, and sold yesterday at $185. The company's two mills are now reducing daily soms 56 tons of ore and tailings, the former heing mainly taken from the new deposit found in the upper part of the mine. Hals & Norcross has heen dealt in within a range of $190@$163, closing nt $165.

Imperial fell from $125 to 97½, seller 30, then sold at $104@103, and was dealt in yesterday at $106@$107. Receipts of Bullion last month amounted to some $75,000, hut were not deemed sufficient to warrant the payment of a dividend.

Bullion fell to $27, rose to $30, declined to $22, rallied to $27, nnd sold yesterday at $24@21. Overman declined from $46 to $29½, rallied to $32, then sold at $28½ and closed at $30. Confidence has heen dealt in within a range of $50@$47½, closing at $50.

Ths aggregate sales of Stocks, since Saturday last inclusive, amounted to $633,093.

Fluctuations in Leading Mining Shares for the past Six Months.

Name of Company.	June 1st.	Jnne 10th.	June 20th.	July 1st.	July 10th.	July 20th.	July 30th.	August 10th.	August 20th.	Sept. 1st.	Sept. 10th.	Sept. 20th.	Oct. 1st.	Oct. 10th.	Oct. 20th	Nov. 1st.	Nov. 10th.	Nov. 20th.
Gould & Curry.....per ft.	1,525	1,625	1,645	1,750	1,750	1,730	1,500	1,500	1,475	1,135	1,300	1,240	1,250	1,000	1,015	1,010	1,100	875
Ophir.....	435	480	500	495	485	530	425	400	390	250	385	415	340	515	380	425	392	340
Savage.....	1,190	1,150	1,425	1,375	1,400	1,310	1,175	1,220	1,300	1,300	1,225	1,215	1,225	1,075	930	890	765	525
Potosi.....	202	312	457	332	350	395	480	465	460	440	420	410	472	455	355	350	308	270
Chollar.....	215	317	473	345	370	410	500	490	500	475	455	420	500	480	370	375	308	270
Hale & Norcross.....	440	490	650	560	555	570	525	520	510	480	520	550	750	475	325	305	205	155
Sheba.....	15	15	18	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Daney.....	15	15	15	14	....	14	....	50	70	43	40	40	35	20	15	10	15	8
Wide West.....	5	4	3	7	8	5	....	....	....	....	....	....	6	....	....	....	....	....
Burning Moscow.....	40	46	57	34	29	25	29	25	34	23	20	5	....	....	....	....	....	....
Pride of the West.....	....	350	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bullion.....	135	130	155	149	175	180	175	157	175	150	....	125	126	125	70	62	57	33
Real del Monte.....	12	10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
El Dorado.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Overman.....	115	100	120	180	342	305	200	241	213	190	135	170	175	150	100	95	52	42
Sierra Nevada.....	13	12	14	15	10	14	25	29	18	19	22	21	17	22	12	10	12	8
Yellow Jacket.....	1,400	1,320	1,150	1,090	1,015	1,105	1,220	1,350	1,355	1,420	1,460	1,405	1,345	1,110	720	780	570	620
White & Murphy.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sides.....	....	....	....	....	75	50	....	....	....	....	....	....	....	....	....	....	....	....
Uncle Sam.....	115	100	155	185	345	307	190	240	215	193	185	....	....	....	....	....	....	....
Rallie.....	....	....	....	....	20	16	....	....	....	....	....	....	....	....	....	....	....	....
North American.....	30	28	25	28	35	42	35	30	29	24	16	....	....	....	....	....	....	....
Baltimore American.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Meloues.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Antelope.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Napoleon.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sacramento.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Utah.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lady Bryan.....	....	....	....	....	5	5	....	5	5	....	....	....	....	....	....	....	....	....
Imperial.....	139	175	217	238	245	218	227	230	255	252	250	221	232	210	174	183	157	150
Crown Point.....	725	780	750	765	800	910	905	990	1,250	1,120	1,115	1,150	1,150	1,025	750	760	720	830
Belcher.....	925	620	595	780	775	850	805	860	865	875	900	910	875	630	400	485	400	300
Alpha.....	....	....	....	1,450	1,400	1,470	....	1,425	1,500	1,925	1,950	2,100	2,200	1,700	1,000	1,010	790	930

Authorized Scale of Commissions Adopted by the S. F. Stock and Exchange Board.

Miscellaneous.

Funded Debt, on par	½ per cent
Insurance Stocks, on par	½ per cent
Wharf Stocks, on par	½ per cent
Gas Stocks, on par	½ per cent
Railroad Stocks, on par	½ per cent
Steamboat Co. Stocks, on par	½ per cent
Telegraph Co. Stocks, on par	½ per cent
Water Co. Stocks, on par	½ per cent
Legal Tender Notes and Bonds, on par	¼ per cent

FRANKLIN LAWTON, Secretary.

Bills of Exchange, on net amount	½ per cent
Mint Certificates, on net amount	½ per cent
Specie, on net amount	½ per cent

Commissions on Mining Shares.

Sale at 1 dollar up to 10 dollars per foot	$0 25 per foot
Sale at 10 dollars up to 25 dollars	50 per foot
Sale at 25 dollars up to 50 dollars	1 00 per foot
Sale at 50 dollars up to 100 dollars	1 50 per foot
Sale at 100 dollars up to 200 dollars	2 00 per foot
All over $200 per foot, or share, one per cent. on the amount of purchase or sale.	

J. B. E. CAVALLIER President.

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, December 2.

3 shs Chollar-Potosi at 245 per foot.
10 shs Chollar-Potosi at 210 per foot.
5 shs Chollar-Potosi nt 235 per foot.
5 shs Chollar-Potosi at 235½ per foot, b 30.
10 shs Chollar-Potosi at at 230 per foot.
15 shs Chollar-Potosi at 227½ per foot.
5 shs Chollar-Potosi at 235 per foot, b 30.
5 shs Chollar-Potosi at 225 per foot, s 10.
5 shs Chollar-Potosi at 226 per foot.
5 shs Chollar-Potosi at 227 per foot.
8 shs Chollar-Potosi at 228 per foot.
3 shs Yellow Jacket nt 510@517 per foot.
2 shs Yellow Jacket at 520 per foot, b 30.
2 shs Yellow Jacket at 529 per foot.
4 shs Yellow Jacket at 525 per share.
4 shs Yellow Jacket at 530 per foot.
1 sh Yellow Jacket at 527½ per foot, b 5.
1 sh Yellow Jacket nt 520 per toot, s 30.
1 sh Yellow Jacket at 535 per foot.
5 shs Cal Steam Nav Co at 63½ per cent.
1 sh Belcher at 300 per foot, b 10.
2 shs Savage nt 650 per foot.
1 sh Savage at 640 per foot.
17 shs Imperial at 122½ per share.
25 shs Imperial at 122 per share.
5 shs Imperial at 121 per share, s 10.
10 shs Imperial at 124 per share, b 30.
45 shs Imperial nt 122¾ per share, s 10.
40 shs Imperial at 123 per share.
5 shs Imperial at 123 per share.
30 shs Imperial at 123¾ per share.
20 shs Imperial at 122½ per share, s 10.
50 shs Imperial at 123 per share, s 10.
10 shs Imperial nt 125 per share, b 30.
10 shs Imperial at 122 per share, s 10.
4 shs Gould & Curry at 950 per foot.
4 shs Gould & Curry nt 955 per foot.
4 shs Gould & Curry at 975 per foot, b 30.
4 shs Gould & Garry at 960 per foot, b 30.
5 shs Overman at 46 per foot, b 10.
4 5hs Overman at 45 per foot, b 5.
15 shs Overman nt 43 per foot.
4 shs Overman at 41 per share.
25 shs Exchequer at 10 per share.
19 shs Spring Valley W W Co at 55¼ per ct.
1 sh Hale & Norcross at 190 per foot.
2 shs Hale & Norcross at 185 per foot.
1 sh Hale & Norcross at 190 per foot, b 30.
1 sh Crown Point at 650 per foot.
2 shs Crown Point at 660 per foot.
2 shs Crown Point at 675 per foot, b 30.
60 shs Bullion at 34@32 per share.
50 shs Bullion at 30 per share, s 10.
85 shs Bullion at 28@27 per share.
20 shs Bullion at 28@27 per share, b 10.
3 shs Confidence at 55 per share.
18 shs Confidence at 50 per share.
1 shs Confidence at 51 per share.
$30,000 Legal Tender Notes at 65 p et, s 30.
Amount of sales.....$ 99,632 00

Monday, December 4.

10 shs Yellow Jacket at 522½@510 per foot.
2 shs Yellow Jacket at 520@510 per ft, s 3.
1 sh Yellow Jacket nt 500 per foot, s 30.
1 sh Savage at 680 per foot, s 10.
1 sh Savage at 700 per foot.
33 shs Overman at 40@39 per share.
31 shs Chollar-Potosi at 226@112 per foot,
5 shs Chollar-Potosi at 230 per foot, b 30.
10 shs Chollar-Potosi at 220 per foot, b 5.
2 shs Chollar-Potosi at 217½ per foot, s 3.
5 shs Chollar-Potosi at 215 per foot, b 10.
2 shs Chollar-Potosi at 210 per foot, s 20.
84 shs Ophir at 365@352 per foot.
9 shs Belcher at 280 per foot.
12 shs Belcher at 300 per foot, b 30.
2 shs Hale & Norcross at 190 per foot.
78 shs Imperial at 125@128 per share.
150 shs Imperial at 120 per share, s 30.
30 shs Imperial at 125@124 per share, b 30.
15 shs Imperial at 122@123 per sh, s 30.
5 shs Imperial at 124 per share, b 10.
20 shs N. American, Ex Sam, at 7 per sh.
88 shs Bullion at 25@22½ per share.
5 shs Bullion at 25 per share, b 10.
45 shs Bullion at 22@21 per share, s 30.
5 shs Empire M & M Co, at 180@175.
25 shs Empire M & M Co, 180 per sh, b 5.
5 shs Empire M & M Co. at 180 per sh, s 3.
100 shs Spring Valley W W at 55½ per cent
1 sh Cal Steam Nav Co nt 64 per cent.
1 sh Cal. Steam Nav. Co. at 64 per et, s 3.
5 shs North Beach R. R. at 45 per cent.
$ 5,000 Legal Tender Notes at 65c, s 30.

AFTERNOON SESSION.

14 shs Yellow Jacket at 510 per foot.
2 shs Yellow Jacket at 510 per foot, s 3.
3 shs Yellow Jacket at 515 per foot.
1 sh Yellow Jacket at 510 per foot, s 10.
8 shs Savage at 705@725 per foot, s 3.
3 shs Savage at 565 per foot.
1 sh Savage at 510 per foot, s 10.
1 sh Savage at 705 per foot, s 3.
1 sh Savage at 720 per foot.
5 shs Savage at 730 per foot, b 30.
1 sh Savage at 715 per foot.
2 shs avage at 730 per foot.
1 sh Savage at 740 per foot, b 30.
1 sh Savage at 722 per foot, s 30.
5 shs Savage at 720@725 per foot.
2 shs Hale & Norcross at 175 per foot.
2 shs Hale & Narcross at 175 per foot, b 2.
2 shs Hale & Norcross at 210 per foot, s 3
2 shs Chollar-Potosi at 210 per foot.
19 shs Chollar-Potosi at 212@205 per foot.
20 shs Chollar-Potosi at 202½ per foot.
12 shs Chollar-Potosi at 205 per foot, b 10.
11 shs Chollar-Potosi at 205 per foot, b 3.
5 shs Chollar-Potosi at 205@ 200 per foot.
20 shs Crown Point at 207@210 per foot, b 10.
5 shs Chollar-Potosi at 211 per foot, b 10.
8 shs Crown Point at 700 per foot, b 30.
4 shs Gould & Curry at 950 per foot, s 3.
4 shs Gould & Curry at 975 per foot, b 30.
12 shs Ophir at 355 per foot.
24 shs Ophir at 355@350 per share, b 2.
30 shs Bullion at 22 per share.
20 shs Bullion at 23½ per share.
5 shs Bullion at 23 per share
10 shs Bullion at 25 per share.
20 shs Empire M & M Co. at 180 per sh, s 30.
8 shs Empire M & M Co. at 186@187½.
13 shs Confidence at 50 per share per sh, s 3.
5 shs Confidence at 50 per share, b 5.
1 sh Cal S Nav Co at 64 per cent.
$30,000 Legal Tender Notes at 65½c s 30.
Amount of sales.....$139,461 00

Tuesday, December 5.

4 shs Yellow Jacket at 515 per foot, cash.
1 sh Yellow Jacket nt 515 per foot, s 3.
1 sh Yellow Jacket at 515 per foot, s 10.
20 shs Alpha, O. H., at 670@662½ per foot.
8 shs Alpha, G H, at 660 per foot.
4 shs Alpha G. H., at 650 per foot, s 3.
1 sh Savage at 725 per foot, s 30.
5 shs Savage at 740 per foot.
2 shs Savage at 745@740 per foot, b 10.
1 sh Savage at 740 per foot, s 3.
2 shs Savage at 730@736 per foot, s 30.
5 shs Chollar-Potosi at 122½ per foot.
5 shs Chollar-Potosi at 215 per foot,
1 shs Chollar-Potosi at 215 per foot, s 3.
3 shs Chollar-Potosi at 225 per foot, cash.
8 shs Gould & Curry at 950 per foot, b 2.
4 shs Gould & Curry at 975 per foot, b 30.
3 shs Belcher at 295 per foot.
12 shs Crown Point at 670 per foot.
8 shs Crown Point at 675 per foot.
12 shs Ophir at 350 per foot.
40 shs Imperial at 121 per share, cash.

45 shs Imperial at 123@420 per share, b 30.
15 shs Imperial at 118 per share s 30.
5 shs Imperial at 119 per share, s 30.
13 shs Imperial at 120 per share.
20 shs Imperial at 119 per share.
10 shs Imperial at 121 per share, b 30.
10 shs Imperial at 118 per share, s 3.
20 shs Imperial at 118 per share, s 6.
5 shs Imperial at 118½ per share.
5 shs Imperial at 118 per share, s 10.
5 shs Imperial at 117 per share, s 30.
10 shs Exchequer at 10 per share.
55 shs Overman at 32 per foot.
10 shs Overman at 32 per foot, s 3.
20 shs Overman at 31 per share.
5 shs Overman at 30 per foot.
5 shs Bullion at 25 per share, s 3.
5 shs Bullion at 27 per share.
3 shs Confidence at 47½ per share, s 10.
2 shs Cal Steam Nav Co at 63@62 per ct.
6 shs Cal Steam Nav Co at 51 per cent.
5 shs Cal. Steam Nav. Co. at 61 pr ct, 10 d.

AFTERNOON SESSION.

2 shs Yellow Jacket at 515 per foot.
5 shs Yellow Jacket at 515 per foot, b 5.
4 shs Yellow Jacket at 500 per share, s 10.
2 shs Yellow Jacket at 510 per foot.
1 sh Yellow Jacket at 507½ per foot.
2 shs Yellow Jacket at 490 per foot, s 30.
2 shs Yellow Jacket at 497 per foot.
2 shs Chollar-Potosi at 215 per foot.
3 shs Chollar-Potosi at 213 per foot.
4 shs Savage at 730 per foot.
2 shs Savage at 720 per foot, s 30.
16 shs Alpha at 650 per share.
24 shs Ophir at 345 per share.
12 shs Ophir at 342½ per foot.
60 shs Ophir at 350 per foot, b 30.
15 shs Crown Point at 700 per share, b 30.
10 shs Overman at 31½ per foot.
17 shs Overman at 30 per foot.
10 shs Overman at 29½ per foot.
20 shs Sierra Nevada at 6 per share.
70 shs Sierra Nevada at 6 per share, b 30.
10 shs Sierra Nevada at 5¾ per share, s 3.
10 shs Bullion at 25 per share.
10 shs Ouillon at 22 per share, s 10.
110 shs Bullion at 24 per share.
40 shs Bullion at 23½ per share, s 30.
20 shs Imperial at 117 per share, s 10.
5 shs Imperial at 115 per share, s 30.
42 shs Imperial at 118 per share.
20 shs Imperial at 118 per share, s 30.
10 shs Imperial at 120 per share, b 30.

Amount of sales.....$142,163 00

Wednesday, December 6.

4 shs Savage at 800 per foot, b 30.
11 shs Savage at 780@770 per foot, s 30.
4 shs Savage at 800 per foot.
1 sh Savage at 810 per foot.
5 shs Savage at 790 per foot, s 30.
2 shs Savage at 780 per foot, b 30.
1 sh Savage at 750 per foot, s 60.
3 shs Savage at 790 per foot.
1 shs Savage at 785 per foot, b 30.

1 sh Savage at 775 per foot.
1 sh Yellow Jacket at 500 per foot.
7 shs Yellow Jacket at 490 per foot.
1 shs Yellow Jacket at 485 per foot.
1 sh Yellow Jacket at 480 per foot, s 30.
1 sh Yellow Jacket at 495 per foot, b 10.
2 shs Chollar-Potosi at 210 per foot.
1 sh Chollar Potosi at 205 per foot.
5 shs Chollar-Potosi at 200 per foot, s 3.
5 shs Chollar-Potosi at 197 per foot.
50 shs Overman at 25 per share, s 30.
10 shs Overman at 27 per foot.
60 shs Imperial at 115@113 per share.
60 shs Imperial at 112@114 per share.
25 shs Imperial at 111@112 per share, s 3.
15 shs Imperial at 110½@111 per share.
10 shs Imperial at 108 per share. s 3.
35 shs Imperial at 107½ per share.
80 shs Imperial at 105@105 per share.
5 shs Imperial at 103 per share, s 3.
20 shs Imperial at 102½ per share.
10 shs Imperial at 104 per share, s 3.
10 shs Imperial at 104 per share.
10 shs Imperial at 101 per share, s 6.
10 shs Imperial at 103 per share.
5 shs Imperial at 102 per share, b 15.
15 shs Imperial at 97@97½ per share, s 6.
30 shs Sierra Nevada at 6@5 per share.
30 shs Sierra Nevada at at 6@9 per share.
10 shs Sierra Nevada at 9 per share, s 3.
50 shs Sierra Nevada at 9½ per share.
70 shs Sierra Nevada at 9¼ per share, b 3.
10 shs Sierra Nevada at 10 per share, b 5.
40 shs Sierra Nevada at 10 per share.
30 shs Sierra Nevada at 10 per share, s 3.
10 shs Empire M & M Co. at 190@195.
5 shs Empire M. & M. Co. at 185 per sh, s 60
15 shs Confidence at 45 per share, b 30.
2 shs Confidence at 42½ per share, b 5.
1 sh Steam Nav Co at 62 per cent.
$ 8,000 U. S. 7-30 Oonds at 69¼ per cent.
$3,000 U. S. 7-30 Bonds at 67½ per cent, s 3.
$ 5,000 Legal Tender Notes at 65¼ per cent.

AFTERNOON SESSION.

4 shs Crown Point at 675 per foot.
5 shs Savage at 800 per foot, b 30.
3 shs Savage at 770 per foot, s 30.
4 shs Savage at 785 per foot.
1 sh Savage at 790@800 per foot, b 15.
3 shs Savage at 780 per foot.
2 shs Savage at 780 per foot, b 3.
2 shs Yellow Jacket at 480 per foot.
1 sh Yellow Jacket at 447½ per share.
5 shs Overman at 28¼ per foot.
5 shs Alpha, G H, at 645 per foot.
4 shs Alpha, G H, at 645 per foot, b 10.
8 shs Alpha, O. H., at 635 per foot, s 3.
5 shs Chollar-Potosi at 195 per foot.
5 shs Chollar-Potosi at 190 per foot, b 30.
3 sh Chollar-Potosi at 189 per foot.
12 shs Ophir at 350 per foot.
30 shs Imperial at 104@103½ per share.
55 shs Imperial at 101 per share.
10 shs Imperial at 101 per share, s 3.
15 shs Imperial at 102 per share, s 3.
10 shs Impeaial at 100 per share, s 30.
5 shs Imperial at 102 per share, b 3.
16 shs Imperial at 102 per share. b 6.
10 shs Imperial at 101½ per share, s 3.
5 shs Imperial at 101 per share, s 5.
20 shs Imperial at 105@106 per share, b 30.
5 shs Imperial at 103 per share.
20 shs Sierra Nevada at 11@12 per shnre.
65 shs Sierra Nevada at 12½@13 per share.
10 shs Sierra Nevada at 12½ per share, s 5.
70 shs Sierra Nevada at 12½ per share, s 3.
25 shs Sierra Nevada at 13 per share. b 30.
16 shs Empire M & M Co. at 190 per share.
3 shs Empire M & M Co. at 191 per share.
2 shs Empire M & M Co. at 189½ p. sh, s 3.
$ 6,000 Legal Tender Notes at 66 per cent.

Amount of sales.....$153,469 00

Friday, December 8.

12 shs Yellow Jacket at 455@420 per foot.
2 shs Yellow Jacket at 400@415 per ft, b 30.
5 shs Yellow Jacket at 380@385 per foot.
28 shs Crown Point at 610@620 per foot.
12 shs Crown Point at 600 per foot, b 20.
30 shs Chollar-Potosi at 157@160 per foot.
28 shs Chollar-Potosi at 2@165 per foot.
5 shs Chollar-Potosi at 167 per foot, b 30.
2 shs Chollar-Potosi at 162 per foot.
60 shs Imperial at 105@108 per share.
64 shs Imperial at 100@107½ per share.
36 shs Ophir at 350 per foot.
6 shs Savage at 785@795 per foot.
195 shs Sierra Nevada at 10@7¾ per share.
35 shs Bullion at 25@24 per share.
12 shs Belcher at 230@235 per foot.
12 shs Cal Steam Nav Co at 62 per cent.
$20,000 Legal Tender Notes at 66¼@66¾.

AFTERNOON SESSION.

6 shs Savage at 775@760 per foot, s 30.
27 shs Yellow Jacket at 375@345 per toot.
3 shs Yellow Jacket at 347½@350 pr ft.
12 shs Crown Point at 560@570 per foot.
9 shs Belcher at 282@275 per foot.
12 shs Chollar-Potosi at 163@165 per foot.
108 shs Ophir at 330@340 per foot.
48 shs Ophir at 335 per foot, s 30.
51 shs Imperial at 107@108 per share.
4 shs Hale & Norcross at 170@165 per foot.
100 shs N. American, Ex Sam, at 4 per sh.
5 shs Bullioo at 21 per share.
10 shs Overman at 30 per foot.
10 shs Golden Rule at 9 per share.
10 shs Oakland Railroad at 47½@50 per sh.
$10,000 Legal Tender Notes at 66¾.
$1,000 U. S. 7-30 Bonds at 68 per cent.

Amount of sales.....$123,368 00

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinqnent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Atlantic and Pacific	Special Meeting,		Dec 11
Alhambra, Lyon co., Nev.,	$1.50		Dec 22
Alban, Storey co., Nev.,	$1		Jan 20
Arroyo Seco, Amador co.,	$4		Jan 3
Baltimore American, El Dorado co.,	$2		Dec 20
Bunker Hill, El Dorado co.,	$1.50		Dec 1
Bee S. M. co.		Annual Meeting,	Dec 22
Bullion,	$10		Levied
Boston, El Dorado Co.,	50c		Dec 22
Buckeye, Lyon co., Nev.,	$3		Jan 3
Bunker Hill, Amador co.,	$5		Jan 6
Chloride Ledge, Calaveras co.,	$1		Nov 25
Camargo, Lander co., Nev.,	$5		Nov 25
Chiplonena, Sonora, Mex.,	$5		Dec 2
Caledonia Tunnel, Gold Hill, Nev.,	$2		Dec 11
Cole, Storey co., Nev.,	$1		Dec 21
Chicago, Lander co., Nev.,	$2		Dec 30
Cole, Storey co., Nev		Annual Meeting,	Dec 13
Crown Lead, Mariposa co.,	$5		Dec 30
Eagle, Amador co.,	75c		Nov 25
Exchequor, Storey co., Nov.,	$2		Nov 24
Florida, Reese River,	$10		Jan 2
Frnco-Americana		Annual Meeting,	Dec 12
George Washington, Alpine co.,	$1		Dec 9
Golden Rule, Dividend			Payable Oct 20
Gold Hill Tunneling, Storey co., Nev.,	75c		Dec 15
Gunasparis, Chihuahua, Mex.,	$10		Dec 7
Goodwin, Lander co., Nev.,	$2		Dec 9
Gould & Curry		Annual Meeting,	Dec 13
Halo & Norcross, Storey co., Nev.,	$25		Nov 27
Imperial		Dividend	Payable Nov 10
I. X. L., Alpine co.,	$3		Jan 2
Jefferson, Yuba co.		Dividend	$15 Nov 27
Jeffrey Oil, Humboldt co.,	50c		Jan 4
Jura, Storey co., Nev.,	75c		Jan 2
Jewett, Storey co., Nov.,	$1		Jan 6
Keoknk, Contra Costa co.,	10c		Dec 16
Kentuck, Storey co., Nev.,	$17.50		Jan 3
Kimblin Ravine, Sierra co.		Annual Meeting,	Dec 18
Leon, Esmeralda co., Nov.,	35c		Nov 17
La Favorita, Sonora, Mex.,	50c		Nov 25
La Fernandez, Sonora, Mex.,	$5		Nov 23
Libertad, Sonora, Mex.,	$5		Nov 21
Lady of the Lake, S. F. Dist., Arizona,	25c		Dec 30
Leland, S. F. Dist., Arizona,	25c		Dec 30
Lady Bell, Del Norte co.,	10c		Dec 18
La Victoire, Mariposa co.,	$2		Jan 3
Lady Franklin, Alpine co.,	50c		Jan 6
Mina Rica de las Flores, Calaveras co.,	50c		Jan 2
Mount Davidson, Storey co., Nev	$1		Dec 2
Moss Ledge,	$5		Nov 30
Maggie, Lander co, Nev.,	$1		Dec 26
Nuestra Senorn do Guadalupe, Jalisco,	$5		Dec 8
Nuestra Senera de Guadalupe, Durango,	$1		Dec 4
North American, Nev.	$6		Levied Nov 15
Overman, Storey co., Nev.,	$25		Dec 19
Orleans Quicksilver, Lake co.		Annunl Meeting,	Dec 30
Porter, Butte co.		Annual Meeting,	Dec 9
Patrocina and Dolores, Chihuahua, Mex.,	75c		Dec 28
Paragon, Humboldt co.,	25c		Jan 6
Refugio, Chihuahua, Mex.,	$2½		Dec 27
Santn Cruz, San Antonio, Lower Cal.,	$3		Dec 29
Savage, Storey co., Nev.,	$100		Nov 28
Santa Cruz, Petroleum,	40c		Nov 25
Segregated Belcher, Gold Hill,	$4		Nov 25
San Francisco "Moss Ledge,"	$5		Nov 30
Simpson, Alpine co.,	25c		Dec 2
Spring Hill, Nevada co., Cal.,	$10		Dec 1
Sierra Silver, Douglas co., Nev.		Annual Meeting,	Dec 11
Sierra, Douglas co., Nev.,	$3		Nov. 25,
Southern Light			Caution—Nov 20
Salambo, Tuolumne co.,	50c		Jan 3
Siempre Viva, Sinaloa, Mex.,	$2 50		Jan 6
Sierra Nevada, Storey co., Nev.,	$3		Dec 28
Sierra Valley, Plumas co.,	$1		Jan 5
Trinidad and San Jose, Sinaloa Mex.,	$10		Jan 8
Table Mountain, Calaveras co.,	50c		Dec 2
Triunfo, San Antonio, L. C.,	$1		Dec 1
Tirita S M co.,	$3		Levied, Nov 25
United States, Storey co., Nev.,	50c		Dec 16
United States		Annual Meeting,	Dec 25
United States, Lander co.,	$1.05		Dec 30
White & Murphy, Storey co., Nev.,	$5.50		Dec 4
Wide West, Alpine co.,	$1		Dec 16
Yellow Jacket, Storey co., Nev.,	$100		Dec 15
Yuba, Brown's Valley,	$2.50		Dec 16
Yankee Blade, Reese River, Nev.,	$15		Jan 13
Zenith, Calaveras co., Cal.,	$3.25		Dec 9
"420," Storey co., Nev.,	$6.25		Dec 28

*Those marked with an asterisk (*) are advertised in this journal.

POSTPONEMENTS.—We would again call the attention of Secretaries to a certain point of the mining law, too commooly overlooked, viz: The requirement that all postponements must be added previous to the expiration of the regular publication of assessmeot or sale notices.

BACK VOLUMES.

Back files of the MINING AND SCIENTIFIC PRESS, on nary 1st, 1864, to the present time, will be furnish per volume of six months; hound in cloth, $5

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Baltimore American	Nov 18	2 00
Bullion	Nov 26	10 50
Cole	Nov 25	1 00
Caledonia T & M Co	Nov 10	2 00
Keystone	Nov 8	10 00
Mount Davidson	Nov 7	1 00
Milton	Nov 30	5 00
North American	Nov 15	6 00
Overman	Nov 18	25 00
Schiller	Nov 11	1 00
Sides	Dec 1	3 00
Sierra Nevada	Nov 23	8 00
United States	Nov 15	50
Yellow Jacket	Nov 14	100 00

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale.
American Basin	Dec 18	Virginia
Olshop	Dec 5	Gold Hill
Exchequer	Dec 9	San Francisco.
Globe	Dec 30	Virginia
Hale & Norcross	Dec 11	San Francisco.
Kennedy	Dec 22	Virginia
Nevada	Dec 8	Virginia
Orleans Flat	Nov 24	Virginia
Sand Springs, Salt	Nov 30	Virginia
Segregated Belcher	Dec 9	San Francisco
Savage	Dec 13	San Francisco
Union	Dec 18	Virginia
Utah	Jan 3	Virginia

San Francisco Stock and Exchange Board.

SAN FRANCISCO, December 2d, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ —	$ 74
Gov. Legal Tender Notes	68¼	86½
State Bonds, 7 ₱ cent	80½	..
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	70	..
San Francisco Bonds, 1858, 8 ₱ cent	65	..
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 8 ₱ cent	60	..
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	77½
Butte County Bonds, 10 ₱ cent	..	80
California Navigation Co	62¼	62½
State Telegraph Stock	25	30
San Francisco Gas Co	103	105
Sacramento Gas Co	..	75
Spring Valley Water Co	63	64
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	43	45
Central Railroad Co	..	..
North Beach and Mission	43	48
MINING STOCKS.		
Ophir	$ 350	$ 355
Gould & Curry	925	975
Empire M. & M. Co	....	....
Sierra Buttes Quartz Co	....	....
Contral	....	....
California	....	....
Savage	785	700
Chollar-Potosi	162	155
Hale & Norcross	145	155
White & Murphy	....	....
Sierra Nevada	7	8¼
Daney	..	10
Burcing Moscow	..	..
Lady Bryan	..	..
Sacramento & Meredith	....	....
Barnside	....	....
Iowa	....	....
El Dorado	....	....
North American	....	....
Baltimore American	....	....
Yellow Jacket	385	390
Overman	28	30
Cedar Hill Tunnel	....	....
Wide West	1	2
Crown Point	800	610
Antelope	....	....
Emeralda	1	6
Ætna	....	....
Real del Monte	..	15
Silver Hill	....	....
Utah	....	....
Justis	....	....
Josephine	....	....
Mina Prieta	....	....
Napoleon Copper Co.	....	....
Melones and Stanislaus	....	....
Sheba	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H.	24	25
Enckeye	....	....
Pilot Sides	....	....
Imperial	107	108
Alpha	635	640
Bajazett	....	....

San Francisco Metal Market.

PRICES FOR INVOICES.

Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

SAN FRANCISCO, Dec. 2d, 1865.

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 ℔s; Bar 1@1½c ₱ ℔, Sheet, polished, 3c ₱ ℔, commou, 1¾@1¾c ₱ ℔; Plate 1½c ₱ ℔; Pipe, 1½c ₱ ℔; Galvaaized 2½c ₱ ℔.

Scotch and English Pig ₱ ton	40	@—
American Pig ₱ ton	38	@40
Refined Bar, bad assortment, ₱ ℔	3	@—
Refined Bar, good assortment, ₱ ℔	3½	@—
Boiler No. 1 to 4	4	@ 5
Plate No. 5 to 9	4½	@ 6
Sheet No. 10 to 13	4	@—
Sheet No. 14 to 20	5	@—
Sheet No. 24 to 27	5½	@—

COPPER.—Duty: Sheathing 3½c ₱ ℔; Pig & Bar 2½c ₱ ℔

Sheatbing ₱ ℔	30	@32
Sheatbing, Old	20	@30
Sheathing, Yellow	30	@32
Sheathing, Old Yellow	12	@13
Bolts	13	@16
Composition Nails	30	@32

TIN PLATES.—Duty: 2½c ₱ ℔.

Plates, Charcoal, IX ₱ box	10	@12
Plates, I C Charcoal	10	@11
Roofing Plates	10	@ 11
Banca Tin Slabs, ₱ ℔	41	@42½
STEEL.—English Cast Steel, ₱ ℔	12½	@16
QUICKSILVER.—Per ℔	—	@85
For export	55	@—
ZINC.—Sheets ₱ ℔	9½	@10
LEAD.—Pig ₱ ℔	7	@ 8
Sheet	10	@12
Pipe	10	@12
Bar	9½	@10
BORAX—California, ₱ ℔		@25

San Francisco Retail Prices Current.

Butter, California fresh ₱ ℔	80	@ 90
do pickled ₱ ℔	65	@ 75
do Oregon	40	@ 50
do New York, ₱ ℔	40	@ 50
Cheese, ₱ ℔	25	@ 35
Honey, ₱ ℔	30	@ 40
Eggs, ₱ doz	80	@ 85
Lard, ₱ ℔	25	@ 28
Hams and Bacon, ₱ ℔	28	@ 30
Cranberries, ₱ gal	75	@ 1 00
Potatoes, sweet, ₱ ℔	2	@ 5
do Irish, ₱ ℔	1	@ 2½
Tomatoes, ₱ ℔	6	@ 8
Onions, ₱ ℔	6	@ —
Apples, No. 1, ₱ ℔	4	@ 10
Pears, table ₱ ℔	3	@ 10
Plums, dried, ₱ ℔	15	@ 25
Peaches, dried, ₱ ℔	15	@ 25
Grapes, ₱ ℔	6	@ 15
Oranges, ₱ doz	75	@ 1 00
Lemons, ₱ doz	1 00	@ 1 50
Chickens, apiece	62	@ 1 00

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	8 50	@ 7 00
Do Superfino	6 25	@ 6 75
Corn Meal, ₱ 100 ℔	—	@ 3 50
Wheat, ₱ 100 ℔	2 00	@ 2 10
Oats, choice, ₱ 100 ℔	1 50	@ 1 55
Barley, ₱ 100 ℔	1 05	@ 1 10
Beans, ₱ 100 ℔	2 25	@ 3 50
Potatoes, ₱ 100 ℔	1 00	@ 1 30
Hay, ₱ ton	16 00	@19 00
Live Oak Wood, ₱ cord	8 00	@10 00
Beef, on foot, ₱ ℔	8@	7
Beef, extra, dressed, ₱ ℔	12½	@ 15
Sheep, on foot,	1 00	@ 2 00
Hogs, on foot, ₱ ℔	9	@ 10
Hogs, dressed, ₱ ℔	14	@ 16
Groceries, Etc.		
Sugar, crushed, ₱ ℔	18½	@—
Do China	10	@ 12½
Coffee, Costa Rica, ₱ ℔	27½	@—
Do Rio	26	@
Tea, Japan, ₱ ℔	85	@ 95
Do Green	70	@ 90
Hawaiian Rice, ₱ ℔	10	@ —
China do.	8	@ 10
Coal Oil, ₱ gal	85	@ 95
Candles, ₱ ℔	24	@ 25
Ranch Butter, ₱ ℔	65	@ 75
Isthmus do	35	@ 42½
Cheese, California, ₱ ℔	20	@ 26
Eggs, ₱ doz	75	@ 80
Lard, ₱ ℔	24	@ 25
Ham and Bacon, ₱ ℔	25	@ 26
Shoulders	20	@ 22
Soap—Pale & C. O	10	@ 13
Castile	12	@ 14

Rates of Advertising

IN THE

MINING AND SCIENTIFIC PRESS.

Mining Advertisements.

Notices of Meetings, per square, one week	$1 00
Notices of Meetings, per square, four weeks	2 50
Assessment Notices, of ordinary length, four weeks	5 00
Assessment Notices, of more than usual length, for each additional square	2 50
Delinquent Sales, per square, two weeks	2 00
Delinquent Sales, per square, three weeks	2 50
Postponements, per square, one week	1 00
Slips of Advertisements, printed for meetings or assessments, per hundred	1 00
Advertising blanks and circulars	Free

Miscellaneous Advertisements.

One week, per square	$1 00
One month, per square	2 50
One quarter (3 months), per square	7 50

Advertisements of great length, or of special character, inserted by contract on the most favorable terms.

☞ *Ten lines of solid advertising type constitutes a square.* ☜

Terms of Subscription.

THE MINING AND SCIENTIFIC PRESS is published every Saturday morning (containing sixteen pages—size of *Harper's Weekly*) at the following rates:

One copy, one year, by mail, in advance	$5 00
One copy, six months, by mail, in advance	3 00
One copy, one year, by express	6 50
One copy, six months, by express	3 60
Five copies, one year, by mail, in advance	20 00
By city carriers, per month	50
Single copies	12½
Monthly Series (or parts), containing 4 Nos	50
Monthly Series, containing 5 Nos	62½

THE CIRCULATION of the PRESS, already extensive, is rapidly increasing, and subtantial men who can profit by widely disseminating information of their business amongst the most intelligent, influential and industrial classes of the Pacific States and Territories will find no more effectual or economical medium for advertising.

DEWEY & CO., Proprietors.

Patent Agency and Job Printing Office, 505 Clay street, San Francisco. July 1 1865

Just and True Economy

The Proprietors of the MINING AND SCIENTIFIC PRESS would call the especial attention of MINING SECRETARIES, TRUSTEES and SHAREHOLDERS, to a few substantial reasons for the publication of Mining Notices in their journal—the first and only important newspaper of its class published upon this coast.

1st. The PRESS enjoys a large and permanent subscription list, having a more universal circulation among shareholders and men intimately connected with mining interests than any other publication.

2d. Under the present law the publication of all mining notices on Saturday, in a weekly journal, complies as fully with the statutes as a daily publication. It is generally found to be equally as convenient for secretaries, and decidedly preferable to stockholders who have not time to examine throughout every issue of a daily.

3d. Economy in mining should always be looked upon with favor, and the cost for weekly advertising in the PRESS is less by ONE HALF than the rates of any other journal in this city possessing a respectable circulation.

4th. The publishers of the PRESS, making the mining interest their especial care, take particular pains to assist in the avoidance of errors in advertising. Our print is also more clear and perfect than can be expected in such papers as are hurriedly issued from cylinder presses.

5th. Our "Shareholders' Directory" forms a complete index of all mining notices published in San Francisco, by reference to which shareholders can at once see if their company is advertised, and determine whether the same is inserted in the PRESS or some other paper.

6th. Many copies of the PRESS are bound by prominent professional men, mechanics, secretaries, brokers, shareholders and others, as an important record for future reference, thereby rendering advertising, of every class, in its columns, of peculiar and permanent value.

7th. The benefit of having all mining notices consolidated in one newspaper, for the common convenience of shareholders, secretaries, and others who have occasion to refer to the same, is obvious. With this view we have established our rates at only fair, living prices, believing that a journal like ours, untrammeled by party, creed, or prejudice, is the only medium which can reasonably ask for such a consolidation of mining patronage.

8th. Advertisements in the columns of the PRESS, after their first insertion, are arranged alphabetically. Our present list is equalled only in one instance by that of any other journal. Shareholders, as well as strangers, naturally turn their attention to a mining journal for information concerns ing the mines and mining matters.

LAST, BUT NOT LEAST.—Our sheet (having been recently enlarged to the size of Harper's Weekly) is now only equalled in its dimensions by one mining paper in existence—the *London Mining Journal*. Published in this, the greatest mining field of the world, we desire that the PRESS shall have no superior. We can only realize our cherished object of building up a reliable advocate of the science and business of mining, which will be of just honor and profit to our community, by experience and liberal patronage. The bestowal of such favors only as naturally belong to us, and which it is clearly for the benefit of the mining fraternity to extend, is all that is requisite, and we are confident we shall receive it

Mining Summary.

CALIFORNIA.

YREKA.—Some of the richest claims in the county, situate on the lower part of Indian Creek, have been allowed to retain their wealth on account of the impracticability of working them, there being no way to drain them. This, says the Yreka *Journal*, is about to be remedied. Mr. S. S. Richardson is about to organize a company for the purpose of running a bed-rock drain from a point near the river up the creek, so that every claim will he thoroughly drained. The tunnel will be nearly two miles in length, and will cost a large amount, but its benefits will be incalculable.

PLACER.—The Placer (Auburn) *Herald* learns that several new locations, recently made, are regarded with much favor by those making them. The silver leads below Ophir have particularly engaged attention of late, and something like a mining fever is raging in the neighborhood. The Pacific Company is said to be taking out some splendid rock, very rich in silver.

The Boulder ledge, near Ophir, owned by Daniel Choate, and which was worked about nine years ago, was sold this week to San Francisco parties, for $6,000. This claim formerly produced good rock, but the imperfection of mining machinery, and the great expense attending quartz mining at that time, prevented its successful development. The new purchasers intend giving it a thorough prospecting, and are confident it will prove a valuable mine.

Great numbers of expert miners are visiting the regions about Auburn, Ophir, and Lone Star districts, of late, and so far, says the *Herald*, all seem to be favorably impressed, and generally express surprise that a region so prolific in quartz veins, and bearing so many favorable indications, should have lain so long comparatively neglected; and that, too, when it is the most accessible of any quartz region in the State.

CALAVERAS.—The County Assessor's report for this county sets down the number of quartz mills at thirty-nine, and the ditches at fifty-eight, the latter valued at $122,000.

The Keystone mine, at Copperopolis, under the efficient superintendence of Mr. Sheldon, has been at least partially redeemed from the condition in which it is said he found it, two years ago. Powerful hoisting works have recently been erected over the shaft near the Union line, and a number of miners below are engaged in stoping down the ore. It is the intention of the company to keep a sufficient force at work to extract five hundred tons of ore per month during the winter season, after which it is believed the mine will be sufficiently opened to yield a much larger amount.

TUOLUMNE.—Recent mining sales are reported in this county as follows: Blue Gulch mine, near Jacksonville, sold by Mathews & Allen, in Philadelphia, for $300,000; Rawhide mine, by Willis, Hodge & Fry, $75,000; Ripperdan mine, $11,000; one-half Shanghae, $27,000; Comstock mine, $125,000; Consuelo, by Gardiner, $300,000; Bonita, $280,000. The greater portion of this money will be expended in building mills, opening the mines, etc. These sales have taken place during the past summer. The *Courier* says if a stranger desires to know what is being done in the way of improvements he has but to visit the North Fork, near Summerville. Two large twenty-stamp mills are being constructed on the most improved plan. No expense is spared to make them the best mills in the county, and equal to any on the Pacific coast.

AMADOR.—We have quite a list of items from Amador, this week, which we condense as follows from the *Dispatch* and *Ledger:*

The work of putting in twenty additional stamps in the Oneida mill, at Jackson, is nearly completed—making it a forty stamper. The ore from the middle shaft looks well, and is reported to be paying well. A very large number of hands are employed at these works.

The Keystone, at Amador, is said to be paying better than ever. The Mahoney mine, at Sutter Creek, is now fully prospected to the depth of 60 feet. The rock at that depth is equal to the best, and since the recent rains their mill is grinding out bullion at a rate entirely satisfactory.

The Railroad is proving itself one of the finest mines in the county. The present run of about 200 tons will reach $20 per ton.

The Coney lead mill, at Amador, is now crushing, on an average, fifteen tons of rock daily, which pays from $12 to $15 per ton. The Blue Jacket, the first extension of the Coney, is owned by Dunning, Little and Burwell, and bids fair to soon become one of the valuable mines of Amador. Sixty-four tons of surface rock, crushed last week at the Kearsing mill, yielded over five dollars per ton. The boys say they can make five hundred dollars per month at that rate per ton, and they can. [They must be able to take out and crush their ore very cheap to do it.]

A Deep Shaft.—The proprietors of the Eureka mine, Messrs. Hayward & Chamberlain, will soon begin the work of sinking the south shaft, now about 960 feet deep, to a depth of 1,500 feet. This is a very important enterprise; and reflects much credit on the energy of the proprietors. We trust the enterprise will prove a profitable one. At Sutter Creek a large number of mines have been tested at depths from 200 to nearly 1,000 feet, and in no instance has any evidence been afforded to the contrary.

A correspondent of the *Dispatch*, writing from Volcano, says the Tellurium Company [mill, we suppose] has suspended operations for a short time; the Mountain Mill has also stopped work. The work in the mines is still progressing. We learn from another source that the Tellurium Company have struck it richer than ever in their lower tunnel.

LOS ANGELES.—We learn from the *News* that some rich diggings have reeently been taken up in the vicinity of San Fernando, and which have been thoroughly prospected, and found to yield well; paying placers exist in the gulches and at the foot of almost all the cañons of the coast range of mountains; many of them having been worked to profit in former years. A scarcity of water has delayed a rich product in gold from these placers, which obstacle may readily he overcome by a little enterprise in conducting water a short distance to the placers. At one of the points, in the vicinity above mentioned, where placer claims have been located, one nugget worth $250 was obtained, with numbers of a smaller denomination.

VIRGINIA CITY AND VICINITY.

During the month of November, Wells, Fargo & Co., according to the Gold Hill *News*, shipped from their Gold Hill office alone $483,307 worth of bullion. The *News* thinks this amount will he exceeded every month for the next twelve. The last quarterly yield of the mines of that district, according to the Virginia *Enterprise*, was $2,452,482.45. The average value per ton was $30.08 *ad valorem*, number of tons extracted, 71,495¼.

Some very rich rock has recently been taken from the Mexican mine, which shows considerable free gold. Seventeen tons of this class of rock has been worked at the company's mill, which has averaged $800 per ton. The company expects to keep its own mill working on the same class of rock all winter.

The Nye County *News* speaks of several piles of the finest ore, at the Pioneer mill, that can be found in the State of Nevada. The ore is from the Pleiades, Mountain Brow, Hobart, and Stonewall claims, in the Union district, and the Josephine claim, Mammoth district. The *News* hopes to obtain the figures for this week, when it is completed.

The same paper says that George W. Veatch, Superintendent of the Atlantic and Pacific Company, shipped a ton of ore, a few days since, to Goss & Lamhard, at Sacramento, from whence it will he shipped to New York. This ore was taken from the Silver Age, one of the claims belonging to that company, and located near the town of Union. A sample, assayed by Thomas Cahill, yielded at the rate of $4,711.35 to the ton. It will he reduced in New York, and the result will no doubt convince the capitalists at the East that Union district is justly entitled to the good reputation it has attained, both at home and abroad.

The Hale & Norcross Company have recently commenced hoisting ore from the upper level of the mine, 177 feet from the surface. This ore pays about $35 to the ton, and a body of it exists there forty-five feet long by eight or ten in width. One hundred tons of the ore is broken up and being hoisted, and the company hope to pay all expenses of running the mine as they go along. This is a continuation of the same body of ore which was worked in the upper level of the Potosi. We are not informed why this one has been allowed to lay so long in sight and unworked—perhaps, however, it was not known to be valuable.

ESMERALDA.

The new mining districts recently established around, and mostly to the northward and eastward of Esmeralda are rapidly attracting the attention of prospectors and capitalists. An entirely new and interesting district has just been organized about 100 miles east of Mono Lake, and in a region never heretofore explored. A more full account of this discovery will be found elsewhere in the present issue.

The Esmeralda *Union* notices some very rich discoveries of copper recently made near Mono Lake. The ledge crops out on a barren mountain about 1,500 feet above the valley and some four or five miles northwest of the lake. On the surface the ore assayed 20 per cent. and now at the depth of fifteen feet, where the vein is four feet wide, it assays, according to the *Union*, from 60 to 80 per cent., a great deal of it being almost pure copper.

HUMBOLDT.

The report of the Assessor of Humboldt county gives a very full description of the mines of this county. The document is very interesting. We copy the following, in place of our usual summary:

Gold.—Several gold ledges have been found in this county. But little work has been done on them. They are generally in a country rock called by some geologists quartzite, and by others metamorphic graywacke.

One of these ledges, in the Monroe claim, has been worked to a small extent. It cost $20 per ton to take the ore out and $20 more to crush and amalgamato it; but as it was necessary to haul it 30 miles to a mill, twelve tons only have been worked. The amount of bullion shipped from this county during the year ending September 30th—assayed—was $50,000; amount of crude bullion, unassayed, 50,000.

Lead.—Galena, much of which is highly argentiferous, is found here in considerable quantities—always a quartz ledge.

Copper.—Carbonates, sulphurets and oxyds of copper are found in large quantities in different parts of the county. Like Galena, these ores are always in a guage of quartz, and they generally contain a large percentage of silver.

Antimony.—Sulphurets and oxyds of antimony exist here in great abundance. Some of this ore is rich in silver, and there is scarcely any of it that contains less than $15 in silver per ton.

Sulphur.—Sulphur, in a nearly pure state, is found in large quantities. In the vicinity of sulphur deposits there are numerous remains of hot springs which are now extinct.

Salt.—Inexhaustible salt springs and salt deposits are found in different parts of the county.

Lime.—Limestone is one of the principal rocks in this section of the State.

Thus far the work done on the mining claims of this county has been almost entirely by way of exploring and prospecting the mines. Owing to the want of capital, but little has been done toward the systematic opening and working them, and, on account of this, some of the most promising mines in the county are not being worked. Recently, however, a considerable amount of capital has been invested in operations here, and there is reason to believe that some of our mines will soon he properly opened, and that several mills, adapted to the successful working of their ores, will soon he erected.

REESE RIVER.

We condense the following from the *Revielle*: Work upon the Vineyard series is being vigorously pushed. The Emma Seymour, Echo, and Cast Steel ledges are particularly spoken of.

Arrangements are being made to more thoroughly prospect the new Gold Mountain District. The assays from the croppings in this district are highly encouraging.

The Silver Hill Mill is a neat 10-stamp mill lately erected under the supervision of Mr. Chandler. It has probably commenced running by this time, with five stamps and two furnaces.

An eligible and fine location has been selected by Mr. Thurston, for the erection of a mill on the Colfax Silver Mining Company's ground, in Yankee Blade Ravine. The mill, when finished, will be one of the best in the district. The ore will be crushed dry, and then conveyed mechanically direct to the roasting furnaces. The whole arrangement of handling the ores is made according to the best devised plans of the Midas, Confidence, Keystone, etc. The furnace building has been designed for eight furnaces. The motive power will be supplied with a 130 horse-power engine.

Capt. Page and party have recently returned from the Eureka district. They pronounce the district very promising and have brought in great masses of ore from the Great Republic and Burning Moscow ledges.

Capt. Shears of the Murphy mine, at Twin river has brought in to Austin samples of the ore procured from the shaft which he is now sinking on the ledge, which fully equal the best yet obtained from the mine. The gangue is pure quartz, and the only perceptible mineral is antimonial silver, with the faintest blush of ruby. It is believed that this ore will assay as high as $1,000 in silver to the ton.

IDAHO.

A correspondent of the *Statesman*, published at Boise City, Idaho Territory, writing from Ruby City, I. T., says that operations in feet have been heavier there, of late, than ever before. The consequence of this demand for "feet" in that vicinity will he that an immense amount of mining property will soon be placed in the New York and other mining markets for disposal. The same correspondent says that no company has yet purchased mines in Owyhee and heen disappointed in finding them, upon inspection, to warrant the erection of mills. That some one may be yet taken in, he does not doubt, but there is no such thing as failure yet. All the companies that have sent their agents there for the purpose of inspecting their purchases have gone right to work to improve their property.

Mr. B. T. Dalton had heen at Ruby City, for some days, and had already secured [we presume, for sale in New York—ED. PRESS] a large amount of the best claims in this county, among which are six hundred feet in a north extension of the Oro Fino, four hundred feet in the first south extension of the Morning Star, two hundred feet south extension in the Hays & Ray, two thousand feet Home Ticket, eight hundred feet in the Dashaway, one thousand in the Rising Star. The above are not one-half of the whole amount, but are only some of those best known to be wide and good ledges.

Mr. Ryan, also from the same place, has secured for disposal about ten thousand feet, principally in the Flint District. If no more than one-half of these mines shall he sold, and work commenced upon them, next season will be one of unexampled activity and prosperity.

The Cosmos is the name of a new mill just commenced a short distance above Silver, by a New York company, William Musgrave, superinteudent. The company owns the first south extension of the Silver Legion, and the second south extension of the Morning Star, both known to be very rich. The mill will he in operation some time in January.

According to the *Avalanche*, published at Ruby City, one-stamp mills are becoming quite a feature in that region, as nearly every house has one, worked by man or hoy power, quicksilver flasks and short iron bars often comprise the entire machinery. Some, more pretentious, are fixing up "spring poles" to facilitate the work of reduction. A large amount of bullion is said to be taken out by these simple appliances, a fact indicative of the extraordinary mineral wealth of that region. Shoenhar's mill is in successful operation on Trask & Jennings' rock. The mill of Morse & Vess, at Silver City, are crushing rock for the Columbia ledge.

Mining Inventions.

The Idaho *World* makes the following suggestions to practical miners:

In the working of placer mines the spirit of invention lies dormant. Hydraulics, sluices, rockers, give not way to anything new or better; "stripping" the ground is not as yet aided by any machinery to lessen human toil. But the time may come when these huge hanks of dirt, which so much retard the miner by having to he moved by the single shovelful, will melt before the ingenuity of man like snow before a Chinook wind. Ways and means have ever been superinduced by necessity. Whenever laboring men will fully realize that within their own reach lies this great desideratum, that they must not depend on the professions and other vocations to invent great improvements, then we can hope for more general prosperity. Our intelligent politician does not know how long a time it requires to shovel a ton of gravel or a cord of dirt; our doctors don't pretend to explain what kind of oil is best adapted to gun-locks; nor our lawyers to know whether a sluice-head of water is twenty inches square or twenty square inches. Consequently it devolves upon the miner to give full sway to his inventive faculties if he would benefit his own class. He need not lay down the shovel to enable him to think; brain and muscle can work together; reason can control thoughts and bring them into the proper channel. It is the study of what we have read that expands the intellect. When men shall study cause and effect, instead of depending entirely upon the discoveries of the past, the pages of their hidden knowledge will be opened.

AN IMMENSE FUNGUS.—The editor of the Grass Valley *National* has been presented with an immense fungus—a mushroom—which measured twenty-one inches in circumference. The aforesaid editor assures his readers that he ate it—having been advised to do so by "a Frenchman."

Mechanical.

THE MANUFACTURE OF CAST STEEL.

THE BESSEMER PROCESS AN AMERICAN INVENTION.

The manufacture of cast steel is making rapid progress in all parts of the civilized world. Its manufacture in large masses is of quite recent date, and was first accomplished by Mr. Bessemer, under his *pneumatic* (nir) process. It is stated, on the authority of Prof. Fleury, of New York, that Mr. Kelley, of this country, has established his claim for priority of invention of the so-called Bessemer process, and that he is now prosecuting all who work in this country under the Bessemer patent. To Mr. Bessemer, however, and to his untiring perseverance, the most credit is due for the successful introduction of the pneumatic process in Europe, and had it not been for him, Mr. Kelley, or any other claimant of this important improvement, would very likely have been obliged to wait many years before it would have found a practical introduction into this country.

Steel is now manufactured in Pittsburgh, by the Bessemer process, which rivals the best European brands, and if they continue in their efforts to improve, it is not impossible that America will stand at the head of the steel trade. Messrs. Winslow & Holley, of Troy, N. Y., exhibited at the late American Institute Fair, in New York, specimens of cast steel made by this process, in ingots weighing two tons each; and they are now fitting up machinery for making *fifteen ton* ingots. A cast-steel axle of their make was submitted to the trial of being bent double, the inner sides meeting within an inch, without exhibiting a crack. Several square bars were bent double, others were twisted; all these bends and twists were made when the samples were cold. Several pieces of rail were twisted one turn in two feet. All the samples appear to bear as much bending and twisting as the best iron. There are samples of boiler plates worked into the most difficult forms with entire solidity. Their work was successfully submitted to many other trials of a similar character.

Notwithstanding the efforts and genius of Mr. Bessemer in England, Germany is now ahead of England in the production of cast steel. The Saxton cast steel manufactory at Doehlen, is now doing an extensive and profitable business, and a new manufactory, on an extensive scale, is being put up at Hagen, in Westphalia.

But the great, gigantic cast steel manufactory of the world is that of Mr. Krupp, at Essen. The *modus operandi* employed at this establishment, until recently, has been quite a mystery. The veil has now, however, been somewhat drawn aside, and the process employed disclosed, by a lecture given by Mr. Bug, at the last meeting of the Lower Austrian Trade Association. The establishment, with the buildings now in the course of erection, occupies an area of about seven hundred acres; there are altogether eight thousand hands employed on the premises, whose aggregate fortnightly wages amount to £12,000 sterling. Seventy-five steam engines, of from 3,000 to 4,000 horse power in the aggregate, and varying in capacity from one to 1,000 horse power, supply the motive power, while one hundred and fifty boilers consume six hundred tons of coal in twenty-four hours, and evaporate 170,000 cubic feet of water. The forging is done by means of thirty-five steam hammers, varying from one to fifty tons in weight; the last is reported to be the largest in the world; it rests upon a foundation weighing fifteen hundred tons, and cost £90,000. The steel is prepared in crucibles, for the reception of which two hundred and forty ovens have been built. The production of cast steel in 1863 amounted to 11,156 tons, and in the first six months of 1864 to 8,035 tons. Krupp's cast steel is well known in England, but his establishment is especially famous for turning out good guns.

The process adopted by Mr. Krupp for producing his mammoth ingots is said to be the employment of puddled steel, prepared in a great measure from *musen spiegeleisen*, and melted in crucibles, each containing seventy pounds or more of steel. It is stated that the contents of the crucibles are first poured into a ladle, similar in principle to that described under the Bessemer process; and that there is an arrangement by which, at a given signal, the crucibles can be raised up by the stokers in the cellar. He is also said to use the pneumatic process on a large scale. Krupp's tyres and rails have no equal, and are exported to all parts of the world.

TENACITY OF COPPER IMPROVED BY PHOSPHORUS.—A very interesting paper was read by Mr. F. A. Abel, at a late meeting of the "British Association for the Advancement of Science," wherein that gentleman gave the results of several experiments which he had made on the compounds of phosphorus and copper. The particular object of his experiments was to ascertain if phosphorised copper would be more effectual as a material for the manufacture of cannon than the copper alloy generally used for that purpose. In testing the tensile strength of phosphorised copper he ascertained that a bar of ordinary copper, one inch in sectional area, broke under a strain of 25,000 pounds; and that a similar bar of gun metal required 32,000 pounds to break it; while copper combined with five-tenths of one per cent. of phosphorus required 38,380 pounds to break it, and when combined with one and a quarter per cent. of phosphorus the bar withstood a strain of upwards of double that of pure copper! Mr. Abel further stated that notwithstanding the very superior tenacity of phosphorised copper, there were practical difficulties which would not admit of its being employed in gunnery. What that difficulty was, is not stated in the report before us. He also stated that phosphorised copper could not be employed for telegraphic purposes, for the reason that the presence of phosphorous greatly deteriorated the metal as an electrical conductor. These experiments still further illustrate the importance of still more extended and elaborate researches into the alloys of the useful metals, a matter to which we have several times alluded to in late issues of the PRESS.

THE OFFICIAL REPORT on the race between the Winoooski and Algonquin states that the economical performance of each vessel was equal, and that the arrangement of the Winooski machinery is the completest and most convenient possible, and its economy is fully equal to that of the very complex design of the Algonquin. The great inequalities in the relative power of the two engines, of their fire-grate surface, etc., renders them entirely unsuitable for any such comparative trial as they have been subjected to. Their trial has been a perfect waste of time and money, and proves nothing.

UTILIZING SLAG—A NEW PAVING MATERIAL. A new method of utilizing furnace slag has lately been introduced into some European cities, which may be described as follows: The slag is run into pits about eight or nine feet in diameter, when it is allowed to cool slowly. When quite cool it is removed and cut into blocks of a convenient form for pavements, for which it is said to answer a most excellent purpose. It has been used at Mentz and in Paris, and is said to be superior to the "grit-stones" usually employed in those cities for paving. It can be made economical only at points where good paving stones have to be brought from a distance, to supply the immediate locality of the furnace.

LIFE OF A LOCOMOTIVE.—The life of a locomotive on English roads is about twenty years. The *American Railway Times* says that the more careful and conservative of our railway managers estimate the annual depreciation of locomotives at eight per cent., and others think that estimate is quite too large. There are locomotives that have been running on American railways since 1840, and no doubt some may have been in service still longer."

SOMEWHAT late in the day, it has been determined to erect a memorial at Birmingham to James Watt, the "father and pioneer of mechanical engineering." Watt died in the year 1819.

SAN FRANCISCO MINING MACHINERY.—Mr. B. F. Dalton, a large capitalist, who has spent years in quartz mining, has recently left Ruby City, Idaho Territory, for New York, with the view of interesting Eastern capital in the mines of that section. In speaking of the relative value of New York and San Francisco mining machinery, he says: "It is the hight of folly to purchase quartz machinery in the Eastern cities; San Francisco is to be preferred every time." Speaking of the mines of the northern part of Idaho, he says they need not spend time in puffing their ledges, as they possess a merit that will tell their own story, and eventually force themselves into notice. He expects to back his opinion by the early construction of a mill which shall equal anything in that region, besides being the agent through whom many other mills will be put up in that place during the next and succeeding seasons.

THE LARGEST WIRE ROPE, probably, ever manufactured, was recently turned out from the wire factory of the Messrs. Hazard & Co., Pittsburgh, Pa. Two of nearly equal length and size were manufactured. The largest lacks but eighty feet of being a mile in length, is one and five-eighth inches thick, and weighs upwards of eleven tons. It is to be employed on the Canal Company's plain, near Wilkesbarre, Pa.

WELDING LARGE MASSES OF IRON—A NEW INVENTION.—An invention has recently been patented by Messrs. Standly & Prosser, of England, for the employment of hydrogen or its compounds, alone or mixed with oxygen or atmospheric air projected from blow-pipes, for the purpose of welding plates or masses of iron, or other metals. They prefer to mix the gases in a reservoir at the base of the blow-pipe.

EUROPEAN ENGINEERING COMPETITION.—The Baden Government recently advertised for proposals for constructing *forty-six* locomotives; the competition to be open to the world. Bids were sent in from French, German, and English manufacturers, as follows: Bids offered by the French, £1,800; by the Germans, £2,228; by the English, £2,828. A wide margin will be noticed between the bids.

STEAM POWER ON THE WESTERN PLAINS.—The recent discovery of coal among the mountains of Colorado, is destined to work a revolution in transportation across the western plains. A company has already been organized in Boston and New York, with a capital of $6,000,000 for the purpose of placing steam fraction engines on the roads between the Mississippi and the Rocky Mountains, a distance of 650 miles. An engine of thirty-two ton's weight is now in process of construction, and will be put in operation as soon as it and the necessary wagons are ready.

The route from Nebraska City to Denver has been recently surveyed, and it is reported to be well adapted to the use of fraction engines. The freight business across the plains is said to be very great—amounting, the present season, it is estimated, to 2,000,000 lbs. By the use of these engines, it is said that trains can cross the plains in six days, while mule and cattle trains occupy from forty-five to sixty days in crossing.—*Toledo Blade.*

PETROLEUM AS FUEL.—The English are persevering in their experiments to prove the practicability and economy of employing petroleum as a fuel for making steam. A late number of the London *Artizan* says that the petroleum boiler at Woolwich Dockyard, lately experimented with, is now undergoing considerable alteration, in order to assimilate it more to the simple form of the present marine boiler. The long course of experiments under Mr. Richardson's supervision, at Woolwich, has proved the present system to be not only available but utterly free from danger; the experiments are now to be carried on with great vigor. When the alterations are completed the boiler will be able to burn the Rangoon, Barbadoes, or Trinidad petroleum, together with the English coal and whale oils alternately, as well as every other kind of hydrocarbon, to obtain any degree of speed that may be required, and without waste.

WIRE BRIDGE.—Work is steadily progressing on the wire suspension bridge across the American river, immediately below the junction of the North and Middle Forks. It is contemplated to have the Bridge and road opened for the spring travel.

MINING AND SCIENTIFIC PRESS

PATENT AGENCY.

For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The first question, therefore, that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application to the Government, embracing a petition, specification, model, duplicate drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely consider his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that if another files the application described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on preseating an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues. If the application is rejected we a cause thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficient, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, No 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the status of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even longer. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 yrs and 6 mos...	$10
On every application for a design, for seven years.....	15
On every application for a design, for fourteen years.....	30
On every application for a patent, for seventeen years...	15
On every caveat.....	10
On issuing each original patent.....	20
On filing a disclaimer.....	10
On every application for a re-issue.....	30
On every additional patent granted on a re-issue.....	30
On every application for an extension.....	50
On the grant of every extension.....	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C....	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

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Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides and the veriest of a stranger which may appear will be received in friendship and treated with respect.

American and Foreign Patents.—Letters Patent for inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the credit system.

San Francisco:

Saturday Morning, Dec. 9, 1865.

A STATE MINING CONVENTION.

Pursuant to the request of several mining journals and representative mining individuals, the association known as the "California Mining Bureau," of this city, through their Board of Trustees, have issued the following call for a Mass Convention of the miners of California:

RESOLVED, That a Mass Convention of the miners of the State of California, be and is hereby called to assemble in the city of Sacramento, on WEDNESDAY, the 17th of January, A.D. 1866, at 12 o'clock, and that any person engaged in actual mining operations shall be eligible to a seat in said Convention.

JOSEPH W. LOW, Vice-President.
J. B. WHITCOMB, Recording Secretary.
San Francisco, December 6, 1865.

THE CONVENTION "CALLED."

In accordance with the particular request of the publishers of this paper, and at the suggestion of several of the local mining journals of the interior, as well as quite a number of representative mining individuals throughout the State, the California Mining Bureau Association of this city, at a meeting of its Directors, held on Tuesday evening last, took the responsibility of issuing a "call" for a mass convention of the miners of this State, to be held at Sacramento on the 17th of January next.

The expediency of this measure has been freely discussed and fully indorsed by nearly or quite every paper throughout the State; and now that it is fully "called," we trust that no effort will be spared on the part of the miners themselves to secure a large and full attendance. With regard to the place, we know of none which could be more central or convenient. The day fixed is quite as early as is compatible with due notice being given to all parts of the State. The fact that no person or persons were duly "authorized" to call a convention, naming, with particularity, the precise mode in which delegates shall be elected, their number, etc., has induced the association, which has been requested to take the initiatory action, to make the "call" as general as possible. Hence, a "mass convention" has been called of all persons actually engaged in mining, whether by wielding the pick and shovel, or furnishing the necessary means to enable others to do so. It is the intention of the callers that the convention shall include representatives of all classes who are directly interested in mining—the men of wealth, to whom we are to look for the treasure which must first unlock the great storehouses of nature before we can appropriate her riches, as well as the hard-handed toiler in the mine—the capitalist and the laborer—the mill-manager as well as the toiler in the mine or mill, not forgetting the hardy prospector, who risks life, health, and money to lead the way to wealth, in which others are to follow with comparative ease and safety.

We have no local interests or jealousies which are to be fostered or checked by a proportionately delegated representation of interests and numbers. Our interests are common; what is for the benefit of one section is for the benefit of all. So only that all *classes* are represented, we are right. That they *will* be, by the miners coming together *en masse*, we feel well assured. Thus constituted, the discussions and action of the convention cannot fail to accomplish much good in securing a uniformity of mining laws, a proper legislation—if any at all—at Washington, a thorough revision of our State laws, and full protection to miners from the threatened encroachments of railroad and all other incorporations or influences which shall aim to deprive the miners of their just right, and the country at large of the fullest benefit of the great public patrimony, which should be held forever in trust for the people to work under reasonable restrictions and with fixed guarantees.

It is to be hoped that our cotemporaries throughout the State will give the widest circulation to the "call," and that each mining district will take such measures as will secure, beyond peradventure, a full and prompt attendance at the time and place designated. From the fact that a *mass* convention is called, and that the doors will be open to all who may be interested, it should not be left to the mere chance collection of such as may *happen* to be in Sacramento at the time, but preliminary meetings should be called in every district, and efforts made to render a full attendance a matter of certainty.

ANOTHER COPPER STRIKE.—A correspondent from Jackson, Amador County, writes, under date of December 5th, that "the Randall Copper Mining Company, located one and one-half miles north of the Newton mine, on Friday last struck their vein by running a cross-drift from the bottom of the shaft. The lode is *eight feet* in thickness, of yellow sulphurets and black oxides, assaying from 27 to 40 per cent per ton. Immediate operations will commence to run the levels and be ready to take out ore for shipping in the spring.

"This mine has been worked for two and one-half years. Two shafts have been sunk to the respective depths of 150 and 160 feet, both of which can be used in hoisting ore by running short drifts. This is believed to be the largest vein of solid ore, assaying such a high percentage, that has been struck in this State. The mining interests of Amador County are looking up in a very satisfactory manner. This winter most of the mines are paying better than ever."

AS IT SHOULD BE.—The hotel keepers of San Francisco have in contemplation the preparation of a Bill to be presented for action by the present Legislature, to clearly and distinctly define their responsibility in cases of special deposits from their customers, to the end that there may hereafter be no misunderstanding with regard to their mutual relations under such circumstances. The late robbery of the What Cheer House has suggested this movement. A recent decision by the Supreme Court of the State of New York, in a parallel case, which may have a bearing here, was to the effect that when a guest handed the clerk a purse or package, with the simple remark that it contained "money," the hotel keeper was liable only for so much "money" as a man might ordinarily be expected to carry about him when traveling. We do not see how, when no specific receipt is given, a person is to prove the deposit of any particular sum, unless a witness stands by and sees it, just previous to the deposit. At all events it seems very proper that some special legislative action should be had in the matter, as contemplated in the movement alluded to.

BORAX.—About two hundred tons of borax have been shipped from the mine in Lake county during the past year. Fifty hands are now employed, taking out from three to five tons per day. So we learn from the Lakeport *Journal*.

QUICK WORK.—A telegraphic dispatch was received in Grass Valley, Nevada City, a few days since, in twelve days from the City of London.

CALIFORNIA LEGISLATURE.

This honorable body convened at Sacramento on Monday last. Most of the members were present and took the oath. The following is a list copied from the daily press, which is the most correct that we are enabled to obtain at this time:

SENATE.

Belden, David—*Nevada.*
Banning, P.—*Los Angeles.*
*Benton, J. E.—*Sacramento.*
Bradley, E. L.—*Placer.*
*Cunningham, Lewis—*Sutter and Yuba.*
Cutter, James H.—*San Francisco and San Mateo.*
Dodge, H. L.—*San Francisco and San Mateo.*
*Evans, O. S.—*Mono and Tuolumne.*
Ewer, Seneca—*Butte and Plumas.*
Freeman, J. W.—*Fresno and Tulare.*
*Hawes, Horace—*San Francisco and San Mateo.*
*Hartson, C.—*Napa, Lake and Mendocino.*
*Hale, James E.—*Placer.*
Heacock, E. H.—*Sacramento.*
Hardy, Thomas—*Calaveras.*
Hager, J. S.—*San Francisco and San Mateo.*
Johnson, James.—*El Dorado:*
*Jones, John P.—*Shasta and Trinity.*
*Kutz, Joseph—*Nevada.*
Knox, W. J.—*Santa Clara.*
*Leonard, W. H.—*Calaveras.*
*Lovett, William E.—*Santa Cruz.*
Murphy, P. W.—*Santa Barbara and San Luis Obispo.*
*Myers, Samuel—*San Joaquin.*
Mizner, L. B.—*Solano and Yolo.*
*Maddox. F. L.—*El Dorado.*
*Montgomery, W. S.—*Mariposa, Merced and Stanislaus.*
*Porter, Charles D.—*Contra Costa and Marin.*
Pearce, George—*Sonoma.*
Pratt, L. E.—*Sierra.*
Robinson, Henry—*Alameda County.*
*Rush, John A.—*Colusa and Tehama.*
Seaton, G. W. deceased (vacancy)—*Alpine and Amador.*
*Smith, F. M.—*Butte and Plumas.*
Shaw, Wm. J.—*San Francisco and San Mateo.*
*Tuttle, M. C.—*San Bernardino and San Diego.*
Tubbs, A. L.—*San Francisco and San Mateo.*
Tecgarden, E.—*Sutter and Yuba.*
*Wright, S. P.—*Del Norte, Humboldt and Klamath.*
Wolcott, Oliver—*Mono and Tuolumne.*
Wadsworth, E.—*Siskiyou.*

*The asterisk (*) denotes Senators holding over.

ASSEMBLY.

Anthony, William—*Santa Cruz.*
Ayres, Isaac—*Calaveras.*
Bosquit, John—*Placer.*
Bowman, James—*San Francisco.*
Bugbee, S. C.—*San Francisco.*
Brayley, M. A.—*San Francisco.*
Bledsoe, A. C.—*Sonoma.*
Brown, J. C.—*Tulare.*
Batchelder, A. J.—*Yuba.*
Brown, F. A.—*Contra Costa.*
Collier, M. M.—*Calaveras.*
Campbell, J. S.—*El Dorado.*
Clayton, Charles—*San Francisco.*
Chamberlain, C. H.—*San Joaquin.*
Chase, E. J.—*San Francisco.*
Corey, J. M.—*Santa Clara.*
Chappello, J. N.—*Shasta.*
Coghlin, John M.—*Lake and Napa.*
Dorr, J. C.—*Trinity.*
Downing, J. L.—*Sonoma.*
Dornin, George D.—*Nevada.*
Dutton, Henry—*San Francisco.*
Dwyer, David—*San Francisco.*
Eager, Thomas—*Alameda.*
Goodall, J. E.—*Mono and Tuolumne.*
Green W. E.—*San Joaquin.*
Goodwin, J. D.—*Lassen and Plumas.*
Holden, William—*Mendocino.*
Hogle, L. I.—*Mono and Tuolumne.*
Hatch, H. L.—*Nevada.*
Heustis, R. J.—*Humboldt.*
Hollister, Dwight—*Sacramento.*
Hunt, William B.—*Sacramento.*
Hansbrow, Thomas—*Sacramento.*
Hopper, P. J.—*Sacramento.*
Hawkins, Michael—*San Francisco.*
Hearst, George—*San Francisco.*
Hill, R. J.—*San Luis Obispo and Santa Barbara.*
Howard, George H.—*San Mateo.*
Hunt, A. B.—*Santa Clara.*
Hoag, O. H.—*Sonoma.*
Hamlin, Francis—*Sutter.*
Ireland, M. G.—*Monterey.*
Kurtz, D. B.—*San Diego.*
Kidder, J. F.—*El Dorado.*
Long, W. S.—*Colusa and Tehama.*
Lee Harvey—*Alpine and Amador.*
Leech, Reuben—*Nevada.*
Lupton, Samuel L.—*San Francisco.*
Lemon, James M.—*Solano.*
Luttrell, J. K.—*Siskiyou.*
Murch, L. H.—*Del Norte and Klamath.*
Maholmb, J. M.—*Sacramento.*
McClelland, J. A.—*San Francisco.*
Mace, R. P.—*Fresno.*
Meredith, G.—*Sierra.*
Miner, Frink, Jr.—*Alpine and Amador.*
Olds, D. Jr.—*Marin.*
Peterson, W. H.—*Los Angeles.*
Parrish, E. C.—*Los Angeles.*
Perris, Otis—*Mono and Tuolumne.*
Pattison, John—*Nevada.*
Reed, Charles F.—*Yolo.*
Singleton, M. A.—*Sierra.*
Steele, Thomas H.—*Siskiyou.*
Suttrell, J. K.—*Siskiyou.*
Sherwood, T. J.—*Yuba.*
Stewart, Orrin—*Yuba.*
Smith, E. L.—*El Dorado.*
Smith, George E.—*Butte.*
Sawyer, N. G.—*Calaveras.*
Sexton, William—*Placer.*
Satterwhite, J. W.—*San Bernardino.*
Tilden, W. P.—*Butte.*
Taylor, Ed. F.—*El Dorado.*
Wiggin, C. L.—*San Francisco.*
Wilson, John L.—*Alameda County.*
Wilcox, J. W.—*Mariposa.*
Ward, R. H.—*Merced and Stanislaus.*
Yule, John—*Placer.*
Zuck, John—*Santa Clara.*

On Tuesday the follow officers were elected, being the nominees of the Union caucus, which was held on Monday evening.

Senate.—Secretary, John White; Assistant Secretary, Charles W. Gordon; Enrolling Clerk, Albert Hart; Engrossing Clerk, M. E. Gelston; Minute Clerk, Martin Rowan; Journal Clerk, Wilbur F. Heustis; Copying Clerks, E. B. Edson and Bart Morgan; Segeant-at-Arms, John Moran; Assistant Sergeant-at-Arms, James Lane; Night Watchman, T. Mahoney; S. P. Wright, President *pro tem.*

Assembly.—Speaker, John Yule of Placer; Speaker *pro tem.*, J. W. Wilcox, of Mariposa; Clerk, M. D. Boruck; Assistant Clerk, John H. Roberts; Minute Clerk, J. W. Wood; Sergeant-at-Arms, Benjamin Dore; Assistant Sergeant-at-Arms, Charles Roberts; Enrolling Clerk, John E. Youngberg; Engrossing Clerk, B. S. Marston; Journal Clerk, Lieutenant John Drum; Copying Clerks, E. L. Selfridge and John C. Breen; Watchman, Isaac H. Hathaway. Dr. M. C. Briggs, of Sacramento, was elected Chaplain, and voted a salary of $5 per day.

The ballotings in the Senate stood 31 Union to 6 Democratic; in the Assembly, 59 Union to 19 Opposition.

Wednesday the Assembly passed the bill for the amendments to the Constitution of the United States, under a suspension of the rules, by the following vote:

AYES.—Anthony, Ayres, Batchelder, Bosquet, Bowman, Brayley, Brown of Contra Costa, Brown of Tulare, Bughee, Campbell, Chamberlain, Chapelle, Chase, Clayton, Coghlin, Collier, Corey, Dorr, Dornin, Dutton, Dwyer, Eager, Frink, Goodall, Green, Hamlin, Hanshrow, Hatch, Hawkins, Hill, Hogle, Hollister, Hopper, Howard, Hunt of Sacramento, Hunt of Santa Clara, Huestis, Ireland, Kidder, Kurtz, Lee, Leech, Lemon, Lupton, Luttrell, Maholm, McClelland, Meredith, Murch, Olds, Jr., Pattison, Perrin, Peterson, Reed, Sawyer, Sexton, Sherwood, Singleton, Smith of Butte, Smith of Eldorado, Steele, Stewart, Taylor, Tilden, Wiggin, Wilcox, Wilson, Yule, Zuck —66.

NAYS—Bledsoe, Downing, Goodwin, Hoag, Holden, Hearst, Long, Mace, Parrish, Satterwhite, Ward—11.

With few exceptions, the Legislature appears to be composed of men of sober earnestness and integrity.

Both branches adjourned from Wednesday to Friday, on account of our State and National Thanksgiving Day.

QUARTZ MINING IN PLACER.—We have already, from time to time, noted the renewed interest which has of late been awakened to the quartz mining interest in Placer county, and particularly in the vicinity of Auburn. We had the pleasure, a few days since, of an interview with Capt. W. Holdridge, a gentleman well known in this city as one of the chief originators and most efficient Directors of the Fireman's Fund and Home Mutual Insurance Companies, who has recently carefully examined most of the mines about Auburn. The Captain assures us that the value of those mines has not been at all over-estimated, and so well impressed is he of their richness that he left on the steamer of the 30th ult. for New York, with the view of interesting Eastern capital in their development. Previous to his leaving, some thirty gentlemen of this city, shareholders and directors in the insurance companies above named, with whom he has been long associated in business, joined in a testimonial letter expressive of their high regard of his capacity and integrity as a business man, and wishing him the fullest success in the new enterprise upon which he was embarking to enlist the assistance of Eastern capitalists in the development of our mines. We understand that two of the late heavy owners in Gould & Curry have recently made a purchase of two quartz mines near Auburn.

NOTICEABLE.—A severe earthquake occurred at Colima, Mexico, on the 8th of October (same date as the shock which disturbed San Francisco), which caused the river Colima to overflow its banks and destroy a number of small houses. Its occurrence, simultaneously with a similar disturbance here, is especially noticeable and highly suggestive.

THE TIDE TURNED.—The last month has given California a gain of some two hundred passengers by sea, and added considerably to the State's population from the interior Territories. The tide has turned.

A NEW MINING DISTRICT.

We have had placed upon our table some very fine specimens of silver ore from an entirely new mining district, lately discovered about one hundred miles easterly of Mono Lake, and at least seventy-five miles distant from any already existing district. It has been named the Pah-ranagat Lake District. the Indian name of the lake and valley near which the mines are located. The discovery was made in March last, by Messrs. J. Ely, W. McClosky, S. S. Shutt, and three others. The location, as ascertained by running out a line from a known point, is in lat. 37 deg. 34 min. north and 115 deg. 29 min. west, which places it in the southeast corner of the State of Nevada. The overland route to San Francisco will be by Mono Lake; the water route *via* the Colorado river. The distance from Crystal Springs, in the Pah-ranagat Valley, to Call's Landing, on the Colorado, is about 125 miles, following the course of the Muddy and Virgin rivers. Water and grass is abundant.

The ore from this newly discovered region is mainly silver-bearing, and judging from samples of the croppings before us, the mines must prove very rich in depth.

Assays have been made by Mr. G. Kustel from five different samples of ore, taken from as many different lodes, three of which present marked peculiarities, and duplicates of all of which are before us. We append the assays with a description of each sample:

No. 1.—Principally carbonate of lead and antimony, yielded at the rate of $867.10 in silver to the ton of ore.

No. 2.—Carbonate of lead, copper, and antimony. $282.25 in silver.

No. 3.—Carbonate of lead and copper, with argentiferous grey copper ore and copper, silver glance. $1,036.75 in silver.

No. 4.—A specimen presenting same characteristics as No. 3, yielded at the rate of $263.90 to the ton.

No. 5.—Another specimen similar to No. 3, yielded at the rate of $337.30 to the ton. The two last each presented traces of gold.

The chief point of general interest in connection with this discovery, is the fact that it opens up an entirely new mining district, from seventy-five to one hundred miles distant from any now worked. Not more than 100 pounds of ore has been brought in, all of which was taken directly from the croppings, no point having been opened more than five feet below the surface. We understand that arrangements are being made for the immediate development of this locality.

Twelve miles east of the mines lies a fine agricultural valley, containing about two hundred quarter sections of good farming land, with an abundance of water for artificial irrigation. This land has been claimed and settlers are moving in and taking possession of their ranches.

The region adjacent to Pah-ranagat has a decided mineral appearance, and it is believed that this hitherto *terra incognita* will soon prove very valuable.

A petition has been forwarded to Washington for mail facilities, and the necessary steps are being taken to insure the presence of a peaceable and prosperous community.

The Mechanics' Institute has appointed a Special Committee to draft a law to be presented to the Legislature, for the protection of mechanics against the schemes of contractors and owners of buildings to cheat them out of their wages. It is designed that the law shall be in the nature of a lien law. The annual ball of the Institute will take place at Union Hall on the night of Thursday, the 14th inst. The Directors of the Institute have been ordered to print a catalogue of the library forthwith, and a committee has been appointed to raise funds for the erection of Mezzara's statue of Lincoln in front of the Lincoln school. The Report of the Fifth Industrial Exhibition of the Institute is now being printed at the Mining and Scientific Press Job Printing office. Extracts from the reports will be published in future numbers of our paper.

Mr. Bancroft, the historian, is busily engaged at his country residence at Newport, upon the eighth volume of his great work. Mr. Bancroft is now in his 66th year, and enjoys excellent health.

The Album Stereoscope.—Many of our readers who visited the Pavilion last Summer, will recollect that neat and new optical instrument, the invention of Mr. Mills, of this city, which he has designated as "Mills' Album Stereoscope." It is only quite recently that he has been enabled to get any manufactured for general sale, and a few, only, are now offered, at the book store of H. H. Bancroft & Co., on Montgomery street. He will soon, however, be able to supply the fullest demands of the trade. This useful instrument is designed to accompany and render far more interesting and useful those elegant household treasures known as "Ladies' Photographic Albums." It consists of a plano-convex lens, a concave silver speculum, and a chromium; all arranged in a small box, turned out of solid rosewood or ivory, and so combined as to neutralize the shadows cast by the rough surface of the card and give a flesh-like softness, tone and life-appearance to the magnified picture, in place of the harsh, cadaverous and unnatural effect produced by the common magnifying lens or stereoscope. It is applicable equally to card pictures, ambrotypes and the new style of photographic miniatures on porcelain and ivory. In a *good picture* the apparent transformation from a mere picture to the living person, with his full, clear, natural expression, is wonderful, and the effect is in exact proportion to the excellence of the original.

Interesting and Important Discovery at the New Almaden Mine.—It was accidentally discovered, some time since, so we have heard, that the slag or refuse from the furnaces at the New Almaden quicksilver mines, contained a noticeable quantity of gold. Samples of this refuse have been submitted to a number of assayers, in this city, all of whom have returned gold, varying in quantity from $10 to $20 per ton. We have further understood that about a ton of this refuse has been sent hither to be tested by a working process, the result of which will soon be known. This refuse is so thoroughly calcined and desulphurized, in the process of extracting the quicksilver from it, as to be almost entirely soluble in water, becoming completely disintegrated. Hence it will require no crushing, but may be submitted directly to the simplest amalgamating process for the extraction of the gold, which is in a perfectly free state. The cost of such a process will be merely nominal. The quantity at the works can scarcely be less than 30,000 or 40,000 tons. This discovery, if it shall be verified, will be a most interesting and important one.

California Mining Laws.—A correspondent suggests that some public action should be taken, on the part of those interested in mining, to procure a modification of some of the State mining laws, which have been found inoperative or directly injurious to the mining interest. Preliminary action on the part of those directly interested is suggested as a guide for legislation. Particular attention is called to the necessity for a law which shall meet those cases where a locator or shareholder in an unincorporated company refuses to pay the necessary assessments for holding or developing the company's claim, or to sell out to any person who will; thereby compelling his partners to develop his interest with their own, they taking upon themselves all the chances of loss, while the laggard is enabled to come in for his full share of profit, should any ensue. The necessity for such a law is apparent to every one, and we presume this, with other matters, will come up for discussion and action before the miners' convention, which will meet at Sacramento on the 17th of January next.

Personal.—We had the pleasure, yesterday, of a visit from John Arthur Philips, Esq., one of the best metallurgists of the day, and one who has made the metallurgy of copper a especiality. He is well known to the world as in connection with that valuable work known as "Phillips & Darlington's Metallurgy of Copper." Mr. P. arrived on the last steamer, and leaves in a day or two for the interior, whither he goes to inform himself, by personal observation, with regard to the character and value of our mineral resources.

The New Collector.—Notwithstanding the frequent statements in the dailies of late, that the newly appointed Collector of this port, Gen. Miller, would assume the duties of his office on such and such a date, the General has persistently kept his own councils, and *outflanked* all the meddlesome reporters by closing his own time. He entered upon the duties of his office unheralded, on Tuesday morning last, taking the place of Col. James, who retires. No person ever took charge of the collection of the customs for this port, more free from the trammels of party and friends, than has Gen. Miller; and no one has ever entered upon the discharge of those duties in whose honesty and faithfulness the Government and community at large has felt at the time a more implicit confidence. The wisdom, integrity, and promptness which has heretofore guided him in his arduous and responsible duties, as a military officer, will not fail him in his new position of civil and commercial responsibility.

Natural Curiosities.—In the middle of the great Humboldt salt bed is a fine fresh water spring, about twelve feet in diameter. It has been sounded to the depth of 150 feet, without finding bottom. There are other smaller springs of fresh water, the bottoms of which have never yet been sounded by lead or plummet. Some of these springs are warm, others cold. On one side of this salt field is a volcanic mountain, now burnt out. The shape of the crater is still distinctly to be seen. One side of the mountain is split off, allowing the lava to flow out down the side of the mountain and far out into the plain, where it is yet to be seen plainly seen as when the mountain first burst asunder.

Fish Breeding, which has been so successfully practiced for years in France, is about to be introduced into this country. It has already been done to some extent by private enterprise. The Massachusetts Legislature has directed the appointment, by the Governor, of a commission to carry out the project. The appointment has been made, and the commission was recently looking around among the rivers and lakes of New Hampshire, and are soon going to take measures to introduce salmon and other fish into Massachusetts waters.

Earthquakes at the East.—Our Eastern friends are occasionally experiencing the sensation of earthquakes. We lately mentioned the occurrence of quite a severe "shock" in the Mississippi valley. On the 17th of October last, nine days after the severe one here, the citizens of Lancaster and Charter counties in Pennsylvania were treated to quite a "tremblor," which was attended with a heavy rumbling noise and a considerable shaking of the houses. A committee of the Linnean Society was appointed to collect all the facts with regard to it.

Palatial Residence.—The finest residence outside of San Francisco, and, in fact, as fine as any in San Francisco, says the Chico *Courant*, is being erected by General Bidwell, at a cost estimated all along from forty to one hundred thousand dollars.

To Correspondents.—We will endeavor to comply with the suggestion of our correspondent "X. Y. Z."

Our correspondent J. A. B., from Summit City, will find his suggestion fully covered by the "Call for a Convention," which we have placed at the head of our columns this week. The call, he will notice, is for a mass convention. The propriety of such a call is elsewhere alluded to.

Important Real Estate Sale.—Quite an important real estate sale took place at the corner of Mission, Sixth and Jessie streets, in this city, a few days since. The property extended 275 feet on Mission street and 235 on Sixth, divided by Jessie street. It was sold in thirty-three separate lots, for the aggregate sum of $79,030.

Patent Right for Sale.—The exclusive right for the manufacture and sale of "Hutchinson's Wine and Cider Mill and Press, for the States of California and Oregon, is advertised for sale in another column. It is a valuable patent, and the offer affords a fine chance for business.

Hansbrow's Hydrostatic.—Hansbrow's Hydrostatic air water pressure engine quartz mill, at Rocky Falls, (Irishtown) Amador county, according to the *Ledger*, has been in successful operation the past week, so the long mooted question as to whether it is a "practical machine" is settled. The mill is a model one and worthy a day's travel to look at.

The Result.—The railroad projects of the English capitalists, who recently visited the West, are summed up in a double track on the Erie road from New York to Salamanca, the construction of a bridge at Buffalo, and the extension of the branches of the Atlantic and Great Western road.

Engraved to Order.—Persons who desire to illustrate their individual establishments or business, should give us their orders for Engraving and Printing, and we will guarantee good work and reasonable prices.

DEWEY & CO.,
Patent Agents, Publishers and Job Printers, 505 Clay st.

OUR NEW YORK AGENCY.

Mr. Geo. M. Newton is our authorized agent in New York City, and will receive advertisements and subscriptions for the Mining and Scientific Press at regular rates. Sample copies of our weekly and monthly issues can be procured by calling upon him, at the office of the "Stockholder," No. 72 William street.

PHILADELPHIA AGENCY,

Parties wishing to subscribe or advertise in the Mining and Scientific Press can be accommodated by calling upon our Agent, Mr. Turner Hamilton, at the Assembly Building, 106 South Tenth street, Philadelphia, Pa., where sample copies of our publications can always be found.

The charges for drafts or orders, payable at any *distributing* post office in the United States, are as follows: Sums under $10, ten cents; over $ 0 and under $20, fifteen cents; over $20 and not exceeding $30, twenty cents. No orders for over $30 will be issued. The orders are payable in U. S. Legal Tenders, or the bills of the National Banks, and are purchasable at par for like funds; in other words, you pay $10, $20 or $30, and the registry fee, in greenbacks, and get an order for a corresponding amount in the same funds.

Traveling Agent.

Mr. Robert Lattimore is now on a canvassing tour for the Press through Butte, Colusi, Tehama, Shasta, and Siskiyou counties, and we recommend him to the favorable consideration of our friends.

To Blacksmiths.

An excellent, strong lad, from the interior, 17 years of age, desires to learn the Blacksmith's trade. His parents wish him to engage with a reputable firm, and learn his business thoroughly. Address, or inquire at the office of the Mining and Scientific Press. 2v11tf

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WASHING POWDER.

Facts that can be Proved:

One Pound of the Standard Soap Co.'s CONCENTRATED ERASIVE WASHING POWDER will do the work of two pounds of Bar Soap, saves half the time, labor and expense; does not injure the clothes, but turns them out sweet and clean. No additional Soap needed; works equally well in hard and soft water; excellent for woolens, as it contains no resin; splendid for dishes, milk cans and dairy fixtures. Ten pounds will produce a barrel of fine Soft Soap in ten minutes.

Manufactured and put up, with full directions for use, in pound papers and packages of 10, 12 and 24 lbs., by the

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Send it to Your Friends.
Issued at the close of EACH Month.
PRICE.....50 CENTS.

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IMPROVED BLOW-PIPE.
This Convenient Helpmeet
— TO THE —
ASSAYER, CHEMIST, DENTIST, JEWELLER, PROSPECTOR AND MILLMAN,

Can now be procured, at the Patentee's price, by sending your orders, by mail or otherwise, to the

Office of the Mining and Scientific Press.

This article was more fully mentioned in the Press of April 15th, 1865. Since that time, however, Mr. Hendy has made a further improvement by attaching a rubber hose between the mouth-piece and the pipe, enabling the blower to change his position without disturbing the direction or constant accuracy of the current on the object upon which it is turned. The main portion of the blow-pipe is made with a joint, at which a valve is placed, which is opened when the operator blows and closed immediately when he ceases. By this arrangement the little bag or bladder is readily filled at a single breath, and with very little exertion. When so filled, a continuous current of air is forced from the nozzle of the pipe by the mere contractive force of the gutta percha. This force is uniform until the air is very nearly exhausted. The current may be easily varied or entirely cut off by gently pressing the fingers upon the neck of the bladder above the nipple to which it is attached.

Price, Complete.....$5.00.
Call and examine samples.
Sent by mail, if desired. Address

DEWEY & CO.,
16v10-tf No. 505 Clay street, San Francisco

THE artesian well, at the western limits of Chicago, is one of the great curiosities of our country. It is bored to the depth of 711 feet, and is flowing at the rate of 600,000 gallons pure water daily, which is forced to the height of twenty-five feet above the grouud level. Two other wells are being sunk near by; one for oil and the other for water. The latter has been drilled to the depth of 650 feet, and about ten feet are added to it each day.

IT is stated that no flag of a Vermont regiment was ever in the keeping of the enemy during the war.

To Delinquent Mining Companies.

We hereby give especial notice to the Secretaries, Trustees and Shareholders, of such Mining Companies as are owing us bills for advertising of OVER SIX MONTHS STANDING, that we shall commence action, according to law, to collect the amounts due, if the same are not immediately settled.

DEWEY & CO.,
Office Mining and Scientific Press, Nov. 25, 1865.

Notice.—The interest of E. D. Waters, Jr., in the job printing firm of Dewey, Waters & Co., has been purchased by A. T. Dewey. The business of the late firm will be continued under the title of "MINING AND SCIENTIFIC PRESS JOB PRINTING OFFICE."

San Francisco, November 18, 1865.

Deserved Testimonial.

GRIZZLY FLAT, Oct. 18, 1865.

MESSRS. HUNGERFONN & HENDY—*Gentlemen:* We have run your Concentrator for several days past, in our 5-stamp Mill, and, as far as can be ascertained at present, it is a perfect success. When running at the rate of from two hundred and ten to two hundred and twenty-five revolutions per minute, we have lost neither quicksilver nor sulphurets. Formerly, when using copperplate riffles and blankets, we found that in spite of the utmost precaution, quicksilver would escape over them all. Wishing you all success, we remain Your obedient servants,

E. A. BIGLER.
17v11qy S. F. DAVIS.

Metallurgy.

EUROPEAN METALLURGICAL WORKS,

—AND—

Practical Mining School,

Bryant Street, Between Third and Fourth,

SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. KIMBALL, J. R. MURPHY.
10v10

G. KUSTEL,

Metallurgist and Mining Engineer,

Stevenson House, corner Montgomery and California sts.

Ores Analyzed,

Advice given, and Plans Furnished for working of different Ores. Mines examined and reported upon.
20v11 3m

BOALT & STETEFELDT,

Metallurgists and Mining Engineers

AUSTIN, NEVADA.

Western Branch of ADELBERG & RAYMOND, No. 90 Broadway, New York. 11v11

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FOR REFINING COAL OIL,

At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist, Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,
17v10 643 Third Street, bet. Brannan and Townsend.

SANTA CLARA COLLEGE, S. J.,

SANTA CLARA, CAL.

Conducted by the Fathers of the Society of Jesus.

The FIFTEENTH ANNUAL SESSION of this College will commence on

Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $350

For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco.
3v11 REV. A. MASNATA, S. J., President.

Professional Cards.

Our Patent Agency.

The PATENT AGENCY of the MINING AND SCIENTIFIC PRESS has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of LETTERS PATENT from the United States and foreign Governments cannot be over-rated, and the Proprietors of the PRESS, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

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DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.

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Drawings of Models made for parties applying for patents at Washington or London. mar25-tf.

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COURT COMMISSIONER, appointed by the Fourth District Court, COMMISSIONER OF DEEDS for Nevada and Massachusetts,

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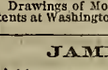
Entrances opposite City Hall, Merchant street, and 636 Clay street.
14v11tf

DR. H. AUSTIN,



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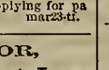

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JAMES N. OLNEY—Auctioneer.

SECRETARIES of Mining Companies are invited to examine our carefully prepared Blanks and Forms for Account Sales and Orders for Stock sold at Assessment Sales, and which will greatly assist them in keeping their records. 2v10

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Office, No. 540 Washington Street, San Francisco.
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Mining Engineer and Metallurgist,

Address - - - - - San Francisco.
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MINING ENGINEER,

Will make Surveys and Examinations of Mines, or give advice regarding their working, the erection of Machinery, etc.

Office at Union Iron Works, corner of First and Mission sts., or Lock Box 2,077 Post Office, San Francisco.
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—AND—

Commissioner of Deeds for the State of Nevada and the Territory of Arizona,

AND FOR THE

STATES OF MASSACHUSETTS AND MAINE.

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Will examine, survey and report upon mines, and conduct and advise concerning investments in mining property, or the machinery management and expenditures of mines.
22q*

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Informs his patrons that he has removed his DRAWING SCHOOL from Pine street to

410 Kearny Street.

Drawing Classes in the Evening will take place as usual. DRAWINGS FOR PATENTS accurately and neatly done.
20v11-1m

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Pacific Glass Works

Are now prepared to execute orders for the manufacture of

All Kinds of Bottles to Order.

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Barstow's Metallic Burial Caskets and Cases.
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MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
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ARTIFICIAL LEG,

Manufactured in Philadelphia, Penn.

JARVIS JEWETT, AGENT.

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All kinds of COPPER WORK done to order in the best manner. Particular attention paid to Steamboat, Sugar House and Distillery work.

Repairing promptly and neatly attended to.
13v11

Fire, Hydraulic and Suction Hose

And Leather Belting.

M. M. COOK & SON,

501 Battery Street, San Francisco,

Are now manufacturing as above, Fire, Hydraulic and Suction Hose, and Leather Belting, of any dimension and in any quantity which may be desired. Fire Hose and Belting constantly on hand or manufactured to order. Also Saddles and Horse Collars.

The subscribers would respectfully ask purchasers to call and examine their stock—also testimonials of the efficiency of their work from such as have used their hose both for fire and mining purposes. A diploma was awarded to us last year, by the Mechanics' Institute, of this city, and a silver medal this year. 12v11-1y

NEW YORK PRICES.

WATCH REPAIRING AT NEW YORK PRICES.

C. E. COLLINS,

No. 602 Montgomery street, San Francisco.

EXCLUSIVE AGENT

—FOR THE—

AMERICAN WATCH FACTORY.

A large assortment of these

Superior Watches,

In Gold and Silver Cases,

Constantly on hand, and sold at Factory prices. Also,

ENGLISH AND SWISS WATCHES,

Imported directly from the Manufacturers.

The American Company are now making

VERY FINE WATCHES FOR LADIES.

☞ A large assortment of Gold Chains and Jewelry. 25v10-6m

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Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The Press contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

A Business Compliment.

PETALUMA, Oct. 4, 1865.

MESSRS. DEWEY & CO.—Gentlemen: Your note informing me that my patent for Crushing and Baling Machine is ordered to issue is at hand. Please accept my thanks for the prompt and business like manner with which the case has been conducted, and inclosed find twenty dollars for balance Government fees. Respectfully, etc. JACOB PRICE.

By Authority of the State of California,

Having fully Complied with the Law by a Deposit of $525,000 Bonds of the State of California and the United States.

BIGELOW & BROTHER,

General Insurance Agents.

Fire, Marine, and Life Insurance.

CAPITAL REPRESENTED $15,000,000.

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COMPANIES REPRESENTED:

HOME INSURANCE CO. OF N. Y., Assets	$3,700,000
HARTFORD FIRE INSURANCE CO., Assets	1,500,000
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ARCTIC INSURANCE CO., N. Y., Assets	700 000
WASHINGTON INSURANCE CO., N. Y., Assets	700,000
NEW YORK ACCIDENTAL INS. CO., Assets	260,000
CONNECTICUT MUTUAL LIFE INS. CO., Assets	8,000,000

POLICIES issued on Freights, Cargoes and Treasure from and to all parts of the World.

FIRE INSURANCE POLICIES issued on all kinds of Insurable Property in Country or City.

ACCIDENTAL POLICIES issued on the most favorable terms, insuring the payment of stated sums in the event of death, or a fixed Weekly Compensation for Total Disability for the term of twenty-six weeks for any one accident. These Policies cover all kinds of Accidents, and are issued for single trips or for the year.

Losses Payable in Gold Coin of the United States.

We represent Companies

That Have Stood the Test of Years,

And offer as favorable terms as any on the Pacific Coast.

BIGELOW & BROTHER,
20v11tf. **General Agents.**

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For Sale

AT THE

OFFICE OF THE MINING AND SCIENTIFIC PRESS

No. 505 Clay Street, corner of Sansome.

Blanks for Mining Companies, Secretaries, Shareholders and others, always on hand, or printed to order, at our office.

Among others are those of the following forms:

Shareholder's Proxy.

KNOW all men by these presents, that I, ... do hereby constitute and appoint ..... my attorney and agent, for me and in my name, to vote as my proxy, at a meeting of the ..... Mining Company, to be held ..... 186 , according to the number of votes that I should be entitled to cast were I there personally present.

In witness whereof I have this day hereunto set my hand and seal. .....[Seal]

Dated 186

Assessment Notice.

..... Company

.....

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the ..th day of ....., 186 , an Assessment of .....per share was levied upon the Capital Stock of said Company, payable on the ..th day of .....186 , in United States gold and silver coin to the Secretary.

Any stock on which said Assessment shall remain unpaid on Saturday, the ..th day of ....., 186 , will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on ....., the ..th day of ....., 186 , to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees.

.....Secretary.

Office.....

NOTICE.—There are delinquent, upon the following described Stock, on account of assessment levied on the ..th day of .....186 , the several amounts set opposite the names of the respective shareholders as follows, to wit:

Names.	No. Certificate.	No. Shares.	Amount.
Theophilus Thistle	23	14	$140 00
Peter Pipe	2	3	30 00

And in accordance with law and an order of the Board of Trustees, made on the ..th day of ..... , 186 , so many shares of each parcel of said stock as may be necessary, will be sold at the.....

....., on ....., the ..th day of....., 186 , at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

.....Secretary.

Office.....

☞ Our advertisers are furnished with blank Assessment Sale notices free of charge. Orders from the interior promptly filled, by mail or express, as may be desired.

To Publishers.

An editor and practical printer, of good experience and recommendation, desires a situation and will accept a moderate salary on trial. Address this office.

AN EXPENSIVE BANQUET.—At the farewell dinner which Sir Morton Peto and the English capitalists gave in New York, the other day, two hundred and fifty guests were present, and the dinner cost about $25,000, just $100 for each person, being, no doubt, the most elaborate and complete banquet ever given in this country. At least twenty-four kinds of wine were drank, and the price of some of the brands, the imperial Tokay for instance, was $50 per bottle.

STEAM WHALERS.—During the past summer a screw steamer, the Wolf, was sent out from St. Johns, New Foundland, and engaged in the Greenland whalefishery. She returned after an absence of two months, having been on the fishing ground only one month, with a full cargo, valued at $40,000. Whaling, by steam, we believe is something new.

SISTER OF MAJ. GEN. GRANT.—Some time ago an item was circulating to the effect that Maj. Gen. Grant had a sister living in Sutter county. The Marysville *Appeal* ascertains that it is true that Maj. Gen. Grant has a sister in California, and that the lady, Mrs. Dent, resides in San Joaquin county.

AN eagle was observed floating down Napa river, on a log, during the flood of Wednesday, and he had become so dreuched and exhausted by the copious rains as to be easily captured.

IRON WATER PIPES are about to be introduced into Grass Valley to take the place of the wooden ones, which have done very imperfect duty for the past six years.

THE owners of several mines recently rejected at Mazatlan by the French Commissariat have preferred a protest, which will be sent to the City of Mexico.

Mining and Scientific Press

JOB PRINTING OFFICE,

No. 505 Clay street, corner of Sansome.

CERTIFICATES
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STOCK
—FOR—
MINING
—AND—
PETROLEUM
Companies
Neatly Printed.

Stock Certificates of all kinds embellished with wood cuts and electrotype engravings. We devote special attention to the execution of all kinds of work required by Mining Companies, Machinists and Manufacturers.

LICK HOUSE,

Corner of Montgomery and Sutter streets,

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This elegant and commodious Hotel is situated on the principal promenade street of San Francisco. The Lick House is finished and furnished with a degree of beauty and excellence unsurpassed, combining all the modern applications and arrangements of a FIRST CLASS HOTEL, thus offering superior inducements to the traveling public. The proprietors assure their patrons that the Lick House shall not be excelled in any of its appointments, or in polite attendance or attention to all the comforts of its guests.
15v11

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GEORGE T. PRACY,

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OPPOSITE MECHANICS' MILL,

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STEAM ENGINE, FLOUR AND SAW MILL,

And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

☞Special attention paid to Repairing.☜ qy-3

UNION IRON WORKS,

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WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

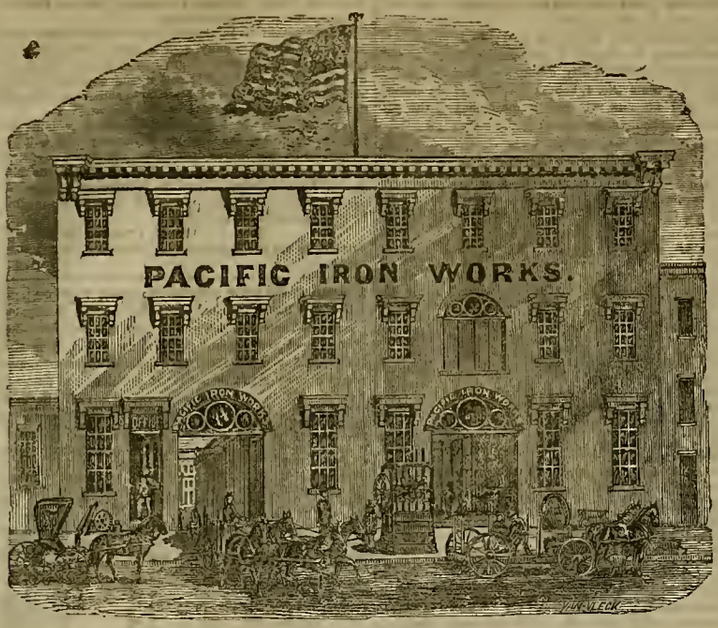
And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Dunbar's Patent Self-Adjusting Steam Piston PACKING, for new and old Cylinders, manufactured to order.

Front Street, between N and O streets,

14v11 SACRAMENTO CITY.



THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting Machinery of the most approved construction. Flour, Saw, and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully Solicited.

GODDARD & COMPANY.

Vulcan Iron Works Company

[ESTABLISHED 1850.]

First, Natoma and Fremont Streets.

IRON FOUNDERS,

Steam Engine and Locomotive

BUILDERS,

Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as

Mining, Steamship, and Steamboat Machinery,

Railroad Machinery, Locomotives, Car Trucks, Car Wheels, Housings and Irons; and Flouring Mills, Quartz Mills, Sugar Mills, Saw Mills,

Manufacturing Machinery of Every Kind.

Sole Manufacturers of

HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR;
BEATH'S AMALGAMATOR;
HESSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;
BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;
FAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;
JONVAL'S IMPROVED WATER WHEEL;
LEFFEL'S AMERICAN DOUBLE TURBINE WATER WHEELS;
STEVEN'S PISTON PACKING RINGS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Grate Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.

Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

Miners' Foundry

—AND—

MACHINE WORKS,

First St., between Howard and Folsom Streets,

SAN FRANCISCO.

EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as

Steam Engines and Boilers, Flour, Saw and Quartz Mills,

Machinery, Mining Pumps, Amalgamators,

Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.

All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.

HOWLAND, ANGEL & KINO.

LEWIS COFFEY. J. S. RISDON

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work executed as ordered, and warranted as to quality.

Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.

UNION IRON WORKS!

Corner First and Mission streets,

SAN FRANCISCO.

ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Quartz Mills, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.

Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter. Also, Scott and Eckart's Adjustable Cut-off Regulator—best in use; W. R. Eckart's Balance Valve for Stationary Engines; Woodward's Patent Steam Pump and Fire Engine.

Boilers.

Locomotive, Flue, Tubular, Upright, Cylinder and Cornish, and every variety of Boiler Work. All sizes of tubes and pipes for pumps.

Amalgamating Machinery.

Wheeler & Randall's Improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Beldin's pan, Veatch's tubs, Prater's concentrators, Waklee's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

BLAKE'S PATENT QUARTZ CRUSHERS, of all sizes.

Oil Boring Tools and Machinery,

Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.

We have the facilities for working gold and silver quartz and other ores, to test their value, by the hundred weight or ton.

Russia Iron Screens, of all degrees of fineness and of all qualities of iron.

All work done in the best manner at the lowest cash prices.

21v10 **H. J. BOOTH & CO.**

JOHN P. GALLAGHER. JOSEPH WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to. Prices moderate.☜

No. 125 First street, opposite Minna next door to Pacific Foundry. 12tf

Removed from Oregon street, between Front and Davis

To Printers.

We have for sale, at a bargain, a Second-hand Half-Medium (largest size), Ruggles' Engine Job-Printing Press, most approved pattern. It is in excellent condition, and warranted to work as good as new. Apply soon, at office of the MINING AND SCIENTIFIC PRESS. 19v11tf

PALMER, KNOX & CO.,

Golden State Iron Works,

Nos. 19, 21, 23 and 25 First Street,

SAN FRANCISCO.

MANUFACTURE ALL KINDS OF

MACHINERY,

STEAM ENGINES AND QUARTZ MILLS

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight, without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S

NEW GRINDER AND AMALGAMATOR,

HEPBURN & PETERSON'S

AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

FULTON

Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

SAN FRANCISCO

Foundry and Machine Works,

N. E. Cor. Fremont and Mission streets,

Manufacturers of

Marine and Stationery Engines!

Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.

—ALSO—

Wine, Cider, Cotton and Tobacco Presses of the latest Improved Patterns.

Brodie's Improved Patent WIND BLAST SEPARATOR, for Dry Crushing; Salmen's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Baux & Guiod's Amalgamator and Separator; W. W. Tupper's Patent Sectional Grate Bar; Coal Oil Well Boring Machinery complete, on hand.

STEAM ENGINES AND BOILERS,

Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.

MACHINERY, OF ALL DESCRIPTIONS,

Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates.

6v11-1y **DEVOE, DINSMORE & CO.**

Novelty Iron Works,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 35 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY*. Send for a Circular.

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SAN FRANCISCO 21v9tfq

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, San Francisco. qy29-t

JOHN LOCHHEAD'S

STEAM ENGINE WORKS,

Beale Street, near Mission Street,

SAN FRANCISCO.

Steam Engines of every description built to order—Marin Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes; Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer

RATES OF FARE.—The rates of fare by the P. M. Steamship Colorado, which leaves this port to-day, are as follows:—First cabin, upper rooms, $210; do inside rooms, $162½; Second cabin, $90; Steerage, $60. The Colorado connects with the Atlantic on the Atlantic side.

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Bunker Hill Quartz Mining Company, Amador County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 27th day of November, 1865, an assessment of five dollars ($5) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 6th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 20th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

WALES L. PALMER, Secretary.

Office, No. 19 First street, San Francisco. dec9

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 6th day of November, 1865 the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allred, W C	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	10-ea 110	$110 00
Adams, O S	414	5	5 00
Ament, H E	not issued	5	5 00
Beard, C M	72	10	10 00
Brown, Thomas	125	6	6 00
Brown, Thomas	156	4	4 00
Brown, Mrs. L C	125	5	5 00
Berry, Ceo E	50	15	15 00
Booker, W L	212	10	10 00
Botts, John	245	1	1 00
Boggs, Geo W	137	8	6 00
Boggs, A G	67	11	11 00
Bowland, Wm	364	5	5 00
Berry, Harrison	101	25	25 00
Burk, John	51	10	10 00
Bell, Jonathan	38	5	5 00
Bath, Joseph	not issued	12	12 00
Christianson, Phillip	30	1	1 00
Christianson, Phillip	31, 32	10-ea 20	20 00
Christianson, Phillip	36	9	9 00
Carmichel A	395	39	39 00
Cornwell, J F	80, 81, 82, 83	15-ea 40	40 00
Castle, Levi	431, 432	5-ea 10	10 00
Castle, Levi	not issued	5	5 00
Coulter, Samuel	141	10	10 00
Dutton, David	38	9	9 00
Dutton, David	369	15	15 00
Demming, Wm	73	10	10 00
Elgin, W A	44	5	6 00
Grigsby, T L	99	10	10 00
Grigsby, A D	100	10	10 00
Grigsby, E D	79	10	10 00
Grigsby, R F	94	10	10 00
Gates, D V	320	5	5 00
Gilam, J	73, 74	10-ea 20	20 00
Gibson, James	39, 40	10-ea 20	20 00
Hargrave, E J	44	5	5 00
Hollingsworth, H	161	5	5 00
Hammett, E W	318	10	10 00
Hastings, D L	not issued	23½	24 00
Kerchoval, Sarah A	313	10	10 00
Knigbt, Tbomas	37	4½	5 00
Kelsta, J T	28	5	5 00
Kelsta, J T	29	4	4 00
Kelsta, J T	not issued	5	5 00
Lachman, Louis	53	10	10 00
Linu, Ceo	19	10	10 00
Mudgett, John	321, 121	5-ea 10	10 00
Mott, Biram	139	12 1-6	13 00
Mercer, Mrs Susan	98	10	10 00
Mecklenberg, Joseph	165	5	5 00
Mylett, James	52, 53	10-ea 20	20 00
Mylett, James	54	8	8 00
Miller, John	254	5	5 00
Mason, Charles	211	5	5 00
Ogden, Thomas	408	1	1 00
O'Neal, J	337	5	5 00
Pearson, I N	114, 115, 183, 375, 376	5-ea 25	25 00
Pearson, f N	370	20	20 00
Pearson, I N	370	1	1 00
Pearson, I N	372, 373, 374	10-ea 30	30 00
Pilkington, J B	75, 76	20-ea 40	40 00
Pilkington, J B	77	8	8 00
Rutter, Mory &	244	5	5 00
Robinson, J S S	66	10	10 00
Smittle, John	133	13⅓	14 00
Tanner, O	58	10	10 00
Tanner, O	59	15	15 00
Whitton, C J	76	10	10 00
Whitton, Wm H	332	7	7 00
Wines, C B	120	5	5 00
Wyckoff, J L	18	10	10 00
Whitton, E	95	10	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Jewett Gold and Silver Mining Company, Gold Hill District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of December, 1865, an assessment of one ($1) dollar per share was levied upon the assessable capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Friday, the 5th day of January, 1866, will be advertised on Saturday, the 6th day of January, 1866, as delinquent, and unless payment shall be made before, will be sold on Saturday, the 20th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. M. BURNHAM, Secretary Pro tem.

Office, 436 Jackson street (up stairs), San Francisco. dec9

Jefferson Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 2, levied September 25, 1863, of fifty cents; No. 8, December 11, 1863, of fifty cents; No. 4, February 4, 1864, of one dollar, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	No. 2.	No. 3.	No. 4.	Total Amt.
Brown, J S	130	11				$11 00
Brown, J S	140	9				0 00
Cassell, J F	10	10	$5 00	$10 00	15 00	
Clarke & Blakeley	44	9¼	4 63	9 25	13 88	
Curtis, S T	95 to 102	10-ea	40 00	80 00	120 00	
Curtis, S T	103	12½	6 25	12 50	18 75	
Clifford, S O	112	12½			12 50	
Clifford, S O	131	25			25 00	
Clark, H	28	25			25 00	
Clark, H	29	25			25 00	
Clark, H	113	11½			11 50	
Doling, P F	3	20			20 00	
Donzel, A J	5	10			10 00	
Faulkner, G H	41	5			5 00	
Gilbert, Jos	65	20			20 00	
Gilbert, Jos	68	20			20 00	
Gilbert, Jos	67	20			20 00	
Gilbert, Jos	135	6			6 00	
Gilham, W B	133	7			7 00	
Bolman, T	40	5			5 00	
Jacobs, N B & Co	42	10			10 00	
Janes, J L	143	15			15 00	
McGahey, Jas	22	6½	3 12	8 25	9 37	
Pinkerton, Chas	31	9¼	4 62	9 25	13 87	
Seaver, L B	23	10	$5 00	5 00	10 00	20 00
Seaver, L B	24	10	5 00	6 00	10 00	20 00
Seaver, L B	25	10	5 00	5 00	10 00	20 00
Smith, W K	4	20	10 00	10 00	20 00	40 00
Rex, H V	134	12				12 00
Sweetland, J O	129	5				6 00
Woodford, H C	12	20				20 00
Watson, N A	115	10				10 00
Watson, N A	144	25				25 00
Watson, N A	147	46½				48 50

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of December, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 8th day of January, 1866, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. dec9

Lady Franklin Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of December, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the 12th day of December, 1865, in United States gold and silver coin, to the Secretary, at his office, 305 Montgomery street, San Francisco, Cal., or to THOMAS PETERS, at the mine at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 6th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 26th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, San Francisco. dec

Madison Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 3, levied on the 27th of November, 1863, of fifty cents per share, and No. 4, levied February 4th, 1864, of one dollar per share, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	No. 3.	No. 4.	Total Amt.
Anderson, E O	12	5	$2 50	$5 00	$7 50
Bryant, A J	99	5	2 50	5 00	7 50
Clifford, S O	51	9	4 50	9 00	13 50
Clifford, S O	53	45			45 00
Clifford, S O	54	5			5 00
Clifford, S O	56	5			5 00
Clifford, S O	57	5			6 00
Clifford, S O	58	5			5 00
Clifford, S O	63	7½			71 50
Clifford, S O	118	14			14 00
Jacobs, N B	75	10	5 00	10 00	15 00
McAllister, P	16	25			25 00
McAllister, P	17	25			25 00
McAllister, P	18	25			25 00
McAllister, P	19	25			25 00
McAllister, P	21	10			10 00
Louis Dionne	130	10			10 00
Morrison, J C Jr	98	5	2 50	5 00	7 50
McHarg, D P	106	10			10 00
Pryor, C M	48	40	20 00	40 00	60 00
Pryor, C M	37	5			5 00
Plummer, B L	83	10			10 00
Spitzer, L A	126	5	2 50	5 00	7 50

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of December, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at auction, at the office of the Company, by Jones & Beudixen, auctioneers, on the 8th day of January, 1866, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C FASSETT, Secretary.

Office, 402 Front street, San Francisco. dec9

Paragon Petrolcum Company---Location of Works: Mattole District, Humboldt County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of December, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and and silver coin, to the Secretary, at the office of the Company, No. 206 Jackson street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 6th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 26th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

M. J. MCMANUS, Secretary.

Office, No. 206 Jackson street, San Francisco. dec9

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Yankee Blade Mining Company, Reese River Mining District, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 6th day of December, 1865, an assessment of fifteen (16) dollars per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 29th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. T. ATWOOD, Secretary.

Office, No. 329 Montgomery street (Stevenson House), San Francisco. dec9

Zenith Gold and Silver Mining Company, Mountain Ranch District, Calaveras County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 6th day of November, 1855, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	Amount of Assessm't.	Paid thereon.	Balance Due.
Angler, W R	242	10	$32 50	$12 50	$20 00
Booraem, H T	8	25	81 25	43 75	37 50
Booraem, H T	7	25	81 25	43 75	37 50
Booraem, H T	8	25	81 25	43 75	34 50
Booraem, H T	9	12	39 00	24 80	14 40
Booracm, H T	10	10	32 50	17 50	15 00
Bell, John P	59	12	39 00	17 40	21 80
Beers. H M	89	10	32 50		32 50
Bernard, Robert	218	10	32 50	26 00	6 50
Burr, A E	222	22	71 50	68 00	13 50
Barnes, W F	245	87	282 75	130 50	152 25
Crowe, C A	27	25	81 25	18 75	62 50
Coulter, James	80	10	32 50	22 50	10 00
Cooper, J H.	201	3	9 75	1 35	8 40
Cooper, J H	212	7	22 75	3 15	19 80
Davis, Chas H	200	2	6 50	90	5 60
Franklin, E	1	25	81 25	6 25	75 00
Franklin, E	2	25	81 25	6 25	75 00
Franklin, E	3	25	81 25	18 75	83 50
Franklin, E	4	12	39 00	29 00	10 00
Fox, J W	93	8	26 00	14 00	12 00
Fuller, Geo W	204	6	19 50	1 50	18 00
Fuller, Geo W	205	6	19 50	1 50	18 00
Fulton, J M	217	5	16 25	11 25	5 00
Graham, Edw	235	2	6 50	1 00	5 50
Hent, R W	32	25	81 25	8 25	75 00
Hent. R W	33	25	81 25	6 25	75 00
Holzheimer, H	38	25	81 25	89 75	41 50
Holzheimer, H	39	12	39 00	19 60	19 40
Holzheimer, H	40	10	32 50	15 50	17 00
Harris, Alf	133	12	39 00		39 00
Harris, Alf	159	12	39 00		39 00
Harley, C	140	23	74 75	8 40	66 35
Hinds, John F	146	10	32 50	22 50	10 00
Hinds, John F	194	15	48 75	30 50	18 25
Hall, J H	158	10	32 50	25 60	7 00
Hewitt, Agnes	195	5	16 25	11 50	4 75
Hall, Mary G	208	5	16 25	11 25	5 00
Hamilton, H M	210	62	201 50		201 60
Hamilton, H M	215	20	65 00	5 00	60 00
Hunt, J A	226	10	32 50	26 00	6 60
Johnson, Ceo H	25	10	32 50	15 00	17 50
Jonnson, A P	224	5	16 25	11 25	5 00
Johnson, Eben	239	10	32 50	22 50	10 00
Jones, Wm C	116	5	16 25		18 25
Knapp, W H	91	12	39 00	33 00	6 00
Lyon, W S	105	5	16 25	3 75	12 50
Lyon, W S	188	5	16 25	12 75	3 50
Lyon, W S	187	7	22 75	16 50	6 25
Lewis, L L	114	10	32 50	2 50	30 00
Lewis, L L	207	14	45 50	3 50	42 00
Longfellow, E N	163	10	32 50	2 50	30 00
Lontz, Wm H	199	2	5 50	3 90	2 50
Lentz, Wm H	225	3	9 75	5 85	2 90
Moon, Ceo C	13	25	81 25	20 25	61 00
Maxon, W B	139	12	39 00	2 40	36 60
McKeo, D R	158	13	42 25	29 90	12 35
McKee, D R	169	10	32 50	30 50	2 00
Mann, John	189	20	65 00	6 00	59 00
Mitchell, F S	223	55	178 75	3 75	175 00
Mitebell, F S	237	25	81 25	11 25	70 00
Norton, Samuel	143	10	32 50	25 50	7 00
Nourse, E F	244	20	65 00	35 00	30 00
Osborne, W F	61	25	81 25	18 75	62 50
Osborne, W F	53	25	81 25	18 75	62 50
Partridge, H C	124	10	32 50	24 00	8 50
Perkins, J G	128	5	16 25	1 25	15 00
Perkins, J G	135	5	16 25	1 25	15 00
Perkins, J C	147	10	32 50	21 00	11 50
Perkins, J G	149	10	32 50	2 50	30 00
Potter, John	241	10	32 50	12 50	20 00
Reed, J C	16	25	81 25	56 25	25 00
Reed, J C	17	25	81 25	56 25	25 00
Reed, J C	18	25	81 25	56 25	25 00
Reed, J G	19	12	39 00	27 00	12 00
Reynolds, H D	112	2	6 50		6 50
Reed, Gilman	152	5	16 25	1 25	15 00
Regensberger, H	228	10	32 50	22 50	10 00
Regensberger, H	229	5	16 25	13 25	3 00
Regensborger, H	230	10	32 50	20 50	12 60
Regensberger, H	231	15	48 75	35 75	13 00
Regensborger, H	232	50	162 50	120 00	42 50
Regensberger, H	233	2	6 50	5 50	1 00
Stratton, E N	130	5	16 25	1 25	15 00
Thompson, John	145	5	16 25	4 25	12 00
Torning, A	190	10	32 50	16 50	16 00
Tomlinson, C A	198	5	16 25	12 25	4 00
Tomlinson, C A	220	10	32 50	26 00	6 50
Taylor, C M	221	10	32 50	27 00	5 50
Tilden, A F	243	30	97 50	40 50	57 00
Vizina, J M	227	10	32 50	26 00	6 50
Wilmot, W	96	5	16 25	1 25	15 00
Wilmot, W	97	5	16 25	1 25	15 00
Wilmot, W	174	10	32 50		32 50
Waters, Saml J	121	20	65 00	54 50	10 50
Waters, Saml J	166	12	30 00	33 00	6 00
Wrede, D	142	5	16 25	10 25	5 00
Wilson, C	161	5	16 25	1 25	15 00
Wood, Charles	196	5	16 25	11 25	5 00
Wilzinski, Saml	214	5	16 25	13 75	2 50
Winter, Sarah	240	5	16 25	13 75	2 50

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at auction, by Olney & Co., at the office of the Company, No. 7 Stevenson Block, San Francisco, Cal., on the 23d day of December, 1865, at 12 o'clock M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

M. G. ELMORE, Secretary.

Office, No. 7 Stevenson Block, corner Montgomery and California streets, San Francisco. dec9

ELECTROTYPE CUTS, ENGRAVINGS, ETC.—Our Job Printing Office is abundantly supplied with elegant engravings, ornaments, and other embellishments to suit the various branches of industry in this State.

Calendars for 1866.—The MINING AND SCIENTIFIC PRESS Job PRINTING OFFICE is prepared to execute every manner of Counting-house Calendars and advertisements for various business men, on short notice and moderate terms.

Mining Notices--Continued.

New Mining Advertisements to be found under another heading.

Chipionena Mining Company, District of Ures, Sonora, Mexico.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 2d day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Buzzolini, D	11	30	$150 00
Buzzolini, D	79	4	20 00
Chevesich, E	22	1	5 00
Cautier, F	10	30	150 00
Ghirardelli, D	23	29	145 00
Ghirardelli, D	72	90	450 00
Cbirardelli, D	75	20	100 00
Howard, G H	15	18	90 00
Howard, G H	45	7	35 00
Mosheimer, J	56	26	126 00
Moshcimer, J	57	28	130 00
Smith, R	82	10	50 00
Teschemacher, H F	14	18	00 00
Teschemacher, H F	44	7	35 00

And in accordance with law, and an order of the Board of Trustees, made on the 2d day of November, 1855, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salesroom of John Middleton & Son, No. 404 Montgomery street, on the 16th day of December, 1855, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

JOHN F. LOHSE, Secretary.

Office, 318 California street, San Francisco, Cal. dec2

Chicago Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of November, 1865, an assessment of two dollars ($2) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 16th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. nov25

Camargo Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment (No. 5) levied on the 21st day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
H H Allen	46	9	$45 00
R W Heath	112	1	5 00
N B Jacobs	85	4	20 00
N B Jacobs & Co	74	7	35 00
A Todd	109	15	75 00
John Wightman	113	1	5 00
W B C Harker	28	6	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 21st day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Jones & Bendixen, auctioneers, at the office of the Company, on the 9th day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. nov25

Chloride Ledge Gold and Silver Mining Company—Location of Mine: Blue Mountain District, Calaveras County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 15th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allen, Doty	16	20	$ 20 00
Agnew, John	20	20	20 00
Banker, H S	39	5	5 00
Bigsby, C B	34	5	5 00
Cooper, Chas	30	5	5 00
Gadsby, E H	31	20	20 00
Creaves, Benj	26	5	5 00
Larkin, G B	4	20	20 00
Schwartz, H	5	20	20 00
Schultze, R	9	50	50 00
Strader, Wm	38	25	25 00
Watson, J T	12	10	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 14th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the salerooms of Maurice Dore & Co., No. 327 Montgomery street, San Francisco, on the 9th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

R. H SMITH, Secretary.

Office, No. 606 Montgomery street, San Francisco. nov25

Goodwin Gold and Silver Mining Company, Simpson Park Mining District, Lander County, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of November, 1865, an assessment of two dollars per share was levied upon the capital stock of said Company, payable on the 11th day of November, 1865, in United States gold and silver coin, to the Secretary, corner of Battery and Washington streets, San Francisco, Cal., or to S. C. BAKER, Austin, State of Nevada.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

E. V. JOICE, Secretary.

Office, corner Battery and Washington streets. nov11

PRINTING FOR THE HOLIDAYS promptly executed in any style to suit tradesmen, at our JOB OFFICE, 505 Clay street.

Eagle Quartz Mining Company.—Location of Mine and Mill, Amador County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 23d day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
F P Cutter	161	16	$11 25
J P Dullp	20	10	7 50
J P Oulip	37	5	3 75
J E Damon	101	184	138 00
S R Harris	137	100	75 00
J S Haskell	80	10	7 50
J S Haskell	35	20	15 00
Isaac Rowell	8	25	18 75
Eli Schell	165	40	30 00

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of John Middletou & Son, 404 Montgomery street, San Francisco, on tha 11th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

JOHN M. BURNETT, Secretary.

Office, 605 Montgomery street, San Francisco. no25

Keokak Gold, Silver and Copper Mining Company, Clayton Mining District, Contra Costa County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 16th day of October, 1865, an assessment of ten (10) cents per share was levied upon the capital stock of said Company, payable on the 18th day of November, 1865, in United States gold and silver coin, to the Secretary, at the office of the Company, 308 and 310 Front street, San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

A. B. WINEGAR, Secretary.

Office, 308 and 310 Front street, San Francisco, Cal. oc21

N. B.—This assessment is re-advertised. nov18

Kimball Ravine Company, Sierra County, California.

NOTICE.—The Annual Meeting of the stockholders of the above Company, for the election of officers for the ensuing year, will be held on the 18th day of December, A. D. 1865, at 3 o'clock, P. M., at the office of the Company, No. 210 Front street, San Francisco.

dec2 H. NIELSON, Secretary.

La Favorita Mining Company, Montezuma District, Sonora, Mexico.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 30th of August and 25th day of October, 1865, the several amounts set opposite the names of the respective shareholders as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Henry Pforr	30	5	$ 5 00
Henry Pforr	31	10	10 00
Henry Pforr	32	20	20 00
Henry Pforr	33	20	20 00
Henry Pforr	34	40	40 00

And in accordance with law, and an order of the Board of Trustees, made on the 25th day of October, 1865, so many shares of each parcal of said stock as may be necessary, will be sold at the salesrooms of Olney & Co., 626 Montgomery street, San Francisco, on Saturday, the 9th day of December, 1865, at the hour of 3 o'clock, P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sala.

E. WASSERMAN, Secretary.

Office, 429 Sacramento street, San Francisco. no25

Leland Gold and Silver Mining Company, San Francisco District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 30th day of November, 1865, an assessment of twenty-five (25) cents per share was levied upon the capital stock of said Company, payable on the 1st day of December, 1865, in United States gold and silver coin, to the Secretary, at his office in San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 15th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary,

Office, Room No. 2 (3d floor), N. E. corner Pine and Montgomery streets. dec2

Lady of the Lake Gold and Silver Mining Company, San Francisco District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of November, 1865, an assessment of twenty-five (25) cents per share was levied upon the capital stock of said Company, payable on the 1st day of December, 1865, in United States gold and silver coin, to the Secretary, at his office in San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, tha 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 15th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of tha sala. By order of the Board of Trustees.

WM. HOLLIS, Secretary.

Office, Room No. 2 (3d floor), N. E. corner Pine and Montgomery streets. dec2

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible.

Monnt Davidson Gold and Silver Mining Company. Location of Works: Virginia District, Storey County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 21 day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	Nn. Shares.	Amount.
Atwill, Jos F	143	5	$5 00
Adsit, L B	3387	35	35 00
Boardman, Thos S	3331	15	15 00
Boardman, Thos S	3406	45	45 00
Bluxome, Isaac Jr	1902	15	15 00
Byxbee, John F	1994	5	5 00
Barton, Mrs N	2005	10	10 00
Bunnell, Geo W	2007	5	5 00
Bunnell, Mrs A W	2000	5	5 00
Bissell, S S	2185	20	20 00
Craig, Wm	1928	1	1 00
Crain6, Wm	3016	20	20 00
Crone, A	3312	20	20 00
Curtis, Lucien	3317	10	10 00
Dorr, C H	14	2	2 00
Dickerson, D E	2101	10	10 00
Dallba, H S	2298	10	10 00
Dean, J T, Ag't	3390	50	50 00
Dean, J T, Ag't	3391	50	50 00
Dean, J T Ag't	3392	10	10 00
Emmonds, Nath'l	3257	25	25 00
Fisher, Cco	705, 976 1-ea	2	2 00
Fisher, Geo	983	3	3 00
Fell, C	1444	2	2 00
Franklin, Ed	3394	10	10 00
Franklin, Ed	3305	20	20 00
Franklin, Ed	3401	20	20 00
Greenwell, Wm E	1729	50	50 00
Gibbons, P	2140	10	10 00
Gibbons, P	2142	8½	8 50
Greenfield, John	2184	20	20 00
Garwood, J S	3238	100	160 00
Haley, B F	1109	5	5 00
Hall, Ed	1529	7	7 00
Hall, Ed	2121	21	21 00
Hyams, Dr L	1887	2	2 00
Hussey, A S	2023	5	5 00
Hickey, H F	3241	3	3 00
Hinchman	2152	25	25 00
Hinchman	2153	25	25 00
Hinchman	2223	25	25 00
Hall, Abio	2238	6	6 00
Hagadorn, A H	3003	25	25 00
Howard, H O	3372	22	22 00
Herbert, H V	3403	598½	598 50
Irelan, Wm Jr	1911	50	50 00
Irelan, Wm Jr	3404	50	50 00
Joseph, J J	2286	18	18 00
Krause, Wm E F	2147	8	8 00
Krause, Wm E F	2150	3	3 00
Krause, Wm E F	2163	12	12 00
Keith, S A	3	25	25 00
Keith, Sam'l D	1885	5	5 00
Keith, Wm H	327	5	5 00
Keith, Wm H	1886	5	5 00
Keith, Wm H	1571	5	5 00
Keith, Wm H	1572	5	5 00
Lissak, A H Jr	2271	10	10 00
Lissak, A H Jr	2273	10	10 00
Luning, N	2234	112½	112 50
Moore, Ellen E	1527	10	10 00
Moore, S W	1583	5	5 00
Moore, S W	1584	5	5 00
Moore, S W	1602	10	10 00
Moore, S W	1661	25	25 00
Minturn, John	3313	50	50 00
Mel, Louis	2158	30	30 00
Mel, Louis	2159	30	30 00
McConaghey, P	3314	25	25 00
Mitchel, Lewis	2035, 2036, 2037 2038, 2039 1-ea	5	5 00
Murphy, D	3341	90	90 00
Neville, Mrs A E	1853	2	2 00
Northam, E F	2099	52	52 00
Northam, E F	2259	65	65 00
Norton, Sam'l	3250	3½	3 50
Osgood, Wm H	2013	50	50 00
Patch, Geo	1929	20	20 00
Patch, Geo	2248	10	10 00
Patch, Geo	2249	10	10 00
Patch, Geo	2250	10	10 00
Pianci, L T	2107	5	5 00
Perry, Jno Jr	3270	12	12 00
Perkins, J H	3398	10	10 00
Perkins, J H	3392	25	25 00
Pioche & Bayerque	3395	5	5 00
Reed, Henry H	1173	10	10 00
Ransom, Mrs A M	1850	5	5 00
Ransom, Miss A J	1851	2	2 00
Rousset, P	2172	38	38 00
Robinson, Sam'l	2040	5	5 00
Schmitt, B L	3292	25	25 00
Smith, Chas A	2244	2	2 00
Stout, A B	2252	15	15 00
Taylor, Oliver	3100	10	10 00
Van Reed, Mrs J H	1850	10	10 00
Wilson, E H	3245	3	3 00
Winship, Edw	3379	100	100 00
Winship, Edw	3380	100	100 00
Winship, Edw	3381	100	100 00
Whitney, Geo O	3287	5	5 00
Whitney, Geo O	3285	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on tha 2d day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Olney & Co, at No. 626 Montgomery street, San Francisco, Cal., on Wednesday, tha 29th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sala.

G. PARDOW, Secretary.

Office, 53 Montgomery Block. dec2

Orleans Quicksilver Mining Company—Location: Lake County, California.

Notice is hereby given, that the Annual Meeting of the stockholders of the Orleans Quicksilver Mining Company, will be held at tha office of J. M. Buffington, No. 10 Government House, corner Sansome and Washington streets, San Francisco, on Saturday, December 30th, 1865, at 3 o'clock, P. M., for the election of Trustees, and such other business as may be prescnted.

CHAS. ROHRLE, President.

San Francisco, Nov. 30, 1865. dec2

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpina county, State of California.

NOTICE.—There are delinqnent upon tha following described stock, on account of assessment levied on the 30th day of October, 1865, the several amounts set opposite tha names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
James Ludlow	not issued	100	$25 00
Ed Mickle	not issued	100	25 00

And in accordance with law, and an order of the Board of Trustees, made on the 30th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at their salesrooms, No. 626 Montgomery street, San Francisco, Cal., on Saturday, the 15th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, S. E. corner Montgomery and Washington streets, San Francisco. dec2

Siempre Viva Silver Mining Company, Zaragora District, Sinaloa, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of December, 1865, an assessment of two dollars and fifty cents ($2.50) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, 318 California street, up stairs.

Any stock upon which said assessment shall remain unpaid on Saturday, the 6th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 20th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOHN F. LOHSE, Secretary.

Office, No. 318 California street (up stairs), San Francisco, California. dec2

Santa Cruz Petroleum Oil Works Company. Location of works: Santa Cruz County, Cal.

NOTICE.—There are delinquent upon tho followiog described Stock, on account of Assessment No. 14, levied on the 23d day of October, 1865, the several amounts set opposita the names of the respective shareholders, as follows:

Names.	No. Certificats.	No. Shares.	Amount.
Blaisdell, Mrs E F	679	21	$ 8 40
Brooks, Edmd	737	50	20 00
Carr, Mrs A L	211	5	2 00
Carr, Mrs A L	212	5	2 00
Carr, Mrs A L	310	1	40
Carr, Mrs A L	571	5	2 00
Campbell, Mrs Cath E	595	100	40 00
Gallagher, F D	740	10	4 00
Hart, Miss Frances M	617	100	40 00
Hardy, Dr B F	636	80	32 00
Ingols, Mrs Marg R	08	1	40
Ingols, Mrs Marg R	60	2	80
Laugdon, Dr Sam'l	173	20	8 00
Langdem, Dr Sam'l	174	20	8 00
Langdon, Dr Sam'l	175	20	8 00
Langdon, Dr Sam'l	176	20	8 00
Laugdon, Dr Sam'l	222	50	20 00
Laugdon, Dr Sam'l	342	11	4 40
Lott, C F	564	100	40 00
Lott, C F	565	100	40 00
McCombe, John	730	6	2 40
McComb, James	739	25	10 00
Morcross, Mrs E J	70	3	1 20
Root, W O	622	50	20 00
Root, W D	033	52	20 80
Shirley, T W	613	100	40 00
Shirley, T W	619	50	20 00
Shirley, T W	620	107	42 80
Shirley, T W	087	50	20 00
Stewart, J M	21	50	20 00
Stewart, J M	200	7	2 80
Sheldon, John P	732	30	12 00
Sheldon, John P	733	200	80 00
Tillinghast, W H	1	30	12 00
Tillinghast, W H	351	4	1 00
Tillinghast, W H	499	50	20 00
Tillinghast, W H	714	16	6 40
Whitney, H M	125	5	2 00
Watermau, D C	188	5	2 00

Aad in accordauca with law and an order of the Board of Trustees, made on the 23d day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Cobb & Sinton, at No. 406 Montgomery street, San Francisco, Cal., on the 14th day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expeases of salo.

R. WEGENER, Secretary.

Office, 415 Montgomery street, San Francisco. no25

Table Mountain Copper Mining Company, Copperopolis, Calaveras County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 1st day of November, 1865, the several amounts set opposita the names of tha respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Beckford, D R	91	3	$ 1 50
Bowman, E P	133	5	2 50
Bowmau, E P	161	8	3 00
Bowman, E P	209	12	6 00
Bowman, E P	212	4	2 00
Bowman, E P	235	3	1 50
Burk, John	171	29	14 50
Buzzolini,	287	5	2 50
Crowell, Geo E	319	8	4 00
Coleman, Wm T	214	25	12 50
Davis, G B	90	10	5 00
Davis, G B	100	4	2 00
Davis, G B	125	11	5 50
Demill, S G	225	25	12 50
Demill, E G	229	11	5 50
Dorland, Thomas	239	50	25 00
Doyle, James R	340	29	14 50
Doyle, James R	342	7	3 50
Doyle, James R	344	10	5 00
Doyle, James R	347	86	43 00
Elmore, M Gaga	285	1	50
Elmore, Mrs Ada S	92	10	5 00
Elmore, John N	287	10	5 00
Geddis, Wm H	33	16	8 00
Geddis, Wm H	34, 35, 36, 37, 38 10-ea	50	25 00
Hnlin, W H	234	50	25 00
Honisberger, L	131	100	50 00
Hale, Calvin H	165	5	2 50
Hale, Calvin H	336	20	10 00
Hinchborn, J E	195	15	7 50
Jackson, J C	155, 176 50-ea	100	50 00
Knowles, C C	232	3	1 50
Linsley, E W	148	10	5 00
Lovell, James M	233	5	2 50
Lovell, James M	343	8	4 00
Minturn, W B	285	2	1 00
Mason, N H A	143	133	66 50
Monagher, Bridget	274	10	5 00
Newby, Richard	210	57	28 50
Newby, Richard	248, 301, 302 20-ea	60	30 00
Newby, Richard	264, 271 50-aa	100	50 00
Newby, Richard	247, 303, 304 305, 307 10-ea	50	25 00
Newby, Richard	306	3	1 50
Peatland, Henry	208	25	12 50
Swett, Daniel	224	15	7 50
Swett, Daniel	225, 245 10-ea	20	10 00
Swett, Daniel	273	5	2 50
Swett, Daniel	322	50	25 00
Van De Water, R J	135	30	15 00
Van De Water, R J	156	4	2 00
Van Vlack, Henry	277	15	7 50
Van Vlack, Henry	259	5	2 50

And in accordance with law and an order of the Board of Trustees, made on the 1st day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., at No. 626 Montgomery street, San Francisco, Cal., on Monday, the 18th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delnquent assessment thereon, together with costs of advertising and expenses of sale.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco. dec2

Segregated Belcher Mining Company, Gold Hill District, Storey County, Nevada.

NOTICE.—There are delinquent upon tho following described stock, on account of assessment levied on the 25th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificata.	No. Shares.	Amount.
Burke, E R	2, 3 100-ea	200	$800 00
Burke, E R	15	10	40 00
Burke, E R	14	3	12 00
Blasdell, H G	43, 44, 45, 46, 47 48, 49, 50 20-ea	160	640 00
Blasdell, H G	51, 52, 53, 54, 55 56, 57, 58 10-ea	80	320 00
Blasdell, H G	50, 00, 01, 62, 63 64, 65, 66, 67, 68 69, 70, 71, 72 73 74 5-ea	80	320 00
Apple, R	18	2,000	8,000 00
Apple, R	81, 87, 89 400-ea	1,200	4,800 00
Apple, R	82	183	732 00
Apple, R	90	320	1,280 00
Harmon, A K P	15	200	800 00
Livingston, F	88	400	1,600 00
Wheeler, C T	20, 21, 23, 23, 24 40-ea	200	800 00
Wheeler, C T	25, 26, 27, 28, 29 30, 31, 32, 33, 34 20-ea	200	800 00

And in accordance with law and an order of the Board of Trustees, made on the 25th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the Salesroom of J. Middletou & Son, 404 Montgomery street, San Fraacisca, on the 9th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

JOHN F. LOHSE, Secretary.

Office, 318 California street, up stairs. no25

United States Gold and Silver Mining Company.—Mine located in Ravenswood and Santa Fe Districts, Lander County, Nevada.

Notice is hereby givea, that at a meeting of the Board of Trustees of said company, held on the 23d day of November, 1865, na assessment of one dollar and five ceats ($1.05) per share was levied upon the capital stock of said company, payable on the 25th day of November, 1865, in United States gold coin, to the Secretary, at his office.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall ba mada before, will be sold on Monday, the 15th day of January, 1866, to pay the delinqnent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

Office, 618 Merchant street, San Francisco, Cal.

Sharcholders who have paid the former assessments, or who hava advanced money to the Company, will be credited for tha same upon this assessment.

de2 T. L. BIBBINS.

Notice.—Tha Annual Meeting of the Stockholders of the UNITED STATES MINING COMPANY, will be held at the Office of tha Company, on Monday, Decemher 25th, 1865, at 3 o'clock, P. M.

J. M. BUFFINGTON, Secretary.

San Fraacisco, November 25th, 1865. no25

United States Mining Company.—Location, Virginia, Storey County, Nevada.

Notice is hereby given, that at a meeting of tho Board of Trustees of said company, held on the 15th day of November, 1865, an assessment of fifty ceats per share was levied on each and every share of the capital stock of said Company, payablo immediately, in gold or silver coin of tha United States, to the Secretary, at his office, or to F. A. MARSTON, Virginia, Nevada.

Any stock upon which said assessment shall remain unpaid on tho 16th day of December, 1865, will be advertised as delinquent, and unless paid, will be sold on Saturday, the 30th day of December, 1865, to pay said delinquent assessment, together with costs of advertising and expeases of sale. By order of the Board of Trustees.

J. M. BUFFINGTON, Secretary.

Office, No. 10 Government House, corner Sansoma and Washingtou streets, San Francisco, Cal. nov18

Wide West Gold and Silver Mining Company, Silver Mountain District, Alpine county, Cal.

Notice is hereby given, that at a meeting of tha Board of Trustees of said Company, held on tha 11th day of November, 1865, an assessment of one dollar ($1) per sharc was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at his office, or to the Superintendent at the mine.

Any stock apon which said assessment shall remain unpaid on Saturday, the 15th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay tha delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOSEPH GREEN, Secretary.

Office, 330 Davis street, corner of Washington street, San Fraacisco. no18

Yaba Gold and Silver Mining Company, Brown's Valley, Yuba County, Cal.

Notice is hereby given, that at a meeting of tha Board of Trustees of said Company, held on tha 15th day of November, 1865, an assessment of two dollars and fifty cents ($2.50) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin to the Secretary, at the office of the Company, No. 210 Pine street, up stairs, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 16th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 30th day of December, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

P. R. RINGSTROM, Secretary.

Office, 210 Pine street.

N. B.—The above assessment is for the purchase of Machinery, nov18

Book Printing should be considered and treated as one of the higher branches of the "Art of Arts," and its execution entrusted only to experienced and intelligent workmen. Strict attention will be given to all orders for BOOK AND PAMPHLET PRINTING entrusted to the Mining and Scientific Press Job Office.

LARGEST VINEYARD IN THE WORD.—It is said that the Buena Vista Vineyard, in Sonoma County, California, is the largest in the world. It consists of 6,000 acres, with 272,000 vines planted previous to 1865, and 700,000 planted or to be planted this year. Last year the yield was 42,500 gallons of still wine, 60,000 gallons of sparkling wine, and 12,500 gallons of brandy. One hundred men are constantly employed, and double that number during the vintage. There are 8,000 fruit trees, and large varieties of grapes.

COLD WEATHER.—San Francisco was visited, during the first of the present week with the coldest weather ever experienced here. On Monday morning, the water in the horse-troughs on the streets was covered with sheets of ice in some instances half an inch thick, and the ground, wherever moisture had accumulated, was covered with hoar frost.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

REMOVAL!

R. WEGENER,

Accountant and Mining Secretary

Has removed to

No. 415 Montgomery Street—west side,

Between Sacramento and California sts.,

6v10 SAN FRANCISCO.

Copper, Lead, Gold, Silver,

Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

THOMAS PRICE,

Agent for Townshend, Wood & Co., Swansea,

No. 406 California Street, San Francisco.

15v10-3m

MARTIN & CO.,

Office, Stevenson House,

Corner California and Montgomery streets (up stairs).

WILL CONTRACT FOR THE

PURCHASE OF COPPER ORES,

Assaying eight per cent. and upwards of Copper to the

We will make advances upon Ores of Copper.
San Francisco, Post Office Box 1259. 22

VALUABLE PATENT RIGHT FOR SALE.

The patent right for the United States of a valuable invention can be secured at a bargain by applying at this office. The article is one of general application throughout civilization.

DEWEY & CO., Publishers.

QUARTZ OPERATOR'S HAND BOOK.

A Book for Every Intelligent Prospector, Shareholder, Miner and Machinist.

ZENAS WHEELER AND P. M. RANDALL, Authors and Publishers.

BOUND IN CLOTH—144 PAGES, DUODECIMO.

THE QUARTZ OPERATOR'S HAND BOOK is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

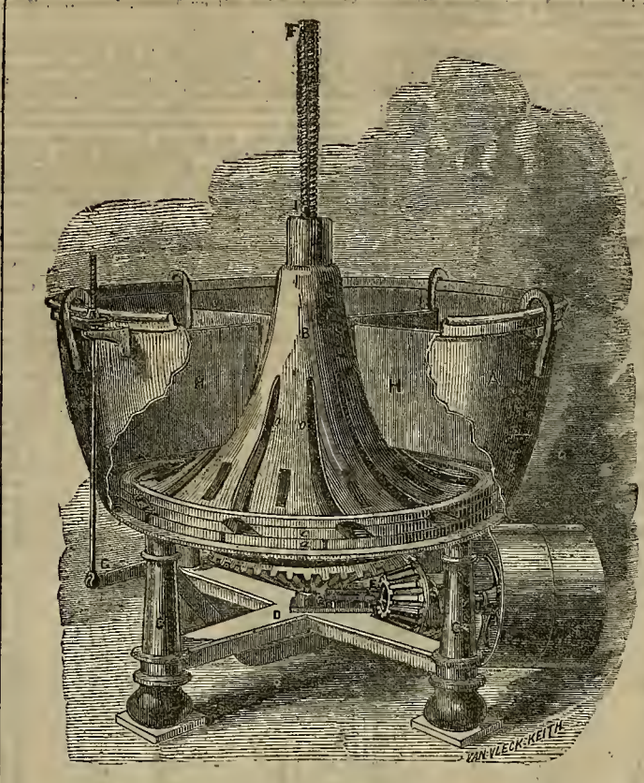
The work also contains an original and highly interesting discussion of the tractory and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs. W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Bolshaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on page 415 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865.

Sold by booksellers generally. Price by mail, postage paid, $1.25. Address "Wheeler & Randall, at the Mining and Scientific Press Office, San Francisco." 2v11



THE EXCELSIOR GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

Union Iron Works and Golden State Iron Works,

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.

EUREKA PATENT BLASTING POWDER,

Price $3.50 Per Keg.

Office, southeast corner Battery and Commercial streets.

Room No. 9, with San Francisco Chemical Works,

CHAS. A. JAMES.....AGENT

For underground blasting in Tunnels, Mines, etc., this Powder possesses very great advantage—on account of it giving out scarcely any smoke after the blast. By using the same quantity in bulk as the gun blasting powder, you produce a much greater effect. 2v11qy

WILLIAM PENROSE,

Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,

Is prepared to buy in any quantity

COPPER, SILVER, GOLD, LEAD

AND OTHER VALUABLE ORES;

Also Lead Bars Containing Gold and Silver.

☞ Full value paid on delivery in this City.☜

Address Lock Box No. 992, P. O., San Francisco. 25v10

CALIFORNIA CLOTH,

CLOTHING MADE FROM

For Wholesale and Retail Trade,

ALSO, CLOTHING MADE TO ORDER,

AT QUINCY HALL,

Nos. 545, 547 and 549 Washington Street,

SAN FRANCISCO, CAL. 19v13m

To Mining Companies.

A GENTLEMAN OF MUCH EXPERIENCE AS A MINING Superintendent, in England, Spain, and on the Pacific coast, and one intimately acquainted with every department of mining, and with nearly every class of mineral, is desirous of securing a position as Superintendent of some mining operation in California or Nevada. The applicant was for four years Superintendent of the New Almaden Quicksilver Mine, in this State. The best of reference given on application at this office.

San Francisco, Oct. 12, 1865 .5v11tf

THE STYLE

—FOR—

Fall and Winter, 1865,

Will be introduced Aug. 26, at

MEUSSDORFFER'S HAT MANUFACTORIES,

Nos. 635 & 637 Commercial st., San Francisco,

No. 125 J st., bet. Fourth & Fifth, Sacramento.

Corner D and Second Streets, Marysville.12v11

WE ARE NOW OFFERING

OUR IMMENSE STOCK

—OF—

Fine Custom Made Clothing

—AND—

Gents' Furnishing Goods

AT PRICES THAT DEFY COMPETITION.

Our Stock of Clothing Consists of

ALL THE LATEST STYLES

BOTH OF MATERIAL AND FINISH.

A Large Assortment of

Trunks, Valises, Carpet Bags, Blankets, Etc.,

AT EXTREMELY LOW PRICES.

J. R. MEAD & CO.,

8v10 Cor. of Washington and Sansome streets.

SAN FRANCISCO CORDAGE MANUFACTORY.

CONSTANTLY ON HAND,

A Large and Complete Assortment

—OF—

MANILA CORDAGE,

FOR MINING PURPOSES.

—ALSO—

WHALE LINE, BALE ROPE, ETC.,

Manufactured from Pure Manila Hemp.

Hoisting Ropes for Deep Shafts,

—ALSO—

Lines for Ferry Boats,

Manufactured to Order.

Office at **TUBBS & CO.'S,**

Nos. 611 and 613 Front street.

Manufactory at the Potrero 14v10

JOHN TAYLOR & CO.,

—IMPORTERS AND DEALERS OF—

ASSAYERS' MATERIALS,

Druggists' & Chemists' Glassware,

Photographic Stock, Etc.

512 and 514 Washington Street,

SAN FRANCISCO.

WE are receiving direct from MESSRS. LADD & OERTLING (London) and BEEKER & SONS (Antwerp, Belgium) their superior

ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

A Full Assortment of DRUGGISTS' GLASSWARE and DRUGGISTS' SUNDRIES, ACIDS and CHEMICALS, constantly on hand.

San Francisco, March 6, 1865. 11v10-tf

CHARLES BERNARD,

MANUFACTURER AND DEALER IN

Family Chartres Coffee,

AND SPICES OF ALL KINDS,

No. 707 Sansome street, cor. Gold, bet. Jackson & Pacific.

First Premium Awarded

BY THE MECHANICS' INSTITUTE,

FOR BEST COFFEE AND SPICES.

The proprietor having introduced steam power in his Manufactory, has now increased facilities to supply the trade and the public in general. All articles from his establishment are guaranteed to be pure and unadulterated. The public are respectfully invited to call and convince themselves. Country orders promptly attended to.

15v11-3m

OIL WELL BORING.

J. SEVENOAKS,

Contractor

For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1229 San Francisco. 2v11

LEHIGH COAL.

200 Tons Large Lump Lehigh Coal

Now on Hand.

I am also in constant receipt of

LEHIGH COAL,

And will be able to supply it always

At the Lowest Market Price.

JAMES R. DOYLE,

20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

A NEW PROCESS.—Mr. Laffin, of Chicago, formerly of powder notoriety, is the inventor of a new process which saves nearly all the gold and silver in the ores. It consists in pulverizing as by present methods, and passing thus reduced *through melted lead.* It is said that ninety-five per cent. of the gold and silver contained can be saved. The process has been patented and will be tested here some time this summer. The question of cost will again come up, and may be the one on which the practicability of the process will depend. So says the Denver (Colorado) *Gazette.*

As flowers never put on their best clothes for Sunday, but wear their spotless raiment and exhale their odor every day, so let your life, free from stain, ever give forth the fragrance of the love of God.

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters' Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Minutie Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

New Volume

— OF THE —

Mining and Scientific Press

Issued every Saturday. Each number contains 16 pages and 64 columns (size of Harper's Weekly).

PUBLISHED BY

DEWEY & CO.,

Patent Agents, Publishers and Job Printers
505 Clay Street, San Francisco.

THE ELEVETTH VOLUME

Of the MINING AND SCIENTIFIC PRESS commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this journal may be anticipated by its numerous and rapidly increasing readers.

We shall continue to devote a large space in our columns to the various and best methods of treating ores and saving gold and other precious metals in every form, furnishing valuable hints to millmen, prospectors, oil-workers and miners generally, not to be found in any other publication.

New machinery, latest inventions and discoveries, and all matters pertaining to the mechanical, manufacturing and industrial resources of the Pacific States, will receive careful attention.

Stock market reports will be published as received from the official records. Our carefully compiled "Mining Shareholders' Directory" will prove a faithful monitor to parties holding stock, and a desirable record for reference to brokers.

Friends pleased with our efforts in the publication of the PRESS can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and News-dealers, acting as our agents, will receive liberal commissions.

☞ BOUND VOLUMES FOR SALE.☜

SUBSCRIPTION IN ADVANCE.

One Year, (two volumes)..... $5.00
Six Months, (one volume)..... 3.00

FOR ADVERTISING

Our terms are very reasonable. MINING COMPANIES are especially favored by our rates, and careful attention is given to the legal publication of MINING NOTICES.

OFFICE—No. 505 Clay street, corner of Sansome.

DEWEY & CO., Publishers.

C. W. M. SMITH .....W. B. EWER .....A. T. DEWEY

Machinery.

MITCHELL'S

COMBINED

FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with GALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.

San Francisco, Aug. 22d, 1865. 10vII.3m

HUNTER'S

PREMIUM

CONCENTRATOR, AMALGAMATOR AND SEPARATOR,

Awarded a Silver Medal at the late Mechanics' Fair.

HUNTER'S CONCENTRATOR CAN BE SEEN IN OPERATION daily at the Novelty Iron Works, Fremont street. Parties wishing to purchase Concentrators will find it to their advantage to examine the above machine before purchasing elsewhere, for the following reasons:

1st. It will work the sands from a 5-stamp battery, and save from 10 to 20 per cent. more sulphurets than any machine built on the Pacific coast.

2d. The Sulphurets are washed clean, containing less than ten per cent. of sand.

3d. The waste free gold and amalgam is amalgamated on the copper plates; no trace of ground mercury and scarcely a trace of metal passes off with the sand.

4th. Its simplicity is a sufficient recommendation for its general use as a Concentrator. The variation of speed in a Quartz Mill does not effect the working of the Machine. The same was demonstrated at the late Mechanics' Fair, when with the greatest IRREGULARITY OF SPEED the best of results were given.

5th. There is no clogging or stopping to clean out the sulphurets and sand; consequently no waste from any inattention on the part of the attendant.

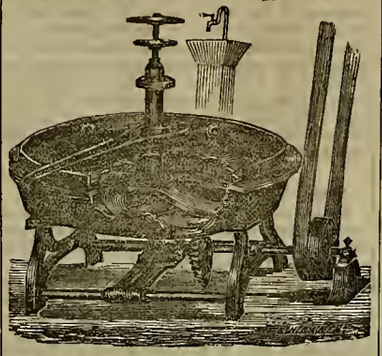
6th. In exhibiting the working of the machine (it is not run empty), all classes of ores and tailings, from 50 pounds and upwards, are concentrated that parties may see fit to test the machine with.

Give it a trial, and satisfaction is guaranteed. All orders and any information required, address

ANDREW HUNTER,
Novelty Iron Works, Fremont st., San Francisco,
15vII-3m Or to E. T. STEEN, Agent.

BAUX & GUIOD'S

Separator & Amalgamator



Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jeffersonian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crail's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Heugh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,
Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8-6df

BLAKE'S

QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA,
WASHOE,
ENGLAND, FRANCE,
— AND —
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,
Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.
4v10

Hepburn & Peterson's

AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos. 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th. [Illustrated in the Mining and Scientific Press, April 9th, 864.]

HEPBURN & PETERSON.
nov8 3m*

HUNT'S PATENT

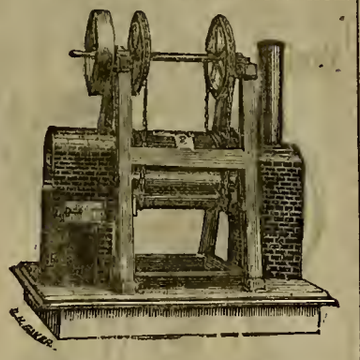
Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,
7v10 28 Second street, San Francisco

The Mechanics' Institute
AWARDED A
PREMIUM SILVER MEDAL
TO BRUCKNER'S
MECHANICAL ROASTING FURNACE.



Parties wishing to erect such Furnaces, are requested to leave their orders with

T. KALLENBERG,
12vII 416 Market street, San Francisco.

HUNT'S

IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN
HORSE POWER
For Sawing Wood.

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,
No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26.3m

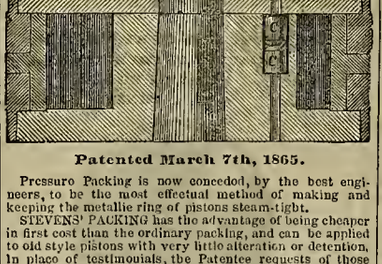
DENIS WHELAN,

Fashionable Boot Maker

REPAIRING NEATLY DONE, AT SHORT NOTICE.

No. 17 Fourth Street,
Near Market street, San Francisco.
15v10-3m*

Stevens' Pressure Packing.



Patented March 7th, 1865.

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

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Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Alameda Railroad, or at the VULCAN IRON WORKS, where they can be seen, at any time, in course of construction.

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12vII-1m E. H. WILSON, Secretary

From Arizona.—The Marysville *Appeal* has seen a letter of late date from Prescott, Arizona, in which the writer says that any one who has the means to take a mill to that place can obtain any terms he may desire, and on the best leads in the country. The writer is well assured that they have rich mines there. All that is required is a little capital in mills, etc., to develop them. There are two mills running at Wickenburg crushing rock from the "Vulture." The first clean-up was made by Tyson & Co., a few weeks since, from a run of thirty tons, when they got $2,700. Chase's mill has not made a clean-up yet. Bowers & Co., have a little two stamp mill, crushing rock from the "Occidental," on Lyon's creek, about twelve miles from Prescott, and are doing well. Things are looking up considerably at present, and the Arizonians begin to think there is a better day near at hand for that country. The Indian difficulties are the chief obstacle to progress and success, and when they are to cease is still a problem.

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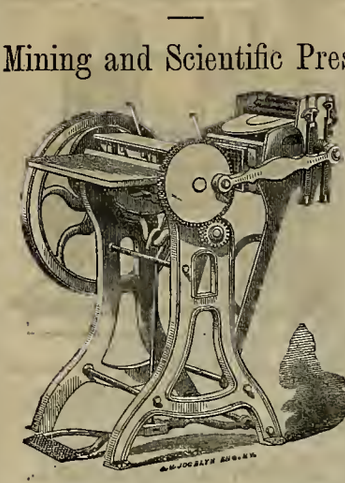

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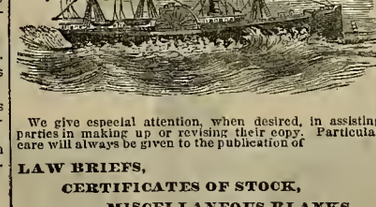

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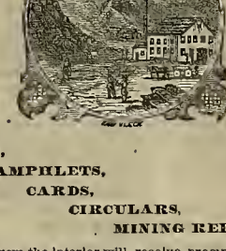

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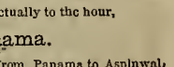

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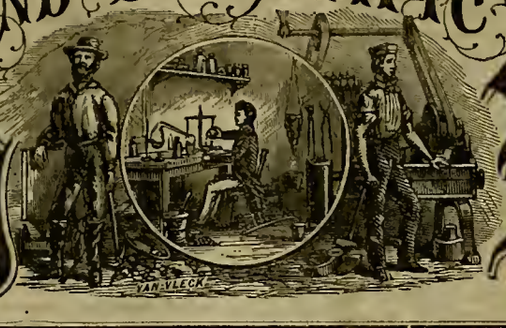

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VOLUME XI. Number 24.

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New Mining and Other Advertisements, Etc.

GUIDE BOOK OF THE PACIFIC.—This is the title of a very neatly printed and elaborately prepared work, published in this city, by Sterling M. Holdridge. The book comprises 200 pages, and contains accurate statistics of almost every class of interest to persons traveling in any part of the United States and Territories west of the Rocky Mountains. The table of contents displays an amount of research and information which could be obtained only at the cost of much labor and expenditure. Full statistics are given of the ocean steamship routes and lines on the entire Pacific coast, tables of distances on the principal routes and lines around the world, interior steam routes in the Pacific States, railroads, express companies, stage lines, etc. It also contains thirteen carefully drawn maps, including all the Pacific States and Territories. The map of Arizona is the most complete and reliable of any yet issued. The maps, although designed merely for illustrating road and river travel, yet contain the location of many points not heretofore laid down on any other maps. Many novel and important features are introduced, which will be readily appreciated by every merchant and traveler into whose hands the book may fall. It is really a valuable hand-book, which should find its way into the possession of every merchant and traveler on the Pacific coast. In order to keep up with the changes of the times, it will be published semi-annually.

INSURANCE COMPANIES AND BANKS AT THE SOUTH.—All the insurance companies, but one, the "Virginia Fire and Mutual," and with three or four exceptions, all the banks which existed at the South, previous to the rebellion, have been ruined by the war, and swept out of existence forever. In their places, companies from the North, organized with Northern capital, are now going in and establishing themselves, to reap the rich harvests that are already ripening in the renewed business which is springing up everywhere in the late revolted States. The world never before presented so rich and large a field for the investment of capital as the South does to-day, and it is being promptly occupied by an energetic, active moneyed power, which will stamp its influence so deeply, so indelibly and so entirely different from all pre existing policies, as to cover up, within a single generation, all past and conflicting institutions.

CORRECTION.—In the notice which we made last week of the remarkable fresh water springs, etc., in the center of an immense salt plain, and erroneously placed the location in Humboldt county, Nevada—we should have said in the Silver Peak mining district, about 120 miles southeast of Aurora.

LATEST FROM THE OIL REGIONS.

The steamer which arrived on Tuesday last brings very encouraging news from the Humboldt county oil wells. The *Journal* of the 7th instant says that Messrs. Noble & Anderson, at Joel's Flat, have struck a fine vein of oil in their well, at a depth of 210 feet; they have filled all the barrels and casks on hand, and are now in search of more. Everybody think they have "struck it" in earnest.

The Oil Creek Well Company has sent for a steam engine and machinery.

The prospects of the Elk Horn Company are better than ever.

The Hawley Farm well has reached the depth of 275 feet, and has good prospects.

The Jeffreys well is 276 feet deep, and the prospects very encouraging.

The Erwin & Davis (Mattole) Company has reached a depth of 250 feet. They are working away with a hearty good will, and from the indications have every reason to hope soon to strike a paying vein of oil.

The Fortuna Well Company have attained a depth of 178 feet with most encouraging prospects.

The Paragon, Davis and others were obtaining flattering indications just previous to the storm. Many companies have suspended operations for the present, some perhaps on account of the weather, and others, no doubt to await the developments of their more energetic neighbors. The utmost confidence appears to be felt with regard to ultimate success in obtaining oil in paying quantities. The *Times* in speaking of the "strike" in the Noble's well, at Joel's Flat, says:

This begins to "pan out" oil of a very superior quality and in quantities sufficient to satisfy any man of moderate expectations. After pumping this well three or four times and exhausting the water, an increased quantity of oil was obtained each time. They had no conveniences at hand, however, to save the oil except three kegs, two boxes and an old tub. These they filled to overflowing at once, and pumped a considerable quantity on the ground, but the supply continuing, they determined to suspend pumping and provide means to save the oil, and they accordingly commenced building a tank out of such materials as they had at hand. As soon as this is completed a better opportunity will be afforded of judging of the capacity of the well.

OIL IN COLUSI.

The Colusi *Sun* of the 2nd inst., says: "The Antelope Valley Petroleum Company have now a steam engine with all the appliances for boring. The engine and the boiler were brought overland from Sacramento, and the other machinery came up on the boat. This company went down over two hundred feet by hand, and the prospects were such as to warrant them in going to an additional expense of five or six thousand dollars for an engine and other machinery. The other companies in that county are all steadily at work and there is not a man of them but is confident of striking oil.

OIL IN LOS ANGELES.

The Los Angeles *News* reports the oil prospects of that vicinity are proving very encouraging. Maj. Strohle, at Cañada de Brea, is making fine progress in boring, with the most encouraging prospect of obtaining a fine stream. We notice that the shipment of crude oil from the San Fernando Petroleum District, is increasing; orders are being filled here for cans and vessels, to the amount of several thousand gallons, to be used by former shippers, in addition to the vessels already in use by them. The oil which has been dipped from the open springs in the San Fernando district, it will be remembered, yielded at the refinery of Messrs. Hayward, Coleman & Co., in this city, forty-five per cent. of illuminating oil, and forty per cent. of lubricating oil, and was sold at the time in its crude state for one dollar per gallon, although it is not worth that much now.

Agates and Diamonds.

The Reese River *Reveille* is informed that about three miles north of Ione, there is an isolated mountain, some five hundred feet high, which is called Agate Mountain. Its entire surface, upon all sides, from summit to base, is covered with agates and concretions, and on digging into the soil they are found like potatoes in a hill. The agates are usually oval and sometimes globular in form, and varying from one to four inches in diameter, and are generally beautifully banded and striped. In the hands of a skillful lapidary they could be fashioned into pleasing ornaments. The various concretions are found in great abundance, and many of them are particularly beautiful. In their sphericity they are sometimes found as perfect as a ball, though generally the spherical shape is quite distorted. They are hollow and usually filled with crystals. On breaking them open, their interior is often found to be irregularly hollow and lined around with a layer of quartz crystals, forming what is termed a geode—a "little crystal grotto." Some of those hollow concretions contain a smaller concretion inside, which rattles when shaken in the hand.

A MINE OF DIAMONDS—PERHAPS.

Appropos to the above we condense the following, for which the Owyhee *Avalanche* is responsible:

Governor Lyons, of Idaho Territory, who has lately returned from the East, recently exhibited to the editor of the *Avalanche*, a diamond about the size of a pea, which he informs the editor was picked up about twenty miles, in a southerly direction from the Snake river ferry, by a man named Sam'l Wilson, who, while prospecting in a gulch in the foothills for gold, had selected *seven* from the gravel as curiosities, not knowing what they were.

Their history is as follows: In May last, while the governor was on the steamer bound to the East, this man Wilson, recognizing him, made himself known, and showed the governor these specimens, not suspecting what they were. The governer expressed the opinion that they were diamonds. On arriving in New York they both went to a jeweller, who pronounced them diamonds and bought one of them, paying therefor $1,000. The governor then made arrangements to meet Wilson on their return to Idaho, when both were to go again to the spot where they were found for further research. Wilson took passage on the unfortunate Brother Jonathan, and was lost, and the governor has now but the above clue as to where the specimens were found. Some of the Idaho folks have got "diamond on the brain," and will probably go in search of the "diamond" mine. Those who knew Wilson, have full faith in his sincerity and truthfulness.

QUERY.—The opinion of experts is solicited as follows: Can vapor, as distillation, be realized without an access of a certain degree of cold? The querist opines that heat, of itself, cannot produce vapor; that is, it cannot produce vapor without the contact or presence of cold; neither can cold produce congelation without the access or presence of a certain degree of heat.

QUERIST.

THE Moses Taylor sailed yesterday, and carried passengers at the following rates: First cabin, $125; second cabin, $75; and steerage, $25.

RICH SPECIMENS.—Mr. John H. Bradley, of Jackson, has shown us a box of specimens, forwarded to him by Mr. John Colehower, from the famous Poor-Man's ledge, near Ruby City, Idaho. Among others we notice the finest specimen of ruby silver with which we have ever met, and other specimens showing native silver and black sulphurets, such as would seem to fully warrant the reports of the extraordinary richness of that lode. The box also contained specimens from the Oro Fino and the Crook & Jennings; also, some fine specimens of stream tin from the mines of that metal lately discovered in that region. These ore specimens are to be deposited in the Odd Fellows' mineral cabinet, in this city.

GOLD FROM AN OIL WELL.—No small degree of excitement has recently been created in Western Pennsylvania, by the fact that gold bearing quartz has been struck in several oil wells, which were recently being sunk near Meadow Run, in Greene county. Several very rich specimens of quartz from one of the wells, brought up from the depth of 550 feet, have been exhibited to the editor of the Pittsburgh *Commercial*, and a barrel of borings from the same well have been sent to the U. S. Mint at Philadelphia, for scientific examination and assay. The same vein of quartz has been struck in two or three other neighboring wells; and much excitement has been produced in the neighborhood, owners of land there holding them at fabulous prices, much in advance of their value as oil lands.

MECHANICS' FAIR REPORTS.—The official reports of the Fifth Industrial Exhibition of the Mechanics' Institute are now in press, and will shortly issue. The work will embrace the Opening Address of Hon. F. M. Pixley, the Rules of Exhibition, an Alphabetical Catalogue of Articles Exhibited, Art Gallery Catalogue, reports of the Executive Committee, Treasurer and Examining Committees. It will doubtless form a neat and valuable work. We shall continue to publish portions of the most important reports in our columns, from week to week.

TRIAL TRIP OF THE STEAMBOAT CAPITAL.—The new steamer Capital made her engineers' trial trip on Thursday, and performed admirably. She is a splendid boat, equal in her fittings and furniture to any in the world, but not so spacious as some on the Hudson river. She is one-third larger than the Chrysopolis.

STATE NORMAL SCHOOL.—The closing exercises of the State Normal School will be held in Lincoln Hall to-day, commencing at twelve o'clock M., and continuing until four o'clock P. M. They will consist of reading, original compositions, valedictory, calisthenics, free gymnastics, and exercises of the class from the Model School, with an address to the graduating class presentation of diplomas, etc. The public are requested to be present.

THE call for the Miners' Convention to be held at Sacramento on the 17th of January next, the day and place suggested by us, appears to meet with the universal approbation of the press everywhere, and we doubt not it will be responded to by a large and full assemblage of the miners from all parts of the State.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

Mining in the Pacific States, etc., Past, Present and Prospective.

BY PROFESSOR ROWLANDSON, F. G. S. L.

Independent of many other reasons which could be adduced, the advent of a Mining Convention would be a sufficient one for reviewing, at the present moment, the past and present aspect of mining affairs on this coast, with a view towards a prospective improvement, especially as no inconsiderable amount of the mismanagement hitherto pursued may fairly be attributed to a general misconception on the part of the public respecting mining resources; exaggerated and mistaken ideas having prevailed, which even in California have not yet been fully sobered down by the existing adverse aspect of affairs—an adversity produced in the most noted and remunerative mines on the Comstock lead, more through the error alluded to, than from culpable and willful mismanagement. That a not inconsiderable amount of extravagance has prevailed, will, perhaps, be conceded without a dissentient voice being heard against the charge. The extravagance alluded to, however, chiefly originated in the inflated notions which prevailed respecting the extraordinary rich quality and inexhaustible quantity of silver ores attainable, which it was erroneously and generally supposed would increase in value as well as quantity, in proportion as the mine was developed in depth, a delusion still harped upon, and far from being generally dissipated, notwithstanding the incontrovertible evidence of the emphatic fact, patent to all, that after the rich superficial bonanzas had been pierced on the Comstock lead, every subsequent fifty feet penetrated exhibited a slight but sensible depreciation in the value of the ore obtained at every successive advance in depth; not averaging in value, at the present time, more than fifty dollars per ton at an average depth of probably not more than 300 feet. This state of affairs called forth, a short time ago, the following comments in the commercial article of the *Alta California:*

"The singular position of the mining stocks to which we recently alluded is not generally borne in mind. It is that the value of the property is not one-fourth what it was some time since, notwithstanding that the product of gold is quite as large. Thus, the market value of all the mines which compose the Comstock lode was, two years since, $20,000,000. Since then a great accumulation of property of various kinds has taken place, and the yield of metal is as large as ever, while the value of the stock has fallen three-quarters. Or thus:

	Stocks. Market Value.	Nevada Bullion Mined.
1863	$20,000,000	$12,486,233—year.
1865, Oct. 2	11,000,000	10,000,000—9 months.
1863, Nov. 21	5,000,000	11,500,000—11½ mos.

This presents a startling result, and requires the earnest attention of stockholders and capitalists. Why was it that in 1863 the market value of the lode was nearly double the annual product, while at this moment it is only half the product? Why is it that the same product now involves assessments, while in 1863 it evolved large dividends? There is certainly room here for investigation. The blight of mismanagement has chilled public confidence. But surely there are active and enterprising capitalists enough to make that productive property pay some profit to long-suffering stockholders."

The "singular position" here alluded to is easily accounted for, by the fact that ores, as a general rule, decrease in value, under certain limitations, proportionately as they are obtained in depth; while the expenses of extraction increase, the cost of reduction remains the same. The existing state of things, as regards Washoe mining, has by no means taken me by surprise; on the contrary, I publicly indicated its probability some years ago, and anticipated their occurrence anterior to this; which would have been the case but for two circumstances—namely: First, that the superficial bonanzas (rich places or pockets in the mines) on the Comstock lead proved rich in quality, and great in quantity beyond all reasonable anticipation, based on experience; and, Secondly, when the value of the ore per ton began to materially depreciate, the gross yield of bullion was made up by extracting, in the course of a few months, an amount of ore which ought to have been spread over two or seven years. In this way dividends were kept up, whilst the mines were being rapidly ruined. Had the chief mines only extracted ore adequate to the supply of their own mills, several of the most noted mines at Washoe would, at the present moment, have had their shares quoted in the market at far higher rates than those at which they are now selling.

In order to afford the reader some idea of the magnitude of the interests involved, I subjoin the following statement of

THE COMSTOCK LODE.

Floyd Frizell, County Assessor of Storey county, has made a report on the resources of that county. He gives the following statistics for the first three quarters of 1865:

Whole number of tons worked, paying over $20 per ton	$ 257,728 00
Gross yield from same	9,316,093.54
Average yield per ton	36 14
Whole number of tons of ore sold	18,577.00
Amount received from sale of same	123,322.06
Average price per ton	6 63
Gross yield from ores sold	123,322 06
Whole number of tons shipped out of the State	6
Yield per ton	$ 500
Gross yield	3,000

In addition to the general returns given above, it may be well to add an individual instance, such as is quoted by the Savage company, as collated from the general report of July last, and other published sources, from which it will be gathered, that by far the larger proportion of the ore raised is only worth about forty dollars per ton; probably the quantity worth this and lower rates being more than as one hundred to one, as compared with all obtained above that value at the present moment:

Ores.	Tons.	Yield per ton.	Total yield.
Ore, 1st class	1,941	$119.92	$232,764 72
Ore, 2d class	49 303	41.00	2,021,423 00
Ore, 3d class	199	14 94	2,973.06
Totals	51,443	43,81	$2,257,160.78
Cost of mining	$10 22	$531,946	
Cost of reduction	21.76	1,115,000	
Total cost	$32.00		$1,646.340.00

The mere cost of mining and reduction was $32 per ton, and the yield $43.75 per ton, which left $520,000 to meet all other expenses—office, legal, etc. Since then the ore has been reported to yield from $37 to $40 per ton, which would give $7 to $8 profit if there had been no increase of expense. The quarterly returns of the Assessors of Nevada give the quantity mined at 6,075 tons, averaging $39.81. The receipts were reported as follows:

	Yield.	Value.	Debt.
For July	$.2@45	$67,200	$150,000
For August	32@40	80,000	
For September	@40	90,500	150,000
For October	@39	137,000	271,000
Total		$380,700	

On the receipts last year, when the average yield was nearly $44, eighty per cent. was expended for mining and reduction. The average yield reported since then has been only $40, and was all sunk, with $80,000 amount in addition, up to last month, when the debt was given at $271,000, including the Minnesota mill.

In proof of the statement made by me years ago, and now emphatically repeated, that in silver mines, after passing through the uppermost bonanzas, the ore sensibly decreases in value, may be adduced the returns from the following mines for the first and last quarters of the current year:

	MARCH QUARTER. Tons Ore.	Avg. Yield.	Gross Value.	SEPT QUARTER. Tons Ore.	Avg. Yield.	Gross Value.
Gould & Curry	9,041	$52 78	$477,183	12 289	$34 45	$423,326
Savage	14,480	42 06	608,319	6,695	39 81	266,544
Chollar	11,000	40 10	440,000	4,463	36 43	162,619
Potosi	9,088	33 90	308,120	2,587	40 09	103,721
Ophir	2,265	25 48	57,712	226	25 23	5,703
Mexican	60	300 00	18,012	3,653	26 23	96,279
Yellow Jacket	10,201	37 50	720,107	13,150	38 24	504,213
Belcher	4,540½	69 05	314,190	7,801	22 87	180,744
Crown Point	1,043	34 81	36,334	1,267	33 04	44,404
Imperial	6,397	31 47	201,334	7,189	46 70	335,759
Empire	3,412	34 94	119,208	4,130	25 00	103,250
Uncle Sam	150	30 72	4,608	.....	.....	.....
Total	80,677	40 97	3,304,964	62,550	35 12	2,226,562

It will be observed that a few mines in the above list exhibit a slight increase in the value of the ore; with respect to which it may be remarked that it will be found generally in such cases that the superior and richer streaks of ore had not yet become exhausted, and also that the bulk of the ores extracted was from inconsiderable depths. In the Gould & Curry, however, it will be remarked that the decline in value amounts to nearly thirty per cent., and although more than one-third more weight was raised in the last, in place of the first quarter, yet that greater quantity was insufficient to replace the loss occasioned by the decadence in quality; the lesser quantity during the first quarter realizing more by $53,000. The reader is requested to bear all these facts in remembrance, as they will hereafter be commented on more at length, under other heads. A statistical synopsis was, however, required to illustrate what will follow. The next incident which I shall allude to is—

THE VICIOUS CONSTITUTION OF MINING CORPORATIONS.

I am far from attributing this defect to design. It has risen, in most instances, from undue hasts and deficiency of knowledge as to what was required, in order the more perfectly to guard the interests of stockholders from imposition. The defects alluded to have in some instances led to irregularities. Perhaps frauds would be the more fitting term where dividends have been declared on borrowed money, and assessments made immediately afterwards to repay the loan; or the still more frequent practice of declaring dividends whilst the mine was more than the like amount in debt. Such malpractices are so glaringly unjust, and have prevailed so extensively, as to call from the Governor of this State some marked observations respecting the expediency of enacting a law to prevent, in future, such practices, and also recommending that each incorporated mining company shall be compelled to make a statement of its affairs, at least once in six months. [See extracts from Governor's Message in another column.]

I am not so Utopian as to believe that any law can be made so perfect as to protect the pockets of weak and credulous people prone to excitement from the smart practices of designing men; the history of bubble manias, from the celebrated South Sea scheme, down to the present time, is a proof of its impossibility. Much, however, may be done to secure the general public from the effects of the more flagrant malpractices, which have so frequently been put into operation; and as some legislation is probable, in order to assist, as much as possible the efficiency of any future law, I propose drawing the attention of those interested in mining to the English regulations under

THE CORNISH COST-BOOK SYSTEM.

I have termed this system "Cornish," because it undoubtedly first arose and was recognized under the Stannaries Court.* So equitable, however, were its principles, that it gradually became adopted in all mining districts throughout England, in connection with copper, lead and tin mines. It always has been and still is, a matter of doubt whether the limited liability of shareholders, acquired under the protection of the Cost Book system, could be maintained outside of the Stannaries jurisdiction. So equitable, however, was its principles found to be, that the English judges (one of the most immovable class of men in existence, and ever opposed to innovation), at first winked at and then accepted it as an item of general common law; perhaps the more readily in consequence of the monstrous absurdity which existed previous to the passage, within the last ten years, of the limited liability law; prior to which any shareholder in any joint stock company, unless it was one incorporated by Royal Charter or Act of Parliament, was liable to the whole of its debts, down to his last pound and last acre.

The title of this system took its origin from the fact that the laws and by-laws of the company were written in the Cost Book, and signed by all the adventurers. In it, also, is recorded all the proceedings and resolutions occurring at their periodical meetings, which at first were held monthly, afterwards, in many cases, at intervals of two months, and latterly, since very large companies have been formed, once in three months. The last term is one which I should recommend for legislative adoption here, as the longest time which ought to be allowed, without giving the shareholders an opportunity of expressing their assent or dissent to the past, and also their concurrence in the future management of the company. It is quite probable that originally the accounts of the company were kept in the Cost Book, along with the other proceedings; the former, however, are now, and necessarily so, in large companies, kept in a separate sett of books, similar to those used in mercantile affairs.

THE GENERAL PRINCIPLES OF THE COST BOOK SYSTEM

Are, that the liability of every adventurer is limited to the extent of his share; for, by applying to the purser to ascertain his share of the debts and liabilities of the concern, and on paying the same, he can at any moment be relieved from further pecuniary liability, and have his name erased from the Cost Book—forfeiting, of course, his share in the concern, which then becomes the joint property of the remaining stockholders. The affairs of the company are conducted under the management of a purser, whose business it is to pay and receive moneys, and assist in the general management of the mine—the operative departments being under the care of over and underground captains. It is the duty of the purser to present, at the periodical meetings of the adventurers, a correct balance-sheet, containing the disbursements and receipts of the mine during the interval which has elapsed from the last meeting, *and also an estimate of the probable receipts and disbursements which may be anticipated in the interval which will occur prior to the next periodical assemblage of the adventurers.* When the receipts considerably exceed the disbursements, as is the case with prosperous mines tolerably well opened out, the shareholders present declare a dividend out of the surplus; in the opposite case, as will occur with mines only commencing operations, the shareholders levy an assessment sufficient to meet the estimated outlay. It is held, also, that any extraordinary outlay, except when arising from some imminent necessity, over and above that directed at the periodical meetings of the shareholders, is executed at the risk and cost of the purser.

Enact a similar law, and for "purser" insert the word "trustees," and a remedy will at once be obtained for the major part of the grievances complained of in California. The appointment of officers, the fixing of salaries, etc., etc., are all settled at such general meetings. Extraordinary outlays, such as purchasing new engines, etc., are decided upon in the same manner, so that the purser, trustees, directors, or by whatever other name the executive officer or officers may be termed, have little responsibility, other than that imposed in seeing that the funds of the company are fittingly employed.

A glance at the chief points in the above sketch, must satisfy any business man what an effectual guard the system proposed must exert against many of the improper practices so generally complained of, such as "freezing out," etc., excepting in consequence of the inertness and inattention of the bulk of the shareholders, in which case they have only themselves to blame.

I may here be permitted to remark, that not a little of the present adverse condition of several of the most noted Washoe mines, may be attributed quite as much to the apathy of stockholders, as to the misconduct of those intrusted with the management of their affairs. So long as $125, $100, or $75 per month per per foot was being disbursed in dividends, no complaints were made or questions asked; and this, too, notwithstanding it was quite apparent that from the manner in which these amounts were realized, the respective mines were being ruined in consequence of this exhaustive process, as will be explained more fully hereafter. Many of the points above commented upon, could be adopted without any legislative enactment; that which is inserted in italics is particularly recommended to attention.

A NOTICEABLE FACT.

It may perhaps prove an interesting item to many of your readers, to allude to the apparent oddity frequently observed in the number of shares into which Cornish mines are frequently seen to be subdivided, which, within my recollection, have run from 128 to 256, 512, 1,024, 2048, to 4,096. This custom has arisen from the divisibility of these numbers into lesser ones, without fractional remainders. I have long thought that originally the number of shares adopted was *sixteen*, a number which is still very generally employed in Wales, and are locally termed ounces. The division of the avoirdupois pound into the same number, and the Indian rupee into sixteen *anas*, have most probably been adopted for similar reasons; namely, the advantage of subdivision into half, quarters, etc., and their subdivision down to one, without giving origin to any fractional remainder—an advantage incalculably great amongst a rude people, unacquainted with the more recondite points of arithmetic.

[To be Continued.]

*Courts connected with the Duchy of Cornwall, whose business related principally to regulating the mining and smelting of tin. These courts claimed jurisdiction not only over Cornwall, but also over a large part of the adjoining county of Devon.

GOLD YIELD OF OREGON.—The Dalle *Mountaineer* gives the following table of the estimated annual product of gold and silver on the Columbia and its tributaries:

Product of John Day Mines	$1,500,000
" Warren's Diggings	750 000
" Elk City	250,000
" Florence	200,000
" Clearwater Station	200,000
" Oro Fino	600,000
" Bars of Salmon, Snake and Clearwater	300,000
" Clark's Creek and M. Basin	150,000
" Colville, Pen d'Oreille & Kootenai	1,000,000
" The Montana trade	1,000,000
" Auburn	500,000
Total	$6,950,000

The *Mountaineer* remarks upon this, that these very considerable sums are the product of districts which only need population to indefinitely increase the yield of gold and silver.

THE waters of the Seine, which run through Paris, in consequence of the continued dry weather, have now fallen to the lowest possible point. Hundreds of men are engaged in exploring the bed of the river, where exposed, with the view of finding trinkets, kitchen utensils, metal, or other objects.

Useful Information.

The Philosophy of Sleep.

NUMBER FIVE.

QUANTITY OF SLEEP.

The quantity of sleep required by grown-up people ranges between four and nine hours. This has partly to do with peculiarity of constitution. With some the mind and body work quietly and without irritability; others, going through the same round of business and amusement, are more exhausted; the latter require longer sleep. But use has much to do with this, as with other functions; and many suppose a much longer period of repose necessary to them than their health actually requires.

Too much sleep is relaxing. The best rule, for those who are in health and sleep well, is to rise after their first sleep,—when one feels refreshed, and can rise at once with alacrity. Upon indulging in a second sleep, a free perspiration often ensues, and one wakes relaxed, and heavy from sleep, and exhausted.

Women require more sleep than men; those of the nervous and sanguine temperaments more than the phlegmatic and bilious. The necessary quantity of sleep for adults varies from four to nine hours; from seven to eight is the want of the majority. Persons under training sleep from eight to ten hours.

Those who sleep nine or ten hours from indolence, probably sleep less concentratedly, and have not the same intensity of repose which those have, who, sleeping only when it is necessary, drop sound asleep at once.

Infants, for the first month, pass almost their whole time in sleep; or they alternately take nourishment and repose. The quantity of nourishment necessary for their growth fatigues them, and they sleep to recruit their digestive powers. It is the same with those who are recovering from exhausting illness. They often require the same quantity of sleep, the same light and frequent meals. Till the age of three years, children require sleep during the day, and pass half of their time in sleep. The period of sleep is then to be gradually reduced; a child at seven should not sleep more than nine hours. With weakly children, it is important to bear in mind the exhausting character of more prolonged, or, as it really is, renewed sleep. They should rise early; and if more sleep is necessary for their strength, they may lie down and take repose for a short period during the day.

Children should never be wakened suddenly; their nervous system, tremblingly sensitive, is liable to receive injury from the lightest causes. Great care should be taken to exclude from, or to prevent arising in, the minds of children, those superstitious fears, and that terror of the dark, which they are so disposed to full into.

When age begins, the quantity of sound sleep lessens. In extreme age the tendency to longer sleep returns, and part of the day is passed in somnolency, the more necessary, that the rest at night is frequently broken.

The celebrated De Moivre slept twenty hours out of the twenty-four, and Thomas Parr latterly slept away the greater part of his existence.

Dr. Rush observes of the wakefulness of old people,—"Such is the excitability of the system in the first stages of old age, that there is no pain so light, no anxiety so trifling, and no sound so small, as not to produce wakefulness in old people. It is owing to their imperfect sleep that they are sometimes as unconscious of the moment of their passing from a sleeping to a waking state, as young and middle-aged people are of the moment in which they pass from a waking to a sleeping state. Hence, we so often hear them complain of passing sleepless nights. This, no doubt, frequently is the case; but I am satisfied, from the result of an inquiry made upon this subject, that they often sleep without knowing it, and that their complaints in the morning, of the want of sleep, arise from ignorance, without the least intention to deceive."

Dreaming is universal among old people. This recollection of their dreams has more or less to do with their imperfect sleep.

PERIOD FOR SLEEP.

It is unnecessary seriously to argue that the night is the proper time for repose in temperate climates, for no one will deny that we must exist alternately in waking and sleeping, or will doubt that day is the proper time for the former. Our eyes are formed to use by day; Nature, in her brilliancy of coloring, can be seen then only; and the direct action upon the skin, of the light and heat of the sun, is necessary to perfect health? But we have still a choice to make. For in the winter there is more darkness, in the summer less, than the necessary period of repose demands. Are we to borrow hours of waking from the evening or the morning of the long winter's night? The common sense of the world has decided that the latter is preferable.

Those who are engaged in business are, through this habit, beforehand with the day; nothing need then be hurried; the offices of the day may be well thought over, and every necessary arrangement planned. Nor is there any better time, if one has superfluous leisure, for literary pursuits, than the early morning hours. It is indeed too much the custom, and sometimes hardly avoidable, to throw one's studies late into the night, when there is no interruption, and there happens to be spare time. This practice, however, forms a most injurious combination with a life of business, as it destroys sleep, that is so needed. The mind, instead of wholesomely tiring towards eleven, is wakened up, stimulated afresh by its own exertions, and hour after hour glides by; and when at length one's couch is sought, the busy thoughts cannot detach themselves from our pursuits, the mind cannot be put out of gear. One whose time is his own, may, if he pleases it, convert night into day, day into night; and if during some part of the day he takes wholesome exercise in the open air, and his diet is moderate, one cannot say that his health will necessarily suffer by this substitution of an artificial for the natural period; but the probability is, that the habits of life which would co-exist with such indulgence would be irregular, and that therefore it would be indirectly more injurious. One who combines with late hours of study habits of active business in the day, will certainly, whatever his original strength, find both his health and mental powers easily impaired.

[To be Continued.]

Rapid Desulphurization---Scientific Experiment.

The Monitor *Gazette*, of the 2d instant published in the town of Monitor, Alpine county, in this State, is responsible for the following:

We witnessed one day this week the successful application of Arnold's new process for disintegrating quartz rock. The quartz taken from the newly opened lode of the Monitor G. M. Co. is about as hard a quartz as is ever found; so hard that four well tempered drills were required to put down a ten inch hole for blasting, and a good deal of beating with sledges to break it into handling shape. A solid lump of this, of about twenty pounds weight was placed in a common fire-place and brought to red heat, and then immersed in Arnold's mixture—a liquid preparation wherein lies the secret. A terrible commotion ensued, which continued until the liquid had entirely penetrated the lump, setting free the gases therein contained which filled the room like a cloud, and crumbling the rock into more than a dozen pieces, any one of which, after the ebullition ceased, showing that every part of the rock had been penetrated—could be crushed by the heel to fine sand. We consider this a fair test of the disintegrating power of the process; nothing could be more perfect, and for this alone the discovery is invaluable, as the cost of reducing to a fineness necessary for amalgamation is greatly reduced, the first cost of the machinery necessary to produce certain results being ten-fold less, and the amount which may be accomplished by any given works increased to the same ratio. It is claimed however that disintegration is the least of the merits of this process, that it does and will desulphurize and destroy all base metals in any ores, rendering those of the most obstinate character tractable and easy of amalgamation by the simplest means. We shall pursue this subject farther, and not only as to the last claimed power, but in regard to the cost of the whole process which it is claimed does not exceed here over two dollars per ton.

SINGULAR PHENOMENA.—Quite an interesting and singular class of phenomena recently occurred at an oil well, near the mouth of Dunkan Creek, on the Monongahela, which is related by a correspondent of the Pittsburg *Oil News*, as follows:

The Coal Bank Well, No. 4, took another fit on last Friday evening when I was present. It forced the water and stones at least two hundred feet above the top of the derrick for at least forty minutes, throwing out stones, that would weigh two pounds, a sample of which I will show you when I come home. The well is all the time flowing in the conductor about two feet high, and it seems that those violent emissions occur about once a week; as this is the third one since the well has been sunk, and all of them occurred on Friday. I have quite a number of specimens of rock and soap stone that has been thrown out. The shisve timbers on top of the derrick are very much torn and splintered, in fact so much so that they are unfit for use again, all from the effects of the stones thrown out striking them.

THE GOVERNOR'S MESSAGE ON THE MINING INTEREST.

Governor Low sent in his first biennial message to the Legislature on Thursday last, an examination of which shows that the various State institutions, and the affairs of the State generally, are in a hopeful condition.

We give below the Governor's remarks on the mining interest of the State, the progress of the State Geological Survey, and the necessity for action by the present Legislature to secure the benefit of the Act of Congress donating to the State 150,000 acres of land for the establishment of an agricultural college. The Governor very properly suggests that, although the Act of Congress requires that agriculture shall be the chief science taught at the institution which may be established on the Land Fund donated, it does not preclude the the union with agriculture of any other of the useful sciences. We append so much of the message as refers to these matters:

MINES AND MINING.

Since the last session of the Legislature, the question of taxing the products of the mines, and the sale of mineral lands, have assumed importance; and the action of Congress in regard to the former has caused considerable uneasiness in the mining portions of this State, as well as in our neighboring States and Territories. Fortunately, the earnest and well-timed protest of our delegation in Congress caused such a modification of the tax that but little complaint has since been made. Since the last adjournment of Congress, several of its distinguished members have visited the mineral regions of Colorado, Utah, Montana, Idaho, Oregon, Nevada, and California. I anticipate great good as the result of their visit. They will return to their places in Congress fully convinced, I think, that the present plan of working the mines is the best, and that it would be equally unwise to sell the mineral lands, or to diminish the production of the mines by imposing onerous taxes upon them. The information they can and will impart, considered, as it must be, free from prejudice or interest, together with the efforts of the delegation in Congress from this coast, will be likely to set at rest some of the projects that have been brought forward in Congress, which, if enacted into laws, would be detrimental if not ruinous to mining interests.

The development of gold, copper, and other mines in California, has received a marked impetus during the present year. The opening, in various portions of the State, of vast numbers of rich and productive quartz ledges, gives assurance that in the "placer diggings" we were but at the threshold of our mineral discoveries; and affords ground for the belief that we are entering upon a field that will be as permanent as it is productive.

In this connection it is a source of regret to observe that a check has been given to mining investments in Nevada. The interests of both States are so nearly allied that the causes which injure one must sooner or later affect the other. In view of this, it may be well to ascertain, if possible, the influences that have induced this sudden depression in the value of mining property in Nevada, that we may ascertain whether any portion of this loss has resulted from a want of restrictions and penalties in the incorporation law of this State, under and by virtue of which many of those companies were formed.

The management of the mines in Nevada has been a source of discussion and animadversion, both by the people and the press. What proportion of the losses has been caused by the recklessness, extravagance, deception, and fraud of the officers and agents of incorporated mining companies, I have no means of ascertaining. If the representations of California capitalists, whose losses in this connection may be estimated by millions, are to be relied upon, no small share of the decline in values may be traced to these causes.

While the spirit and advancement of the age require that laws shall be enacted providing for the association of capital in the form of corporations, it is the duty of the law-making power to insert such checks and safeguards in these enactments as will protect the stockholders, as well as the public who do business with them, from losses occasioned by the dishonest practices of agents and officers. With this view, I would recommend that the statutes of this State providing for the formation of corporations for mining purposes be revised, and so amended as to provide for the infliction of severe penalties on trustees and officers of companies who shall borrow money with which to pay dividends, or who shall misrepresent the actual condition of a corporation of which they may be agents or managers. Acts committed by officers of a company, for the purpose of deceiving the stockholders of the public as to the value of property belonging to such institution, either by the payment of dividends that have not been earned, or withholding dividends that have been earned, or similar acts, should be declared felonies, and punished as such.

I would also suggest the advisability of compelling a published statement to be made of the actual condition of each company, at least semi-annually.

GEOLOGICAL SURVEY.

During the past two years, such progress has been made in geological explorations of the State as the limited appropriations would admit of. Full particulars relative to the survey will be gathered from the report of the State Geologist, herewith submitted. The Act of April 4th, 1864, provided for the publication of a report "in the form of a geological, botanical, and zoological history of the State."

The plan of publication adopted by Professor Whitney calls for the following volumes:

No. 1—Physical Geography;
Nos. 2 and 3—General Geology;
Nos. 4 and 5—Paleontology;
Nos. 6 and 7—Economical Geology, Mining, and Metallurgy;
No. 8—Botany;
Nos. 9, 10, 11 and 12—Zoology.
No. 13—Maps, Sections, and Plates.

Of these, one volume of paleontology is published; another—the first on geology—is now finished, and on the way hither from New York, and considerable progress has been made in the preparation of some of the other volumes. An accurate map has been drawn of all the central portion of the State, which will be extended as the explorations progress.

I trust the Legislature will carefully consider the matter of the geological survey, and give to it the aid which its importance justifies. Let no hasty action be taken which will be repented of in future. It is a work which will amply repay the State for the expenditure, viewed in a pecuniary light. In addition to this consideration, the result of these explorations and investigations will prove a valuable acquisition to science, which, in its explanation of and research into the laws of nature, does so much to develop all branches of material progress.

AGRICULTURAL COLLEGE.

I desire to call your earnest attention to the Act of Congress donating to this State 150,000 acres of land for the establishment of an Agricultural College. To secure this munificent grant, it becomes necessary that the required steps be taken by the present Legislature, else it will be forfeited by the expiration of the five years in which the State must act affirmatively. Should the national endowment be lost to the children of our State by reason of our neglect, the merited censure of coming generations would be cast upon the memory of those whose duty it is to act at this time.

The Act of Congress contemplates that agriculture s. all be the leading science taught, yet it does not bar the introduction of all branches of learning; and I would recommend that provision be made for every scientific profession.

When we glance at the wide and varied character of the already discovered minerals in our State, we can but admit the necessity of a more general diffusion of knowledge of geology and civil engineering among our people; nor least among our educational wants in a school of agricultural chemistry.

By reason of a peculiarity of climate, our agriculture must be conducted on entirely different principles from that of most agricultural countries. In the Atlantic States, agriculture is an unvarying routine, while with us it is a labor admitting of varied experiments involving scientific investigation. Among the agricultural industries destined to assume the highest importance among our people, may be mentioned vine and silk culture, of which we possess but a superficial knowledge. Each of these branches of remunerative and pleasant toil has, in Europe, for ages engaged the attention of the most cultivated intellects. France owes much of the stability of her population, and the high order of her civilization, to silk and vine culture. How much might be expected from the education of a large number of our youth in a scientific knowledge of these and kindred pursuits.

For the present purpose of a college, costly buildings will not be required. A true economy would suggest that no expense be spared to secure the highest order of talent in the various professorships, and requisite apparatus for the instruction of pupils. It is the individual professors who popularize all renowned institutions of learning rather than imposing edifices. The proverbial liberality of Californians may be confidently relied upon to hereafter furnish the means for the erection of costly structures, and their endowment with professorships.

The consolidation of the Seminary Fund with the proceeds of the sale of the Agriculture College lands, and the necessary merging of the Agricultural College and the State University into one, would, it is believed, give one institution a good beginning, and make it worthy the claims of not only the people of California, but of those scattered over the great and rapidly-developing regions west of the Rocky Mountains, where the want of educational facilities is the prominent cause of so many of those who have acquired competencies going back to older communities to educate their children.

SALES OF THE WEEK
BY THE S. F. STOCK & EXCHANGE BOARD.

Monday, December 11.

24 shs Ophir at 325@316 per foot, s 10.
60 shs Ophir at 300 per foot, s 3.
60 shs Ophir at 290 per foot, b 3.
12 shs Ophir at 250 per foot.
8 shs Savage at 725@710 per foot, b 30.
7 shs Savage at 710@700 per foot.
3 shs Savage at 700@675 per foot, s 30.
2 shs Savage at 700 per foot, s 3.
36 shs Chollar-Potosi at 132½@160 per foot.
6 shs Chollar-Potosi at 150 per foot, s 30
18 shs Chollar-Potosi at 150@145 per sh, s 3.
3 shs Chollar-Potosi at 150 per foot, b 3.
18 shs Yellow Jacket at 245@237½ per ft, s 5
18 shs Yellow Jacket at 275@235 per foot.
8 shs Yellow Jacket at 240@235 per ft, b 6.
4 shs Crown Point at 420 per foot.
8 shs Gould & Curry at 950@940 per foot.
4 shs Gould & Curry at 950 per foot, b 12.
15 shs Belcher at 230 per foot.
97 shs Imperial at 101@93 per share.
31 shs Imperial at 98@100 per share s 3.
25 shs Imperial at 95@97½ per share, s 60.
5 shs Imperial at 100 per share, s 8.
20 shs Imperial at 100 per share, s 10.
15 shs Imperial at 110@98 per share, s 5.
5 shs Imperial at 100 per share, b 30.
165 shs Sierra Nevada at 9@9½ per share.
35 shs Bullion at 23 per share.
10 shs Bullion at 24 per share, b 10.
2 shs Empire M & M Co. at 180 per share.
5 shs Empire M & M Co. at 180 per sh, s 3.
25 shs Empire M. & M. Co. at 176 per sh, s 15
15 shs Empire M & M Co. at 175 per sh, s 30.
5 shs Empire M & M Co. at 165 per sh, s 60.
10 shs Oakland Railroad at 50 per sh.
2 shs Cal. Steam Nav. Co. at 60 p ct., s 30.
5 shs Cal S Nav Co at 60 per cent, s 10.
3 shs Cal Steam Nav Co at 60 per cent.
10 shs Yellow Jacket at 230@250 per foot
11 shs Yellow Jacket at 250@240 per ft, s 10.
2 shs Yellow Jacket at 240 per foot, b 30.
9 shs Yellow Jacket at 245@240 per ft, s 3.
1 shs Yellow Jacket at 240 per foot, s 5.
12 shs Gould & Curry at 910@850 per foot.
4 shs Gould & Curry at 825 per foot, s 3.
4 shs Savage at 660@650 per foot.
1 sh Savage at 650 per foot, s 3.
3 shs Savage at 650 per foot, s 5.
25 shs Imperial at 90 per share, s 10.
5 shs Imperial at 91 per shnre, b 3.
5 shs Bullion, at 22 per share, b 3.
115 shs Bullion at 22@19 per share.
100 shs Bullion at 21@19 per share, s 3.
10 shs Bullion at 19 per share, s 3.
10 shs Bullion at 19 per share, s 5.
9 shs Bullion at 19 per share, b 3.
10 shs Bullion at 20 per share, b 30.
2 shs Cal Steam Nav Co at 60 per cent.
1 shs Cal Steam Nav Co at 60 per ct, b 3.
Amount of sales.....$153,269 00

Tuesday, December 12.

16 shs Savage at 685@670 per foot.
7 shs Savage at 690@660 per foot, s 3.
6 shs Savage at 680@645 per foot, s 30.
4 shs Savage at 615 per foot, s 15.
1 sh Savage at 680 per foot, b 30.
3 shs Savage at 660 per foot, b 3.
4 shs Yellow Jacket at 230@200 per ft, s 30.
10 shs Yellow Jacket at 240@210 pr ft.
1 sh Yellow Jacket at 235 per foot, s 10.
9 shs Yellow Jacket at 235@210 per ft, s 3.
2 shs Alpha, O. H. at 610@480 per ft, b 30.
72 shs Ophir at 265@256 per share, b 30.
36 shs Ophir at 260@ 50 per foot.
68 shs Chollar-Potosi at 130@125 per foot.
15 shs Chollar-Potosi at 127½@125 per ft, b 3.
7 shs Chollar-Potosi at 126@125 per ft, s 3.
2 shs Chollar-Potosi at 120 per foot, s 30.
5 shs Chollar Potosi at 130 per foot, b 30.
16 shs Gould & Curry at 920@910 per foot.
12 shs Belcher at 485@995 per foot.
35 shs Overman at 15@15½ per share, s 3.
15 shs Overman at 14@12½ per foot.
104 shs Imperial at 85@88 per share.
10 shs Imperial at 88 per share, b 30.
30 shs Imperial at 85 per share, s 10.
10 shs Imperial at 85 per share, s 3.
10 shs Empire M & M Co. at 170@167½, s 30.
5 shs Empire M & M Co. at 170 per sh. b 6
5 shs Empire M & M Co. at 170 per sh, s 10.
20 shs Bullion at 19 per share, b 10.
8 shs Chollar-Potosi at 125@125 per foot.
5 shs Chollar-Potosi at 125 per foot, 2 d.
20 shs Chollar-Potosi at 129 per foot, s 30.
2 shs Chollar-Potosi at 122@123 per foot.
21 shs Chollar-Potosi at 120@128 per foot.
17 shs Chollar-Potosi at 119 per foot.
2 shs Chollar-Potosi at 121 per foot.
2 shs Chollar-Potosi at 123 per foot.
2 shs Chollar-Potosi at 122 per foot.
2 shs Chollar-Potosi at 122 per foot, s 3.
8 shs Crown Point at 380 per foot.
4 shs Crown Point at 400 per foot, s 3.
4 shs Crown Point at 400 per foot.
3 shs Savage at 650 per foot.
2 shs Savage at 640 per foot, s 30.
1 sh s Savage at 660 per foot, b 10.
1 sh Savage at 660 per foot, b 15.
1 sh Savage at 645 per foot.
2 sh Savage at 620 per foot, s 30.
2 shs Savage at 645 per foot.
1 sb Hale & Norcross at 170 per foot.
6 shs Belcher at 150 per foot.
6 shs Belcher at 125 per foot, s 30.
3 shs Belcher at 130 per foot, b 30.
4 shs Yellow Jacket at 210 per foot.
23 shs Yellow Jacket at 200 per foot, s 30.
1 shs Yellow Jacket at 215 per foot.
3 shs Yellow Jacket at 205 per foot.
1 sh Yellow Jacket at 205 per foot, s 3.
1 shs Yellow Jacket at 207½ per foot.
12 shs Ophir at 240 per foot.
12 shs Ophir at 200 per foot, s 30.
8 shs Gould & Curry at 760@755 per foot.
4 shs Gould & Curry at 750 per foot, s 3.
2 shs Empire M. & M. Co. at 160 per share.
5 shs Bullion at 15 per share.
25 shs Overman at 10 per share, s 30.
1 sh Imperial at 87 per share.
13 shs Imperial at 85 per share.
5 shs Imperial at 80 per share.
5 shs Imperial at 82½ per share.
15 shs Imperial at 82 per share.
5 shs Imperial at 77 per share, s 30.
10 shs Imperial at 83 per share.
2 shs Cal Steam Nav Co at 55 per cent, s 30
Amount of sales.....$148,374 00

Wednesday, December 13.

12 shs Ophir at 200 per foot, s 3.
12 shs Ophir at 200 per foot, s 30.
96 shs Ophir at 205@210 per foot.
7 shs Savage at 595@570 per foot.
4 shs Savage at 595@680 per foot, s 3.
3 shs Savage at 590@550 per foot, s 30.
1 sh Savage at 635 per foot, b 30.
2 shs Chollar-Potosi at 118 per foot, s 3.
12 shs Chollar-Potosi at 115 per foot, s 10.
23 shs Chollar-Potosi at 115@112 per ft, cash
13 shs Chollar-Potosi at 110 per foot, s 3.
13 shs Chollar-Potosi at 112½ per foot, b 3.
3 shs Chollar-Potosi at 112½ per foot, s 10.
36 shs Chollar-Potosi at 115 per foot, s 3.
5 shs Chollar-Potosi at 120 per foot, b 30.
1 sh Yellow Jacket at 200 per foot, s 3.
1 sh Yellow Jacket at 215 per foot, s 5.
4 shs Yellow Jacket at 220@275 per ft, cash.
1 sh Yellow Jacket at 230 per foot.
1 sh Yellow Jacket at 235 per foot.
7 shs Yellow Jacket at 240 per share, s 10.
3 shs Yellow Jacket at 255 per foot.
2 shs Yellow Jacket at 255 per foot, s 5.
1 sh Yellow Jacket at 260 per foot, s 10.
1 sh Yellow Jacket at 245 per foot, s 30.
1 sh Yellow Jacket at 205 per foot.
4 shs Yellow Jacket at 300 per foot.
3 shs Yellow Jacket at 290 per foot.
12 shs Gould & Curry at 760@730 per foot.
3 shs Belcher at 140 per foot.
9 shs Belcher at 130 per foot.
9 shs Belcher at 125 per foot.
4 shs Crown Point at 400 per foot.
4 shs Crown Point at 395 per foot, s 3.
6 shs Overman at 10 per share, s 30.
20 shs Overman at 10 per foot.
5 shs Overman at 9 per foot.
5 shs Imperial at 84 per share.
10 shs Imperial at 83 per share.
40 shs Imperial at 80 per share, s 10.
5 shs Imperial at 80 per share, s 15.
10 shs Imperial at 81 per share, s 10.
25 shs Imperial at 81@85 per share, cash.
2 shs Imperial at 86 per share.
18 shs Imperial at 87 per share, s 5.
20 shs Imperial at 88 per share, s 10.
5 shs Imperial at 92½ per share.
10 shs Imperial at 90 per share, s 10.

FROM THE OFFICIAL REPORTS

Of the Fifth Industrial Exhibition

Of the Mechanics' Institute, San Francisco, 1865.

[Now in Press—Mining and Scientific Press Book and Job Office.]

REPORT OF THE EXECUTIVE COMMITTEE.

To the Members of the Mechanics' Institute of the City of San Francisco.

GENTLEMEN:—The Executive Committee of the Fifth Industrial Exhibition of the Mechanics' Institute, in presenting their report of the details of the management, expenditures and receipts of the same, desire to congratulate you on the now prosperous condition of the Association, which presages increased usefulness in the future, and the consequent stimulating of industrial and mechanical pursuits among us until they attain a state of perfection, in all their departments, not to be excelled elsewhere. It is with no spirit of self-gratulation, or ordinary feelings of pride, that they have to announce to you that, from the success of the late Exhibition, the Institute is, for the first time in its history, free from indebtedness and with funds in its treasury.

In this connection a brief retrospect of the past is proper, and may not be uninteresting to many who have not been cognizant of the difficulties and trials which the Association so long labored under, and from which it has so triumphantly emerged.

The preliminary meeting for the forming of an organization was held by the mechanics of San Francisco at the office of the Tax-Collector, on the evening of the 11th day of December, 1854, and on the 6th day of March following, the Committee appointed at the preceding meeting reported a Constitution as the result of their labors, which was adopted. With varying fortune, but generally an adverse one, the Institute continued increasing its library and usefulness, until February, 1863, when it was found that, having held three Fairs, viz., in 1857, 1858, and 1860, the Institute was steadily tending to bankruptcy. At this time urgent appeals were made through the public press for support from those engaged in mechanical and other pursuits. These appeals met with a generous response, so that, in October of the same year, the officers of the Institute were enabled to welcome the other members to the opening of the building in California Street, which at the present time is occupied by the Association. A large debt was still due on the building, mainly consisting of two mortgages: the first of $6,000, with a number of years to pay it in; and a second for $2,500, due on the 8th of February following. About the latter period the Institute was in high favor with the business public of San Francisco on account of its action in regard to the currency question, and its wants becoming known, the amount required to pay off the second mortgage was donated, and the same paid at maturity. At the close of 1863, it was determined by the Institute to give a course of lectures, Professors Brewer and Whitney, of the State Geological Survey, and the Rev. Thomas Starr King, kindly volunteering to deliver the same without charge. From these lectures the sum of $1,000 was realized.

A large debt still hanging over the Institute, in the spring of 1864 it was decided to hold an Industrial Exhibition in September following, from the proceeds of which it was hoped to be able to relieve the Institute from all pecuniary embarrassment. By the kindness of the Board of Supervisors a privilege was granted to the Institute, allowing it the use of Union Square to erect the necessary buildings for the holding of the proposed Fair. Through the confidence and liberality of members, and others, sufficient funds were advanced, on the security of the receipts of the proposed Fair, to erect suitable buildings for the purpose.

The Fair of 1864 was a great financial success, the receipts more than equaling all expenditures, leaving the buildings the property of the Institute, besides clearing off considerable floating indebtedness. The Board of Supervisors kindly extending the time for occupying the square for another year, and the mortgage of $6,000 being still due on the California Street property, besides some floating indebtedness, it was resolved by the Institute to hold another Fair in August, 1865, to liquidate the same, if possible, and the present Board of Officers were instructed to carry out the proposed plan.

The management of the Fair of 1865 entered on their duties under peculiar circumstances, the general feeling of exhibitors and the public, at the first announcement of the intention, being quite adverse to the same. The buildings of the Fair of 1864, however, having been left by the preceding Board, encouraged your Committee to persevere, while better counsels prevailed among exhibitors, so that, on the opening of the Fair on the day proposed (10th of August), a most creditable exhibition, for a first night, was made. The public appreciating the endeavors of the Executive Committee, ensured the success of the Fair, which also encouraged exhibitors, so that the display, in number, value, and variety of entries, fully equalled any of its predecessors, while in a financial point of view, the result, as above stated, liquidated all indebtedness of the Institute, both bonded and floating, and, at the date of this report, leaves a balance to the credit side of the management of the late Fair of about $10,000.

For items of receipts and expenditures the Committee refer you to the detailed account, as per Treasurer's report annexed.

In conclusion, the Committee deem it a fitting opportunity to return the thanks of the Institute to the Press for many favors received, and to the Public at large, whose generous patronage has stimulated enterprise, and enabled the Committee to present so favorable a report.

Towards the close of the Fair your Committee donated the receipts of five consecutive nights to the following named Charitable Societies, viz., Roman Catholic Orphan Asylum, Protestant Orphan Asylum, St. Vincent de Paul Society, Ladies' Protection and Relief Society, and the Home of the Inebriate, besides giving five nights' rent and half of the receipts from the Colfax address to the Ladies' Seamans' Friend Society.

CHARLES M. PLUM,	W. W. HANSCOM,	DAVID DWYER,
JOSIAH MOULTON,	EDWARD NUNAN,	H. K. CUMMINGS,
JAMES R. DEANE,	D. A. MACDONALD,	J. W. REAY,
A. A. SNYDER,	C. S. HOOINS,	P. B. DEXTER.

TREASURER'S REPORT.

To the Chairman and Members of the Executive Committee of the Mechanics' Institute of the City of San Francisco, for the Industrial Exhibition of 1865:

GENTLEMEN:—I beg leave to lay before you the following Report of the Receipts and Disbursements of the Fifth Industrial Exhibition of the Institute, just brought to a close under your supervision; also, a Ticket Report, showing the number of tickets of each class sold, and the names of the persons who kindly consented to aid in selling the same. As a matter of record, I thought it proper to give, parenthetically, the receipts at the door of the Pavilion on the days given to charitable associations, each of whom realized considerable by the sale of tickets otherwise. I will also state that, in accordance with your instructions, the rent of the New England Kitchen was not collected on said days, nor for the twenty-first day of the Exhibition, which, together with $61.55 on the afternoon of the Colfax oration, was equivalent to a donation to that institution of $361.55.

I have the honor to be, gentlemen, your obedient servant,

EDW'D NUNAN, Treasurer.

Synopsis

Of the Receipts and Disbursements of the Industrial Exhibition of 1865, as carried out in detail in the following pages:

RECEIPTS.

To amount received as Loans to Exhibition Fund, as per account folio	$ 3,400 00
" " for tickets, as per account folio	26,240 50
" " for privileges, as per account folio	2,373 05
" " for sundries, as per account folio	3,441 70
	$35,455 25

DISBURSEMENTS.

By cash paid Loans, as per account folio	$ 3,400 00
" " Building Expense, as per account folio	3,309 86
" " Running Expense and Sundries, as per account folio	12,081 57
By amount transferred to Treasury of the Institute	14,000 00
	$32,791 43

Loans.

Received from (and returned to) the following persons as Loans to the Exhibition Fund:

C. Reis	$250 00
Blyth & Wetherbee	250 00
California Steam Navigation Company	250 00
North Beach and Mission Railroad Company	300 00
Central Railroad Company	300 00
San Francisco and Oakland Railroad Company	200 00
S. M. Sargent	100 00
Goddard & Co	200 00
Thomas Day	200 00
William B. Cook	200 00
Crane & Brigham	200 00
R. B. Woodward	200 00
F. E. Weygant	100 00
William T. Coleman	200 00
Meeker, James & Co	150 00
Howland, Angell & King	200 00
Vulcan Iron Works Company	100 00
	$3,400 00

Over $10,000 was subscribed to this Fund, but the above amount was all that was considered necessary to be collected. There was no difficulty whatever experienced in obtaining loans, and it is worthy of note that Wm. C. Ralston, of the Bank of California, consented to have an account opened with that Bank as early as the 1st of June, on the assumption of deposits, when realized, not limiting the amount to be drawn.

CASH DR. TO SUNDRIES.

To amount received from Mallon & Co., for Glass	$ 20 00
" " " Mr. Higgins, for Zinc	2 00
" " " Benefits, to pay their Current Expenses	525 00
" " " S. F. Insurance Co., returned Premium on Policy of Insurance	84 00
" " " Home " " " " " "	54 00
" " " Fireman's Fund " " " "	45 00
" " " Union Insurance Co., " " " "	34 10
" " " Proceeds of Sale of Pavilion	1,781 00
" " " Proceeds of Sale of Chairs	125 55
" " " P. O'Brien, for Gas Pipe	700 00
" " " D. Dwyer, for Gas Pipe	4 80
" " " J. H. O'Brien, for Chandeliers	75 00
" " " W. W. Hanscom, for Fire Wood	11 25
	$3,441 70

There still remains on hand all the water pipe, valued at $800; stop-cocks, valued at $50; and all the gas burners and reflectors, which, in the event of another Fair, will be found very valuable.

CASH DR. TO PRIVILEGES.

To amount received for rent of New England Kitchen (received daily)	$1,050 00
" " from A. Whitney, Soda Fountain, 20 per cent. on gross amount	94 85
" " " W. Frink, " " " "	63 45
" " " A. Schuman, Cigar Stand	85 00
" " " Dewey & Co., Printing Privileges, 25 per cent. of net profits	150 00
" " " Swain & Brown, 20 per cent. on Restaurant receipts	629 95
" " " Card Writer, six days (privilege withdrawn)	15 00
" " " J. Halstead, Cider Privilege	100 00
" " " John Dean " "	100 00
" " " E. W. Walton " "	100 00
	$2,373 05

The returns of the Restaurant are from the Receiver placed there by the Executive Committee during the Fair.

Ticket Account.

Showing the total number sold, and by whom, (original delivery):

	DOUBLE SEASON.	SINGLE SEASON.	BOYS' SEASON.	ADMISSION.	BOYS' ADMISSION.	AMOUNTING TO.
E. P. Heald	....	....	13	....	.... $	26 50
J. B. Pierce	60	18	....	....	....	348 00
William K. Benjamin	50	2	....	....	....	256 00
P. B. Dexter	88	3	....	....	....	439 00
D. Dwyer	24	4	....	....	....	132 00
J. Halstead	2	2	....	....	....	18 00
Tucker & Co	18	7	....	....	....	111 00
A. A. Snyder	13	4	....	....	....	77 00
Barrett & Sherwood	12	4	....	....	....	72 00
Keith & Co	13	7	....	....	....	88 00
A. Roman & Co	8	3	....	....	....	39 00
Bancroft & Co	9	2	....	....	....	51 00
Blyth & Wetherbee	21	9	....	....	....	132 00
H. F. Williams	12	2	....	....	....	86 00
George Sturdevant	5	....	....	....	....	25 00
Tyler Bros	3	3	....	....	....	24 00
A. Kohler	9	5	....	....	....	80 90
Chas. M. Plum	17	1	....	....	....	88 00
Jas. R. Dean	11	2	....	....	....	61 00
Josiah Moulton	22	8	....	....	....	128 00
D. A. Macdonald	79	14	....	....	....	437 00
W. W. Hanscom	11	8	....	....	....	79 00
D. R. Coleman	18	2	....	....	....	98 00
Spring Valley Water Co	20	....	....	....	....	100 00
Robert Rodgers	65	4	....	....	....	337 00
A. S. Hallidie	8	....	....	....	....	40 00
J. Pierce	5	....	....	....	....	25 00
*E. B. Walsworth's School	....	....	....	....	100	20 00
Scattering, per Day-Book	5	....	1	8	....	30 50
Dwyer & Macdonald	303	109	8	4,130	198	3,988 60
Robert Riddle (Clerk)	1,105	374	91	23,527	1,320	18,877 00
Totals	2,012	593	113	27,665	1,818	$28,240 59

* A reduction of five dollars was made on these tickets, being sold for school purposes.

RECAPITULATION OF TICKET ACCOUNT.

Double Season Tickets sold, 2,012, at $5	$10,060 00
Single Season Tickets sold, 503, at $3	1,779 00
Boys' Season Tickets sold, 113, at $1.50	169 50
Admission Tickets sold, 27,865, at fifty cents	13,832 50
Children's Admission Tickets sold, 1,618, at twenty-five cents	404 50
	$28,245 50
Discount on School Tickets	5 00
Total received for Admission	$26,240 50

DOOR RECEIPTS

Each day during the Exhibition, commencing August 10th:

1st day	$ 2,310 00
2d day	1,538 20
3d day	1,779 50
4th day	1,494 15
5th day	1,224 50
6th day	1,100 75
7th day	929 75
8th day	978 50
9th day	1,556 80
10th day	749 20
11th day	883 00
12th day	860 05
13th day	718 25
14th day	585 75
15th day	1,154 00
16th day	461 25
17th day	475 50
18th day	572 00
19th day	519 75
20th day	681 50
21st day	1,199 50
22d day, Benefit of Catholic Orphan Asylum	565 85
23d day, Benefit of Protestant Orphan Asylum	573 20
24th day, Benefit of the Ladies' Protection and Relief Society	291 95
25th day, Benefit of St. Vincent DePaul Society	555 05
26th day, Benefit of Home of Inebriate	436 54
27th day	839 40
	$22,808 20

The above daily receipts include the amount received for Season Tickets sold at the door.

Building Expense Account.

Including Tables and Woodwork Connected with Machinery:

Addition	To amount paid Pickering & Harvey for Add'n to Building		$1,180 00
Carpenters	To amount paid William Goudy, labor	$172 00	
"	" E. S. King, labor	08 00	
"	" M. V. Wiggins, labor	156 00	
"	" Christopher Toole, labor	114 00	
"	" L. L. Worcester, labor	96 00	
"	" J. B. Leavett, labor	57 00—	633 00
Drilling	To amount paid Murphy, Grant & Co		146 84
Gas Pipe & Fixtures	To amount paid Thomas Day, for pipe	58 83	
"	" J. K. Prior, for pipe	24 98	
"	" J. W. Brittan, for pipe and fittings	30 39	
"	" J. H. O'Brien, for chandeliers & fixtures	325 00	
"	" Johnston & Reay, mat'ls for reflect's, etc.	65 42	
"	" H. Maddern, gas fitter	306 00	
"	" Thomas Flarrity, helper	160 50	
"	" McGill & Co., columns for chandeliers	54 90—	1,024 00
Glass	To amount paid Mallon & Co., for glazing		3 00
Hardware	To amount paid Conroy & O'Connor, hardware	69 00	
"	" Underhill & Co., hardware	9 00	
"	" W. H. Eastman, hardware	13 00—	91 00
Lumber	To amount paid Johnston & Co., lumber	113 00	
"	" Wetherbee & Co., lumber	116 32—	229 32
Mouldings	To amount paid McGill & Co., mouldings		18 70
Zinc Work	To amount paid H. G. & E. S. Fisk, for zinc work		4 00
			$3,309 86

Sundries, and Running Expense Account.

Advertising	To amount paid Alta California	$ 01 00	
"	" American Flag	70 25	
"	" Abend Post	20 00	
"	" Bulletin	86 00	
"	" California Farmer	25 00	
"	" Californian	30 00	
"	" California Demokrat	16 00	
"	" California Chronik	6 00.	
"	" California Rural Home Journal	12 50	
"	" Christian Advocate	10 00	
"	" Hebrew Observer	11 50	
"	" Hebrew	14 00	
"	" Golden Era	30 00	
"	" Irish News	10 00	
"	" Independent	5 00	
"	" Le National	15 00	
"	" L'Independant	15 00	
"	" L'Echo du Pacific	4 00	
"	" Morning Call	60 50	
"	" Nuevo Mundo	22 00	
"	" Parola	15 00	
"	" Police Gazette	30 00	
"	" Scientific Press	42 50	
"	" Santa Cruz Sentinel	10 75	
"	" Spirit of the Times	40 00	
"	" Sunday Mercury	23 00	
"	" Spectator	10 00	
"	" Weekly Pacific	12 00	
"	" L. P. Fisher, agent	240 00	
"	" Wm. B. Lake, agent	27 50	
"	" J. B. Thompson, in cars	15 00—	$ 1,019 50
Posting Bills	To amount paid George Bradford	5 00	
"	" Way & Keyt	20 00—	25 00
Decorations	To amount paid Elam & Howes, for two American Flags	60 00	
"	" John C. Bell, for use of Flags	20 00	
"	" Collie & Stewart, evergreens	80 00	
"	" James O'Bonnell, plants	8 00	
"	" James Hutchinson, evergreens	60 00	
"	" W. C. Walker, plants	50 00	
"	" Paltenghi & Larseneur, use of statuary	20 00—	208 00
Address	To amount paid H. B. Platt, for Music Hall	75 00	
"	" S. M. Blair, decorations	20 00—	95 00
Damage & Loss	To amount paid Jacob Strahl, damage to billiard table	10 00	
"	" P. Liensenfelt, damage to billiard table	10 00	
"	" E. T. Lorquin, damage to goods	16 12	
"	" A. Borgaret, for stamp lost	5 00	
"	" L. Schell, re-glazing show case	5 00	
"	" John Harding, to re place rope cut	25 00—	71 12
Discount	To amount paid discount on U. S. currency, received from Government employees	205 11	
"	" discount on silver deposited in bank at the close of the Exhibition	10 50—	215 81
Employees	To amount paid J. S. Pierce, Agent	325 00	
"	" Gardner Elliott, Superintendent	360 00—	685 00
"	" Henry Maddern	134 00	
"	" James Gilkinson	139 50	
"	" Terrence Sullivan	138 50	
"	" D. A. DeGroot	111 00	
"	" Geo. Getchell	58 50	
"	" E. E. Jennings	90 00	
"	" A. W. White	114 00	
"	" J. B. Bowers	88 50	
"	" John Lynch	52 50	
"	" D. Barry	84 00	
"	" H. G. Bloomer	120 00	
"	" J. J. Collins	87 00	
"	" Wm. Kenny	57 00	
"	" P. B. Comms	132 00	
"	" E. Collin	10 50	
"	" Jas. Driscoll	99 00	
"	" Jas. Stone	102 00	
"	" Jas. Goldman	240 00	
"	" Thomas Dickens	85 50	
"	" Thomas Flarrity	85 00	
"	" Thomas M. Blair	135 00	
"	" N. Hudson	124 00	
"	" J. H. Culver	132 00	
"	" Robert Riddle	247 00	
"	" John Evatt, police officer (donated)	50 00	
"	" David Williams	3 00—	2,824 50
Gas	To amount paid San Francisco Gas Company, for gas		1,387 18
Insurance	To amount paid Home Insurance Company	96 20	
"	" Home Mutual Insurance Company	17 20	
"	" San Francisco Insurance Company	128 10	
"	" Union & Fireman's Fund Ins. Companies	160 50—	402 00

Machinery Department.

Engine	To amount paid H. J. Booth & Co. for setting and removing engine, use of shafting, etc	307 00	
"	" Palmer, Knox & Co., machinists' work	34 50	
"	" Wm. Brodie, for couplings	48 88	
"	" Wm. T. Garratt, steam cocks, etc	41 44	
Hauling	To amount paid J. H Hebert, hauling	10 00	
"	" R. & J. Morton, removing boiler	40 00	
Belting	To amount paid Chas. H. Harrison, for Belting	34 68	
"	" Marsh, Pilsbury & Co	123 15	
Engineer	To amount paid C. F. Jones, engineer	105 00	
Firewood	To amount paid Forsyth & Morrison, firewood	182 25	
"	" Anderfried & Male, firewood	34 00	
Coal	To amount paid Haste & Kirk, coal	43 31—	1,044 21
Music	To amount paid M. W. Willis, band		1,540 00
Printing	To amount paid Edward P. Fish, for printing	03 25	
"	" Dewey, Waters & Co. "	18 00	
"	" Calhoun & Son "	32 00	
"	" Wm. P. Harrison "	3 00	
"	" Agnew & Deffebach "	20 88	
"	" A. N. Rood "	20 50	
"	" J. Thompson & Co. "	9 50	
"	" B. F. Sterett "	20 50	
"	" C. F. Robbins & Co. "	78 00—	307 41
Painting	To amount paid Hopps & Kanary, lettering	5 00	
Whitewashing	To amount paid J. W. Whitaker, whitewash'g & paint'g.	53 50—	58 50
Petty Cash	To amount paid J. B. Pierce, petty cash	160 03	
"	" D. Dwyer, "	23 75	
"	" A. A. Snyder "	3 50	
"	" Henry Maddern, "	10 25	
"	" D. DeGroot, "	3 50	
"	" H. F. Williams, "	25 00	
"	" W. W. Hanscom, "	1 00—	227 03

Premiums.

Medals	To amount paid R. B. Gray, for six gold medals	408 10	
"	" R. B. Gray, silver medals		
Engraving	To amount paid E. T. J. Swasey, engraving medals	63 48	
Boxes	To amount paid L. Breidenstein, medal boxes	7 75	
"	" H. Manneck, medal boxes	4 00	
Diplomas	To amount paid Britton & Co., for altering, printing and lettering diplomas	183 50	
"	" Nahl Bros., certificate of merit	50 00	
"	" Nahl Bros., ink drawing	4 00—	008 83
Paper	To amount paid Reed & Co., for paper, etc	69 10	
"	" S. P. Taylor & Co., for paper	3 00—	72 10
Paperhangings	To amount paid G. W. Clark, for paperhangings		15 00
Refreshments	To amount paid Swain & Brown, refreshments	170 00	
"	" F. C. Belden, "	163 00	
"	" H. M. Lund	10 00—	343 00
Stationery	To amount paid Jos. A. Carrie, stationery		11 62
"	" Blank book, etc., for Treasurer		2 50
Stamps	To amount paid for check stamps, U. S. currency		2 00
Safe	To amount paid Russell & Irwin Manufacturing Co., cartage and repairs to safe		15 00
Sash	To amount paid B. & J. S. Doe, loan of sash for Show case		9 50
Soap	To amount paid Standard Soap Co., for soap used by washing machine		7 00
Sundries	To amount paid C. M. Plum, for sundries		7 08
"	" J. L. Burkee, for use of settees in picture galleries		30 00
"	" Weller & Jacobie, for muslin		5 25
"	" P. F. Loughran, for matting		39 00
"	" Underhill & Co., for use of furniture		10 00
"	" Armes & Ballam, for brooms		6 50
"	" Stanyan & Co., removing rubbish		7 50
"	" Goodwin & Co., for mattress		3 00
"	" S. Johnson, night work		10 00
"	" E. Spear, to cartage on shields		2 00
"	" R. A. Swain, for use of crockery		12 50
"	" H. T. Graves, for wire cloth		1 00
Reports	To amount paid H. D. Dunn, for compiling and preparing reports	250 00	
"	" A. Snow, for assistance in preparing awards for publication	25 00—	275 00
Remov'g Gas Pipe	To amount paid H. Maddern, labor, removing gas pipe	21 00	
"	" Thos. Flarrity " "	26 50	
"	" J. I. Collins " "	19 15	
"	" E. E. Collin, " "	6 00—	72 65
"	" R. & J. Morton, hauling gas pipe, chairs, etc., from Pavilion		18 50
Water	To amount paid Spring Valley Water Co., for water		200 00
			$12,091 51

ON STEAM ENGINES AND MACHINERY.

Committee:

CHARLES C. BEMIS. HENRY S. SMITH. THOMAS WINSHIP.

The importance of steam power, and the uses of labor-saving machinery throughout the industrial world, are too well known at this day to require comment. In the case of California and the Pacific slope of the United States, the use of steam power has played so important a part in developing the resources of the country that it stands pre-eminent among the favoring causes that have led to our present stato of prosperity, and promise of future greatness. Isolated from, and, as it were, lost to the influences of the great manufacturing enterprises which have made the nations that possessed them powerful beyond all others, the prosperity of the Pacific slope of the United States, in the absence of machinery and steam motive power, would have languished for many decades of years before attaining to its present greatness.

The high price of skilled labor, the difficulty of obtaining regular supplies of matcrials for manufacture, with great and injurious fluctuations in value, and the excessive rates of interest for money, all combined to deter and prevent the investment of capital in the home-manufacturing of machinery for the uses of the peoplo Fortunately, under all these discouragements, the wants of the country were so imperative for mining machinery that could only he made under the direction of operators in the vicinity of where it was needed, that foundries and machine shops had to be erected. These, once established, machinery for other than mining purposes was called for, and the diffcrent specimens exhibited in the Fair afford good evidence of our ability to furnish all machinery that the demands of our people require.

Steam Engine from the Union Iron Works, San Francisco, H. J. Booth & Co., proprietors.—This Stationary Steam Engine furnished nearly all tho motive power for the various machines in operation at the Exhibition, and was built hy the exhibitors. It is beautifully finished, and is judiciously and elegantly proportioned in all its parts. It works smoothly and steadily, and challenges tho admiration of all.

We would here remark that the steam engine of the present day is necessarily somewhat more complex than that of an earlier period, on account of the nicer adjustments of speed, and the rigid economy of fuel required to meet the demands of manufacturing, and the closest competition in all branches of industry. In the march of improvement these demands have sometimes heen met hy giving to certain vital parts of the machine merely an improved form, which embodied, in a high degree, the laws applicable to the particular requirement. This expedient, however, is not available in all cases, but the addition of new and delicately-working parts is required, without the aid of which the fullest economy of power cannot be obtained. Each avenue of loss has also to be carefully guarded, and, in all cases, the greatest simplicity of parts secured, compatible with the functions to be performed. The engine on exhibition has a cylinder fourteen inches in diameter and thirty inches stroke. The builders seem to have been fully aware of the importance of perfecting the details of the machine, as well as caring for its more general proportions, in order to secure that continued well-working and uniform rate of economy necessary to give character to their manufacture. This engine is provided with Scott & Eckhart's Variable Expansion Valves, the speed of the engine being regulated by the valves closing their ports variably from the commencement of the stroke to the point of loss in valve, the change of speed being attained by an attachment to the governor. This arrangement of expansion works noiselessly and effectually, the engine heing entirely under the control of the *governor*. Awarded a gold medal.

[*To be Continued.*]

8 shs Savage at 640@650 per foot, s 30
1 sh Savage at 650 per foot, s 10.
22 shs Chollar-Potosi at 130@132½ per foot.
60 shs Imperial at 95@90 per sh, s 3.
132 shs Imperial at 95@90 per share.
15 shs Imperial at 85@87½ per sh, s 30.
25 shs Imperial at 94 per share.
10 shs Imperial at 90 per share, cash.
10 shs Bullion at 15@13 per share, s 3.
125 shs Exchequer at 8 per share.
40 shs Empire M & M Co. at 165 per share.
1 sh Empire M & M Co. at 165 per sh, cash
20 shs Empire M & M Co. at 165@165, s 30.
2 shs Empire M & M Co. at 167½, s 3.
10 shs Empire M & M Co, 167½ per sh, s 30.
5 shs Empire M & M Co. at 172½, b 30.
5 shs Empire M & M Co. at 170 per sh, s 30.
3 shs Cal S Nav Co at 57 per cent.
5 shs Cal. Steam Nav. Co. at 55 per ct, s 30

AFTERNOON SESSION.

1 sh Savage at 650 per foot.
3 shs Savage at 660 per foot, b 10.
4 shs avage at 640 per foot.
1 sh Savage at 600 per foot, s 30.
2 shs Savage at 655 per foot, s 5.
2 shs Yellow Jacket at 255@275 per ft, s 3.
2 shs Yellow Jacket at 275 per ft.
2 shs Yellow Jacket at 265@250 per ft, s 30.
11 shs Yellow Jacket at 280 per foot.
8 shs Yellow Jacket at 250 per share, s 3.
3 shs Yellow Jacket at 225 per foot, s 30.
1 sh Yellow Jacket at 275 per foot, b 30.
1 sh Yellow Jacket at 250 per share.
8 shs Gould & Curry at 750 per foot,.
12 shs Ophir at 215 per foot.
24 shs Ophir at 225 per foot, s 3.
24 shs Ophir at 230@250 per foot, s 5.
12 shs Ophir at 240 per foot.
15 shs Chollar-Potosi at 120 per foot.
11 shs Chollar-Potosi at 125 per foot.
5 shs Chollar-Potosi at 125 per foot, s 10.
15 shs Chollar-Potosi at 125 per foot, b 30.
5 shs Chollar-Potosi at 125 per foot, b 10.
10 shs Overman at 10½@10 per foot.
5 shs Overman at 11 per foot, b 10.
2 shs Hall & Norcross at 100 per foot.
2 shs Hale & Norcross at 120 per foot.
6 shs Belcher at 135 per foot.
3 shs Belcher at 170 per foot.
5 shs Bullion at 13 per share.
10 shs Bullion at 14 per share.
5 shs Bullion at 15 per share.
30 shs Exchequer at 8 per share.
5 shs Imperial at 90 per share.
15 shs Imperial at 87 per share, s 10.
10 shs Imperial at 85 per share, s 30.
10 shs Imperial at 83 per share, s 10.
5 shs Empire Mill & Mining Co. at 170.
2 shs Oakland at 50 per cent.
1 sh Cal Steam Nav Co at 54 per cent.
Amount of sales.....$173,641 00

Thursday, December 14.

20 shs Gould & Curry at 800 per foot, s 5.
40 shs Gould & Curry at 800@825 per ft, 35 d
8 shs Gould & Curry at 800@810 per ft, s 10.
4 shs Gould & Curry at 830 per foot.
8 shs Gould & Curry at 800 per foot, s 30.
30 shs Chollar-Potosi at 125½@120, s 30.
28 shs Chollar-Potosi at 125@127½ per ft, s 3
45 shs Chollar-Potosi at 127½@130 per foot.
10 shs Chollar-Potosi at 125 per foot, s 15.
1 sh Chollar-Potosi at 130 per foot, b 30.
10 shs Chollar-Potosi at 125 per foot, s 5.
5 shs Chollar-Potosi at 127½ per foot, b 10.
25 shs Overman at 10@8 per share.
3 shs Savage at 690 per foot, s 30.
4 shs Savage at 680@692 per foot, 35 d.
7 shs Savage at 670@690 per foot.
6 shs Savage at 665@675 per foot, s 3.
1 sh Savage at 695 per foot, b 30.
4 shs Alpha, G. H. at 550 per foot, b 3.
4 shs Alpha, G H, at 400 per foot.
4 shs Alpha G. H., at 400 per foot, s 3.
5 shs Yellow Jacket at 250@255 per foot.
8 shs Yellow Jacket at 250 per foot, s 3.
9 shs Yellow Jacket at 220@230 per ft, s 30.
2 shs Yellow Jacket at 250 per foot, s 5.
45 shs Belcher at 130@145 per foot.
3 shs Belcher at 140 per foot, b 10.
4 shs Crown Point at 440 per foot.
41 shs Imperial at 92½@86 per share.
30 shs Imperial at 88@85 per share, s 10.
55 shs Imperial at 74½@84 per share, s 30.
10 shs Imperial at 90@87½ per share, b 30.
5 shs Imperial at 85 per share, s 5.
28 shs Confidence at 21@20 per share.
10 shs Confidence at 21 per share, b 30.
5 shs Confidence at 20 per share, b 10.
45 shs Bullion at 12½@13 per share.
5 shs Bullion at 14 per share, b 5.
5 shs Steam Nav Co at 51 per cent.
12 shs Cal Stem Nav Co at 50@45 p. c, s30.
5 shs Cal Steam Nav Co at 53 per cent, s 10
10 shs Cal Steam Nav Co at 45 per cent, s 60
$10,000 Legal Tender Notes at 68c.
$ 5,000 Legal Tender Notes at 67¾c, s 30.

AFTERNOON SESSION.

30 shs Chollar-Potosi at 125 per foot.
10 shs Chollar-Potosi at 120 per foot, s 30.
5 shs Chollar-Potosi at 120 per foot, b 30.
5 shs Chollar-Potosi at 120 per foot, s 3.
12 shs Chollar-Potosi at 120 per foot.
5 shs Chollar-Potosi at 120 per foot, b 30.
5 shs Chollar-Potosi at 122 per foot.
4 shs Gould & Curry at 830@800 per foot.
48 shs Gould & Curry at 760 per foot, s 30.
4 shs Gould & Curry at 790 per foot.
40 shs Alpha, G. H., at 300 per foot, s 30.
4 shs Alpha, G H, at 330 per foot, b 30.
4 shs Alpha, G H, at 300 per foot.
8 shs Alpha, G. H., at 310 per ft, b 30.
7 shs Savage at 680@695 per foot.
2 shs Savage at 700 per foot, 30 d.
2 shs Savage at 690@695 per foot, s 3.
2 shs Savage at 695 per foot.
5 shs Savage at 700 per foot, b 3.
3 shs Savage at 675 per foot, s 30.
1 sh Savage at 665 per foot, s 30.
1 shs Savage at 690 per foot.
1 sh Yellow Jacket at 230 per foot, s 3.
4 shs Yellow Jacket at 225 per foot, 35 d.
1 sh Yellow Jacket at 240 per foot, b 30.
1 sh Yellow Jacket at 240 per foot.
2 shs Yellow Jacket at 235 per foot.
1 sh Yellow Jacket at 225 per foot, s 30.
1 sh Yellow Jacket at 215 per foot.
30 shs Overman at 9 per foot.
1 sh Imperial at 83 per share.
15 shs Imperial at 84 per share.
10 shs Imperial at 82 per share, s 10.
25 shs Imperial at 83 per share, s 3.
70 shs Imperial at 83 per share, s 30.
10 shs Imperial at 84 per share, s 5.
10 shs Imperial at 84½ per sharo, b 3.
10 shs Confidence at 20 per share.
10 shs Bullion at 12½ per sharo.
2 shs Cal Steam Nav Co at 55 per cent.
5 shs Ca Steam Nav Co at 55 per cent, s 30
20 shs Cal Steam Nav Co at 54 per cent, s 60
Amount of sales.....$169,364 00

Friday, December 15.

11 shs Savage at 700@690 per cent.
9 shs Savage at 710@730 per foot.
5 shs Savage at 700 per foot, s 30.
5 shs Savage at 730@740 per foot, s 5.
48 shs Crown Point at 451@460 per foot.
8 shs Crown Point at 455 per foot, b 5.
4 shs Crown Point at 445 per foot, s 30.
4 shs Crown Point at 460 per share, b 30.
54 shs Chollar at 120@117 per foot.
2 shs Hale & Norcross at 100 per foot.
72 shs Ophir at 247½@250 per foot.
12 shs Ophir at 260 per share, b 30.
75 shs Alpha, G. H., at 150@300 per foot.
50 shs Imperial at 85@86½ per share.
35 shs Imperial at 86@87 per share.
1 sh Yellow Jacket at 325 per foot, s 30.
5 shs Yellow Jacket at 340@325 per foot.
5 shs Empire Mill & M Co. at 175 per sh.
10 shs Confidence at 22 per share.
4 shs Gould & Curry at 780 per foot.
48 shs Belcher at 145@150 per foot.
10 shs Cal Steam Nav Co at 56 per cent.

AFTERNOON SESSION.

7 shs Savage at 735 per foot.
1 sh Savage at 750 per foot, b 30.
16 shs Savage at 750 per foot, s 30.
10 shs Savage at 730@750 per foot.
8 shs Savage at 735@740 per foot.
1 sh Savage at 730 per foot, s 15.
1 shs Yellow Jacket at 335 per foot.
20 shs Alpha, G. H., at 150@135 per foot.
15 shs Imperial at 86 per share.
35 shs Ophir at 252@265 per share.
13 shs Confidence at 21 per share.
24 shs Belcher at 140@130 per foot.
16 shs Gould & Curry at 810@820 per foot.
25 shs Chollar-Potosi at 115@119 per foot.
28 shs Bullion at 10@5 per share.
Amount of sales.....$142,810 00

Mining Summary.

The recent cold weather has been quite detrimental to the mining interests generally. In the placer mines the ditches in the more elevated portions of the mountains, have been very much impeded in their flow by reason of ice, and avalanches of snow and earth. During the freezing weather the amalgamating process, in placer mining, is seriously interfered with, so much so as to cause a notable loss of gold. Very few hydraulic claims in Nevada county have been worked much since the severe cold has set in. In quartz mills, where no steam is employed, the same class of troubles are met with. We append our usual summary for the week.

CALIFORNIA.

ALPINE COUNTY.—The Illinois-California company, says the Monitor *Gazette*, have commenced their new tunnel, which will cut a number of fine ledges, and fairly test the district. The General Grant company are also driving their tunnel night and day. It is now in 125 feet, and in its course will cut three of the best lodes in the district.

The same paper says that the new shaft of the Morning Star is now down 98 feet, well timbered with 4-inch plank. It is thought that forty feet more will connect it with the tunnel. The company is earnest in the desire to see the ledge in another level.

Since the departure of the defaulting superintendent of the I. X. L., the mine has been placed under the charge of Mr. C. Nelson, who has been busily engaged in putting the same into a safe condition for future working. It is said to have been badly managed of late, but will soon be all right again.

The Mountain Tunnel, in Silver Mountain district, is now in over 620 feet, and running day and night. Their new engine supplies abundance of pure air to the workmen. The regular annual meeting of this company takes place January 1st. The Pennsylvania continue work, making good headway with unusually fine prospects. The Buckeye No. 1 are pushing their shaft down very rapidly. They have had five tons of their ore worked as an additional test; the "clean-up" from which had not been announced at the latest date, but which, it was supposed, would reach something like $80 per ton. Quartz taken from a spur of Buckeye No. 2, recently run through, shows rich in ruby silver. Work is also going ahead on the Lady Franklin and George Washington.

NEVADA.—The *Gazette* says that Eureka township presents an extensive and comparatively new field for quartz prospecting. The ledges in that section are large and easily traced, but have never been opened or prospected systematically. They all contain more or less gold, and occasionally rich pockets have been found, from which large sums were taken. Messrs. Kirby and Ryan have recently discovered a rich quartz ledge, on Little Cañon Creek, near Eureka. The rock is mostly decomposed, and the ledge is supposed to be one of the richest ever discovered in the country.

The new cement mill of Hagadorn & Co., on Hunt's Hill, was completed and set in motion on Monday last. It is run by a "hurdy-gurdy" wheel, which is attached directly to the cam-shaft, thus doing away with all intermediate gearing and consequent excess of friction.

The Illinois quartz lead, located on Deer Creek, has been purchased by a San Francisco company, and a contract has been let for running a large-sized tunnel four hundred feet from Big Deer Creek to strike the ledge. The work will be under the supervision of Mr. T. Coignet, the mining engineer at the French mill. The Illinois ledge is said to be excellent, and will, no doubt, prove a profitable investment for the company.

[From a personal experience on that lead of some two years' duration, we can fully attest to the truth of the richness of this lead.]

A very promising quartz ledge has lately been discovered on Deer Creek, a short distance from this side of the Lecompton. The ledge is larger—being about seven feet in thickness—and the rock shows much free gold. The owners are busily engaged in opening it.

The owners of the Cornish mill, on Deer Creek, have struck the lead rich on their ground. They have a ledge two and a half feet thick, with three hundred feet backs. It is estimated that from this level they can take out between twenty and thirty thousand tons of rock.

I. R. Poole has struck a rich gravel lead in Wood's Ravine, running back into the hill, which it is thought will pay largely.

The work on the Union mine, under charge of Mr. Leeds, is being carried on systematically—the "dead-work," such as sinking the incline, running levels, chutes, etc., being kept well ahead—and it will soon be yielding larger quantities of ore. The change in the dip of this lode, which we spoke of some time since, was a mere local variation. It has now resumed its original dip.

The *Gazette* speaks of a shipment of 114 sacks of copper ore, weighing 150 pounds each, from the Newtown mine, in Nevada county, which was recently made from Sacramento.

The Allison Ranch proprietors, says the Grass Valley *National*, never report the products of their remarkable mine; but we learn by outsiders, who know, that the mine is paying more than ever. The rock which they are now taking out will pay from $900 to $1,000 to the ton.

The *Union* records a valuable strike on Payne's ranch, in a mine recently purchased by Messrs. George Hearst of this city, and Samuel Curtis, superintendent of the Savage mine, Virginia City. Mr. Hunt has since become associated with Mr. Hearst. The *Union* thinks the mine could not now be purchased for $150,000.

The Excelsior District.—Late reports from Summit City state that the California Company have their mill running day and night. As yet they have not cleaned up, but will in a short time. Winton's mill is nearly completed, and it will be running in a few days. There are a few mines still being worked, regardless of the storms which are quite frequent in that section at this season of the year.

The Virginia *Enterprise* gives the following list of assays from several different lodes in this district. The correctness of the assays is amply vouched for: From the Indian Boy, per ton, in Grass Valley, $67.63; Knickerbocker, do. do., $66.01; Dictator, do. do., $90; Oriental, do. do., $63; Good Hope, do. do., $59.35¾; Last Chance, do. do., $69.28¼; Pacific, do., Gold Hill, $172.32.

SHASTA.—The *Courier* gives the following accounts of the prosperity of the mines in that county:

The Highland mill has just cleaned up a half month's run on second-class rock. The result is a bar, amounting to $4,421.

The Washington company has just cleaned up a twelve days' run with ten stamps. Results, after melting and assay, $1,797.

The Live Oak company are taking out surprisingly rich rock. Other lodes have been discovered in the vicinity, and we learn that there is already some dispute about title to ground.

The Knickerhocker is progressing with splendid prospects. They had to quit work during the late storm, but have since again commenced going down. We were assured by one of the company, last Tuesday, that the rock prospects from eight to ten cents to the pound.

YUBA.—Late discoveries of quartz in and around Dogtown have raised quite an excitement, and capitalists of San Francisco are taking much interest in them. One ledge sold to a party in San Francisco for a good round sum recently. Within the past few days new ledges have been discovered, and rock assayed yielding from $18 to $44 per ton.

In Brown's Valley the late heavy rains have caused the Jefferson Company a great deal of trouble and expense. They had about seventy feet of water in their incline shaft, and their pumping arrangements not being adequate to so large a volume of water, they lost nearly three weeks in getting rid of it. To avoid a similar loss of time the Jefferson and Pennsylvania companies will use in future two instead of one pump in each of their inclines. The Donnebroge company have struck rather richer quartz than ever. The Yuba company are putting up new machinery.

CALAVERAS.—A correspondent of the Calaveras *Chronicle* says that a company of twelve miners have associated themselves together, under the name of the Union company, for the purpose of working the old Meyer & Benachmin mine, situated about one quarter of a mile from West Point. This mine was worked a number of years since, and paid well, but like many others was abandoned on account of the interference of water. The "Union Company" design working it on a large scale, and will put on a steam engine and pumps to drain it.

The last crushing made by Cummings & Hadler yielded twenty-three hundred dollars from eighteen tons of rock.

Gamble & Co.'s mine contains richer rock than any other in the district, and the lucky owners expect to realize a large fortune from it.

Barnes & Cassner have out an immense amount of rock at their mine near Skull Flat, and will commence running their mill in a few days.

The Eagle company, operating near the North Fork, have just completed a new ditch to conduct water to their mill, and their superintendent, Mr. Pine, is now in San Francisco perfecting arrangements for working their mine on an extensive scale during the present winter. Hope & Eastin, last week, struck very rich rock in the Valentine mine.

The Kentucky mine, says the *Courier*, located in Salt Spring Valley, about five miles west of Copperopolis, looks more promising than at any former period. Work is going on night and day, and the superintendent entertains hopes of soon striking a rich deposit. A number of workmen on the Union mine have lately been discharged, on account of the impossibility of getting the ore to Stockton, and large quantities of ore are accumulating in the sheds of the company. The Keystone is yielding largely. This mine adjoins the Union, and bids fair to equal it in richness if not in extent.

AMADOR.—After more than two years' labor, the owners of the Kendall copper mine, says the *Ledger*, have struck very rich ore, and in abundance. This mine is located on the Newton range, about one mile north of the works of the Newton company. The shaft has been sunk to the depth of one hundred and forty feet, at which distance they struck a vein of No. 1 ore, eight feet in width, and the specimens exhibited to us, which are an average, will yield at least twenty per cent. We congratulate the company on their success, for they richly deserve it for their perseverance.

TUOLUMNE.—Some two months since, a lead was discovered about four miles from Sonora, in the vicinity of Yankee Hill, which has turned out to be very rich. The Sonora *Herald* is informed that two or three weeks ago the owners refused $12,000 for it. There are also several other claims in the neighborhood which are far exceeding in richness the expectations of their owners.

TULARE.—Ex-Governor Wm. Bigler has made a purchase of 36 veins of De la Borde & Goguelat, at Clear Creek, for an Eastern company, for the very small sum of $75,000. In the purchase is included the Rhons, Lyon and Rochfort—all of them, says the Visalia *Delta*, rich paying lodes.

Millerton has taken a new start since the late rains, and every gulch and cañon where the color can be had, is being dug, and panned and washed thoroughly. It is surprising what a quantity of the precious metals, these numerous diggings accumulate. None of them are exceedingly rich, yet they all pay, at least in a small way, and the aggregate yield is such as to keep every class of business in a healthy condition. Steps are being taken here to convince men of capital at San Francisco that this is the route for a road to Owen's River. Mr. Stello and other men of influence, are, or have been down upon this important mission, and we all hope they will succeed, as to distance from San Francisco we have largely the advantage of Visalia, while you have the advantage as to altitude of route, yours being the lowest.

VIRGINIA CITY AND VICINITY.

Late advices speak very encouragingly of the ore in the lower levels of the Savage. It is understood that no more assessments are to be levied, and that the debts will be paid off by March next, if not before. The mine is now producing 200 tons of ore per day—more than any other mine on the Comstock.

Nearly 1,000 tons of ore are being raised weekly from the Yellow Jacket mine, yielding an average of from $29 to $30 per ton.

During the month of November 1,060 tons of ore were raised and crushed from the Crown Point mine.

During the week ending December 1st, 249 tons of ore were sent by the Chollar-Potosi to custom mills, 56½ tons first-class were sacked, 29½ tons were sold at $10 per ton, 56 at $6, and 393 at $5 per ton.

Both the lower and upper slopes of the Bajazette ground are said to look well, showing from four to five months' supply of ore in sight. Between the third and fourth stations of the old works in the Chollar, a seam of good ore has been met with on the east side.

The Empire Company's two mills are now reducing daily some fifty-six tons of ore and tailings, the former being mainly taken from the new deposit found in the upper part of the mine.

The Imperial's receipts of bullion last month amounted to some $75,000, but were not deemed sufficient to warrant the payment of a dividend.

The United States Mining company are clearing out their tunnel, and re-timbering where necessary. The tunnel is 2,000 feet in length. At about 1,200 feet from the mouth the ledge is visible, with a pay streak of two feet in width. It has the well-known Comstock "indication" of a blue clay casing for the east wall. A double shaft is sunk, some seventy-five feet east of the ledge, a distance of ninety feet. Mr. Marston expects to strike the ledge in the shaft by sinking from ten to twenty feet further.

Outside Districts.—Checks to the amount of $35,000 in greenbacks were received at Virginia City on the 7th instant, in payment to parties who were owners in the La Plata, Pioneer, and Silver-Wave ledges, located in Mountain Wells District, from a New York corporation, who, a short time since, purchased the larger part of these ledges. A mill upon them is now being built, which will cost, when finished, upwards of $100,000. Over 300 tons of rock have been taken out of these claims for crushing in this mill. From a party who has seen this ore, we are assured that it will work well by mill process. The yield will be principally in silver. In a short time a remittance of another $35,000 is expected by those interested in these mines. The entire contract for the sale of these mines amounts to $220,000. Mr. Underwood, the general superintendent of the works, has arrived in Virginia, to take charge of its affairs.

Six hundred ounces of bullion were recently received as returns from the Jersey ledge, Aetna district. The mines there are being worked with good success—the rock yielding good returns. Three mills are at work there at present, the Nevada, 10-stamps, built by a New York Company, under the superintendence of Charles H. Tompkins, now crushing rock from the Montana ledge, costing upwards of $40,000. The Webber Mill, of 5-stamps, with facilities for five more, at work on Montezuma rock, yielding very rich returns. The Chrysopolis Mill, working from a mine of the same name; this mill, is of the style called the "Alligator Crusher;" and is as yet an experiment. A fair trial will be given it, to test its practicability. The miners of the district are very much elated at their future prospects, and we think with good reason, as the rock looks well, and the returns are such as will warrant them in their belief.

The Gold Hill *News*, in speaking of districts outside of the Comstock, uses the following language: "Among the many mining districts outside of the Comstock, awaiting the aid of capital, are several on the mineral belt from Virginia City to Aurora." The same paper then speaks in high terms of the Eagle and the Genesee districts, of Douglas county. It is true that on a line from the Gould & Curry, Ophir and other rich mines of Virginia, travelling south to Aurora, and the rich ledges of Bodie, some exceedingly rich mines have been opened in the interval. The Independent and Anglo Saxon mines, both in the Genesee district, have been opened, and show fine rock; it has assayed as high as $400 to $600 per ton, and, worked by mill process, from $40 to $350. Wood and water are plenty here, and rock can be gotten out and worked in the mill for $5 75. The day is coming when the rich Comstock vein will be traced from the rich mines at Virginia and Gold Hill down south through Douglas county, by Aurora, Bodie and Montgomery, on to the rich mines of Mexico that have been worked for three centuries and have yielded thousands of millions of dollars. But capital must take hold and aid the hardy discoverer. Our friends in the East must be brought to our aid, or much of the wealth of this coast will be lost to us and them.

IDAHO.

The *Avalanche*, published at Ruby City, near by the famous Poor Man's claim, which late reports have claimed to be so fabulously rich, has come into possession of facts which the editor thinks are reliable, and which go far to establish the extraordinary richness claimed for this quartz lode. One lot of ninety-five tons gave $2,200 per ton; and another lot of sixteen tons gave a much larger yield—the exact result our informant could not give. One hundred and eleven tons gave an average of over $2,200 per ton. Admitting the above quantity of rock (in tons) was crushed and yielded an average of $2,200 per ton—the lowest sum reported—and the snug little matter of $488,400 was realized. Private letters recently received in this city also confirm substantially the reports heretofore published.

The tin ledge recently discovered has been named "Cornwall." The ledge lies between Jordan creek and Saw Pit gulch. Mr. Vass has made three tests in new crucibles, and each trial resulted in a quantity of metal which he confidently pronounces tin. Mr. Coleman and Mr. Dalton each carried samples of the ore to New York for perfect tests. The ledge is large and the owners believe they have a big thing.

The Portland *Oregonian* says that next spring there will be fifteen quartz mills in operation at Owyhee, from which large returns may be expected another year.

THE MINES OF UTAH.—The Salt Lake *Vedette* says that two (one a blast and the other a reverberatory) furnaces are now running at Stockton, thirty-eight miles from Salt Lake City, with good results. The argentiferous galena that is being worked yields 30 per cent. of bullion, and the bullion sixteen hundred dollars per ton, in gold and silver. All we require, says the *Vedette*, is capital and practical workmen, to demonstrate that the Utah mines are the most profitable in the world.

Mechanical.

A NEW HAY AND COTTON PRESS.

Mr. B. F. Dunning, nf Gulesburg, Ill., hns recently invented and patented a powerful press, designed for packing hay, cntton, etc., which is attracting considerable attention among mechunics and all interested in the production of hulky articles requiring great compression in preparing thom for transportation. The machine is known ns "The Americnn Telegraph Hay and Cottnn Packer." It is described as a long frame, with hny boxes nt each end, into which the hay or cotton is fed by two long rollers arranged above each other, and moving up and down in reverse direction, eo as to drnw the materinl through between tho rollers, forming continuous nnd regulur sheets. In the centre of the press is a wedge, which is raised by horso-power to the proper hight, when it drops on friction rollers applied to followers bearing directly on the volume of hay in ench box of the machine, pressing it horizontnlly by the combined powers of the incline plano and falling weight—the two most powerful agencies known in mechnniem. A working model of the iuvention wns recently subjected to a prnctical test, at the store of Greenbaum & Co., on Randolph street, Chicago, where a large number of ecientific nnd prnctical gentlemen were present, by invitntion, tn witness its opcration. All present united in pronouncing it one of the most effective and nseful machines of the kind ever introduced to the public. The hay pressed by it, nn being sawed asunder, presents faces nlmost as solid and emooth as wood. The machine is exceedingly simple in ite construction and operation, and is cupnble of turning out half a ton of hny ineide of six minutes.

It is claimed for Mr. Dunning that he has been successful in eolving the problem of bringing the falling wedge into mechanical nse in a proper manner, and on a principle which cannot fail to prove eminently useful in other classee of machinery. One great advantage claimed for it is the fact that it can be readily set up anywhere, without the aid of expeneive framework, like most other presses in use. We nnderstand the press will soon be introduced into California.

A Bread Cutting Machine.—Mr. Thomas Schofield, an ingenious mechanic of Sacramento, exhibited to us, a few days since, a conveuient and ingenious machine for cutting brend. The frame work of the machine consists of two standards properly supported, and constructed of boards about ten iuches broad, divided longitudinally, from the top to near the bottom into slats, the thickness at which it is desired to ent the slices. The loaf is introduced between these standards, supported on a frame work, and held firmly in place. A set of knife-bladee, similar to the ordinary butcher's saw-blade, is secured in a frame, at such distances apart, that each blade will pass between two of the aforesaid slats. By drnwing this frame back and forth, as if cutting witb a single knife, each of these blades ie made to pass through the loaf simultaneously; thus cutting up the entire loaf in about the same time that is ordinnrily occupied in cutting a single slice. Of course, there must be as many blades as it is necessary to make cuts in the loaf. The machine ie exceedingly simple, cheap, and effective, and its use must save a large amount of labor in large hotels, restaurants, etc. The inventor will vieit the different hotels and restaurants in the city, for the purpose of exhibiting the machine and its work, with the view of introducing it into use. A patent for the same has beeu applied for.

A Foundry for Austin. — Austin, Recse River, is to have a foundry. The building for the same has already been erected and the necessary machinery, including a small steam engine.

A Large Pump.—At the Brooklyn Navy Yard they have an engine to pump the water out of the dry dock, which throws 1,000 gullons at each etroke, and it makes 12 strokes a minute.

An Important Invention.—Our nttention has been called to an invention, recently made in this city, of a preparation for preserving wood, by a simple process of injection, whereby it is claimed that it is cheaply rendered almost imperishable, and so hard as, in many enses, to make it serviceable in place of iron. When prepured after this process it is thought by the inventor that it may even be employed for railroad tracks, and that it will resist abrasion fully as long as iron so used. We understand that experiments are still in progress for testing the valne of the invention, of which we shall speak further and more particularly at an early day.

A Spiral Railroad.—Quite an important mechanical feat is in progrees of accomplishment nt tbo great iron ore mountain, in Cornwall, Eng. This work consists of a spiral road which starts from the level of the Cornwall railroad, nnd revolves around the mountain, being carried along, in many places by trnstlework, or heavy embankments, and sometimes through deep cuts made through the ponderous and solid bodies of iron ore, until it reaches the very top of the mountain. A powerful locomotive has been obtained to move the trains. The spiral portion of the road will be something over two miles in length. We have no information of the gradient to be overcome.

Iron and Steel Manufacture.—The value of iron and steel manufactures in this country is estimated for the year ending June 30, 1864, as follows:

Railroad	$21,429,225
Bar	27,171,459
Sheet and plate	9,235,260
Nails, spikes, etc.	10,445,550
Castings	25,491,100
Machine engines	2,181,140
Steel, and manufactures of	12,151,500
Miscellaneous iron manufactures	63.035 390
Total value of iron and steel	$180,140,615

On this aggregate value the direct tax actually paid wns $3,882,546. It is thought that the tax on income and the various taxes on coal and other adjuncts of the iron manufacture would at least double this sum. The census of 1860 enumerates thirty-six establishmente for the manufacture of bar, sheet, and railroad iron in the Middle States in 1860, with an invested capital of $2,037,850; the cost of raw material aunually is stated to have been $2,615,941; the number of male hands employed, 2,436; cost of labor, $835,656; and annunl valne of products, $6,868,700.

The Pocket Sewing Machine is the latest improvement in that line. This neat little instrument is now extensively advertised at the East. It is specially adapted to quilting, embroidering, and braiding. When used, it is held in the left hand, and moved along over the cloth, which must be confined in a frame. The machine is worked by the right hand, by means of a small crank. Instead of passing the cloth along the machine, as is done in the larger ones, this machine is passed aloug the cloth, thus reversing the order of work.

Be Happy at Your Work.—Give me the man who sings at his work! Be his occupation what it may, he is equal to any of those who follow the same pursuit in silent eullenness. He will do more in the same time—he will do it better—he will persevere longer. One is scarcely sensible of fatigue while he marches to music. The very stars are said to make harmony as they revolve in their spheres. Wondrous is the strength of cheerfulness—altogether past calculation its powers of endurance. Efforts to be permanently useful, must be uniformly joyous, a spirit all sunshine—graceful from very gladness—beautiful because bright.

Massachusetts.—It is doubtful if any other State in the Union has done so much for the cause of labor as has Massachusetts. It was there that the old system of "perpetual work and sleep" received its first check; it was there that the overtasked factory operatives received their first curtailment of the hours of labor, and it was there that the present eight-hour movement was inaugurated. The enthusiasm manifested by the leading men of the State upon the latter subject is quite characteristic. When the question of legalizing eight hours as a day's labor came before the Massachusetts Legislature, last winter, it received the earnest support of the ablest men in that body; and since that time many of the most eminent statesmen in that State have allied themselves with the movement.—*Va. Union.*

Scientific and Mechanical Facts.—The power derived from a pound of coal equals that from the decomposition of nine pounds of zinc in a galvanic battery.

Melted snow produces about one-eighth its bulk of water.

A locomotive driving-wheel, six feet in diameter, makes 280 turns in running a mile.

Britannia ware is an alloy of 85½ parts tin, 10½ antimony, 3 zinc, nnd 1 copper.

An nlloy nf 3 parts tin, 5 lead, nnd 8 bismuth, melts at less thun 212 degreee of heat, which is the temperature of boiling water.

In the manufacture of Whitworth's standard guages, the workmen meusure to the twenty-thousnndth part of an inch.

Spring steel is made in New Jersey, which bears 142,500 pouods per square inch, and an extension of 1-258th of its length, without permanent change, nfter the set of the first trial. This extensibility is less, but the strength is much greater than is elsewhere reported for steel of spring temper by reliable authorities.

At the mines of Traversella in Savoy, magnets revolving on a wheel are used to pick up the powdered ore, leaving the copper-pyrites behind.

The four armor-coated war ships, named by the London *Times* "Rams," are to have iron side-plntes four inches thick, which experiment has proved cupable of resisting shot. The vessels are to be 20 feet longer, and 15 feet broader than the Persia, and are intended to steam 14 knots.

The manufacturers of Troy have, by mixing different irons, produced one that will resist a tensile strain of 100,000 pounds per square inch of section, 60,000 pounds is considered about the average of good iron.

Pittsburgh Steel.—The correspondent of the Missouri *Democrat*, having visited the tool manufacturing works of William Sellers & Co., and the Baldwin locomotive works, in Philadelphia, writes thus on the subject of Pittsburgh steel: "While here (Sellers & Co.'s,) as well as at the Baldwin locomotive works, I made inquiry concerning the use of the Pittsburgh steel we saw in that city. The Baldwin's manager informed me that they used it, liked it, and thought it as good as the best English steel; and Sellers & Co., require the very highest standard. The very best superfioe is demanded for making machine tools, and young Mr. Sellers told me they used large quantities of Pittsburgh eteel, and liked it. They sometimes found fault with its uniformity, but not enough to give English steel a preference. This is the very highest sort of testimony, as the parties just named have no object in praising American steel, and merely speak of it as business men of practical experience."

A New Ladder.—An interesting trinl was made lately, in the spacious courtyard of the Archinto Palace, at Milan, with what the inventor, Paolo Porta, calls an "air ladder." It consists of several pieces, which, a sort of carriage as a basis, can be fixed one on top of another. A hight of 90 feet, was thus reached in a very few minutes. The apparatus may be bent down to an angle of 45°, and is capable of carrying heavy weighte. The principle, it is stated, can be adapted to portable bridges, which can be put together in an equally short time.

Nominal Horse-Power of High-Pressure Engines.—Multiply the square of the diameter of the cylinder in inches by the pressure on the piston in pounds per square inch, and by the speed of the piston in feet per minute, and divide the product by 120,000; the quotient is the power of the engine in nominal horse-power. If the pressure upon the piston be 80 lbs per square inch, the operation may be abbreviuted by multiplying the square of the diameter of the cylinder by the speed of the piston, and dividing by 1,500, which will give the same result.—*Bourne.*

A platinum wire of the 13th of an inch will suspend 274 pounds.

Lightning.—Fig trees and cedars are rarely struck by lightoing; the beech, fir, larch and chestnut are obnoxious to it; but the trees which ntract it most are the oak, yew, and Lombardy poplar, whence it follows that the latter are the trees most to be placed near a building, since they will serve as so many lightning rods. Again, the electric fluid attacks in preference such trees as are verging to decay by reason of age or disease.

Phosphate of lime nnd magnesia, in small quantities, are found in the ashes of all common plants; but they form from one-half to three-fourths of the ashes of wheat, and a very large portion of the ashes of other grains.

To Gild Steel.—Apply an etherial solution of Gold. This is equally adapted to lettering, as wholly covering the object. It may be applied with a pen, or otherwise.

MINING AND SCIENTIFIC PRESS

PATENT AGENCY.

For the Pacific Coast.

Office of the Mining and Scientific Press—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The first question that presents itself to the inventor, who desires to procnre a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention mentioned in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, no fee of the fifteen dollars or the twenty dollars is demanded. English, French, Austrian, Prussian Spanish, and Inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only exception to this rule made is as regards subjects of powers that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending all the business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues. If the application is rejected we a cause thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, we have excess to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patents properly prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a matter. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimensions; it should be neatly made of hard wood or metal, or both, varnished or painted; the name of the ventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expresses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as rnpidly as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and return, with a power of attorney, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued, the Government fee, namely twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procnre a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of clients, the time is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance. For the sake of uniformity and convenience, the remaining fees will be required to be paid in the same manner; that is to say, before the labor is performed for which they are to be received in payment.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 yrs and 6 mos	$10
On every application for a design, for seven years	15
On every application for a design, for fourteen years	30
On every application for a patent, for seventeen years	15
On every caveat	10
On issuing each original patent	20
On filing a disclaimer	10
On every application for a reissue	30
On every additional patent granted on a re-issue	30
On every application for an extension	50
On the grant of every extension	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C.	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

DEWEY & CO., Agents,

Mining and Scientific Press Office, No. 505 Clay street, corner of Sansome, San Francisco.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides and the evidence of any error which may appear will be received in friendship and treated with respect.

American and Foreign Patents.—Letters Patent for inventors can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the credit system.

San Francisco:
Saturday Morning, Dec. 16, 1865.

A State Mining Convention.

Pursuant to the request of several mining journals and representative mining individuals, the association known as the "California Mining Bureau," of San Francisco, through their Board of Trustees, have issued the following call for a Mass Convention of the miners of California:

RESOLVED, That a Mass Convention of the miners of the State of California, be and is hereby called to assemble in the city of Sacramento, on WEDNESDAY, the 17th of January, A.D. 1866, at 12 o'clock, and that any person engaged in actual mining operations shall be eligible to a seat in said Convention.

JOSEPH W. LOW, Vice-President.
J. B. WHITCOMB, Recording Secretary.
San Francisco, December 6, 1865.

RICH SPECIMENS OF COPPER.—We have received from Messrs. Kepler & Mack, a small box of very rich specimens of copper ore, from a vein recently discovered in Mono county, near Mono lake. The ore consists of red oxide, sulphuret of copper, copper glance, and native copper, and is exceedingly rich. Notwithstanding the mine is located at such a great distance from a market, if ore anything near as rich as that sent can be obtained, it will pay to transport it to San Francisco; or if charcoal can be made reasonably cheap in the immediate vicinity of the mine, that character of ore may be very readily run into matte of a very high percentage of assay, which will greatly cheapen the cost of transportation. Our correspondents, who own one-half of the vein, inform us that they already have several tons out, as rich as the samples sent, and that preparations have been made to continue the work of development, already begun, through the winter. The vein is thus far from four to eight feet thick, and very favorably located for being worked. We shall be pleased to hear from them again as the work of development progresses.

HEAVY ITEM OF EXPENSE.—The Gold Hill *News* gives some interesting figures with reference to the cost of wood in running the mills and machinery at Washoe. It says that to run the mill of the Gould & Curry company, it requires thirty cords per day, and for the machinery of the company at the Bonner shaft, six cords, making thirty-six cords, or about 13,000 cords per year. It estimates the average cost to be $15, making a consumption by this company, of $200,000 worth of fuel in each year. Upon this basis it estimates the quantity of fuel consumed by the mines and mills around there, at 200,000 cords per annum, creating an expense of $3,000,000. The price of wood, as suggested, might be greatly reduced by the construction of a railroad to the Sierras, and we may add, by the completion of the proposed flume from Alpine to the Carson river.

MR. DONGE, the present manager of the Fremont Grant, is removing the machinery of the Mount Ophir works to Bear Valley, where it will be put in order for crushing rock from the Josephine mine.

IMPORTANT ADVANCE IN THE PRICE OF COPPER.

The troubles in Chile, as we predicted some weeks ago would be the case, have produced a most important advance in the price of copper. Telegraphic advices from London up to November 20th, report this advance to be $150 per ton since the first of October. Sales of copper were made in Liverpool, October 16th, at $396.88; one week later, October 23d, it was quoted at $416 24; on the 3d of November, our latest dates by mail, it was selling at $464.64. We have not the selling price at hand for November 20th; it was $150 advance, however, of the quotations of October 1st.

At latest New York dates, manufacturers at the Eastern States were buying more freely than for the previous two months, in anticipation of still further advances; but no stocks were accumulating. The market was firm with a rising tendency, with but little foreign copper in the market.

Previous to the late complications between Spain and Chile, copper had dropped to a very low standard, and the subsequent advances which have been caused by these troubles will meet with but comparatively small recession when the news reaches England of the late more peaceable complexion which political matters have assumed in that quarter. California will therefore reap a permanent benefit from these troubles, in the enhanced value of copper, which will be sensibly felt in the percentage price of her ores.

MINING CORPORATIONS.—We would call the special attention of our readers to an article on the "Past, Present and Future of our Mining Interests," which will be found on the second page of the present issue. We have not space to give the article entire this week; that portion relating to the savings which may be made in reduction and general management, will appear in our next. In the meantime we recommend for the serious consideration of all interested (and who in California is not either directly or indirectly interested therein), that portion of the communication of Prof. Rowlandson, which refers to the Constitution, By-laws and general management of incorporated mining companies. We do not understand that the Professor recommends the introduction of the Cost Book System as an entirety; but he gives the main features of it as affording reliable suggestions, which may be of service in arriving at the necessary legislative modifications of our present mining laws, which all admit to be a matter of the utmost importance, nay, of absolute necessity. Whether placing the general management of our mining companies directly into the hands of the stockholders at large, would be better than throwing proper safeguards around the action of Trustees, is a matter for careful consideration. The difficulties attending the latter course are apparent to all; and the possibility of obtaining intelligent action from a large mass of stockholders, who generally know next to nothing of what they are endeavoring to manage and direct, is also a matter for grave consideration. We trust such discussion will be had in the premises, through the public press and at the approaching Convention, as will lead to efficient, wise and practical legislation.

A PARTY of surveyors are marking out a road from Montana to the mouth of the Mussell Shell river, on the Missouri, and expect to obtain goods that way next summer. If our San Francisco merchants would take the matter seriously in hand, a communication could be opened up between this city and Montana, *via* the Colorado river, which might eventually be worth millions, annually, to the trade and mechanical industry of this city. Montana is destined to become one of the richest States in the Union.

MINING IN VIRGINIA.—There are two thousand miners at work in the gold mines at Goochland and Louis counties, Virginia. They make about a dollar and sixty cents a day, out of which must come their board and other expenses.

BANCROFT'S CATALOGUE OF SCIENTIFIC BOOKS. We have received a copy of Bancroft's Catalogue of scientific books for 1865. The entire collection represents 2,505 different works, varying from one to eighty-eight volumes each. The entire collection is divided into twenty-one groups, and those groups subdivided into seventy-three distinct classes. Much care and judgment has been displayed in methodically arranging and classifying this large collection of scientific publications. The work is so well done that the reader can turn to any department of science, to the extent of seventy-three classifications, for authors upon the subject in regard to which he may be seeking information, or for a book he may wish to purchase. This model catalogue has been arranged by Mr. W. H. Knight, the efficient manager of the subscription department of this extensive firm. This large collection of different works in the single department of science, may afford the reader some idea of the immense aggregate collection of books, which is to be found upon the shelves of Bancroft & Co.—a collection larger and more varied than can be found in any other bookstore on the continent. In making up the catalogue, great pains has been taken to convey, in the most concise manner, the fullest information consistent with such a compilation with regard to each work enumerated. The book is first named, by title, then follows the announcement of its illustrations with the number of maps or plates, if such there are; then the style of the volume, the character of its binding, number of volumes, place and date of publication, price, etc. This full reference renders the catalogue especially valuable to purchasers from a distance, who may wish to send for books; they will know just what to send for and the price and style of the work, etc.

A SOUTHERN PACIFIC RAILROAD.—Hon. T. G. Phelps, and others, filed articles of incorporation on the 2d inst., for a line of railroad to run from San Francisco to San Diego, thence to the eastern line of the State of California, there to connect with the road of another company, which will continue it onward to the lower Mississippi river. Capital, $30,000,000; line of route in this State 720 miles.

Active measures are also being taken to commence the construction of a northern railroad from the upper waters of the Missouri to the upper waters of the Columbia; the length of which will be much less than either of the other two. Each of these roads will doubtless be wanted within a few years, and each will add vastly to the development of the sections of country through which they may pass; but it is to be regretted that the efforts of capitalists and men of influence cannot be concentrated upon one road first, until that is completed. The undoubted success which would attend the construction of the first one opened, would greatly hasten the construction of each of the others.

LOOKING ABOUT.—The Nye County *News* says that Mr. J. E. Clayton, the geologist, accompanied by Col. Rust and Mr. George Clink, an English gentleman, recently made quite an extended tour through the Twin River mines. These gentlemen entertain a good opinion of the District, and design shortly returning to give it a more careful and complete inspection. Col. Rust has entered into negotiation for certain mines in Twin River, amongst the number being some of the best claims there, and may possibly contract for others, if he can procure them on terms to suit him. This gentleman has also made an examination of many ledges in the vicinity of Dayton, and will be very likely to make a purchase of some of them on account of parties at the East.

THE MONTANA MINES are attracting considerable attention at the present time. Persons who have visited them recently speak very highly of them, and there will, doubtless, be a very large emigration thither another season. Montana draws the chief part of her supplies from Chicago and other Eastern cities. A nearer and more direct communication might be opened up with San Francisco, *via* the Colorado.

THE MINING SHARE MARKET in this city has met with a noticeable decline during the past few weeks, which reached nearly all the leading stocks on the list. A slight improvement was noticed on Wednesday; but not sufficient to stay the panic which appears to have seized upon nearly all the dealers in the market. The most noticeable falling off was in the Alpha, which fell from $635@$640, our quotations of last week, to $135@$150 for this week. No reason whatever is assigned for this stampede, and probably no valid one exists. The receipts of treasure for the week have been $875,000, making an aggregate of $2,425,000 for the past fifteen days. The product of Nevada shows a slight falling off during the past thirty days; but this decline has been more than made up by increased receipts from the north coast, and from the interior of this State.

EARTHQUAKE AT SEA.—The bark Live Yankee, which arrived at Portland on the 13th inst., reports that when at sea, on the 26th of November, on her voyage from this city to Portland, she experienced the effect of an earthquake, which was sensibly felt, jarring the ship, and making the rigging tremble considerably for a moment.

ALLEGED ILLEGAL STOCK SALE.—Charles L. Stone has commenced suit in the Fourth District Court against the Mount Vernon Gold and Silver Mining Company, to compel the defendants to transfer 100 shares of stock to plaintiff, which were assigned to him by Silas L. Stone, Jr. The stock in question was sold for delinquent assessments and purchased by J. W. Mandeville, for the company, which sale plaintiff claims to be illegal.

MAMMOTH GOLD NUGGET.—The Salt Lake *Union Vidette* has been shown a gold nugget which weighs 178¾ ounces, or nearly thirteen pounds avoirdupois, and worth there, in greenbacks, $3,871.50. It was taken, a short time since, out of Snow Shoe Gulch, thirty miles from Helena, Montana Territory. It was purchased by Tutt & Donnell, merchants of Montana, who are sending it on to one of their firm at present in New York.

THE eastern end of the Pacific Railroad has been completed as far as Lawrence, Kansas, a distance of about 1,300 miles. There is now uninterrupted communication, by rail, between the capital of the nation and the capital of the youngest State but two in the Union. It is expected that by July the road will be extended as far as Fort Riley.

Two meteorologists, the brothers Blatter, have just taken up their residence for one year in a small building on the Teodola mountain, one of the Alps, at an elevation of eleven thousand three hundred and sixty-seven feet above the level of the sea, or three thousand three hundred feet higher than the St. Bernard, for the purpose of making meteorological observations.

OBSTRUCTIONS TO NAVIGATION.—The steamer Chrysopolis, on her way down the river, on Thursday last, grounded upon a newly formed sand bar, about two miles below Sacramento. When the steamer left Sacramento the river was twelve feet above low water mark, and the grounding, under such circumstances, shows that a rapid accumulation is going on in that river, which augurs badly for the future of its navigation.

TO CORRESPONDENTS.—"Gold-Bearing Sulphurets and their Reduction," by "A Student of Metallurgy," will appear next week. "The Age and Formation of Metal-Bearing Rocks," by "F. A. H.," is received and will appear. The proceedings of the "Mass Meeting of Miners at Summit City" will appear next week.

INSTITUTE BALL.—The ball given by the Mechanics' Institute, on Thursday evening, is generally conceded to have been a very pleasant party, about six hundred ladies and gentlemen being present.

GEN MCCLELLAN and family are now in Brussels.

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, December 16th, 1865.

There is a slight increase in the amount of capital offering for loan purposes, but the demand on such securities as the bankers are willing to accept is rather lighter than usual. Business requirements are moderate, and good mercantile paper is readily taken at 1¼@1½ ₱ cent. per month, with occasional transactions at lower rates. The serious depreciation in all mining stocks has nearly annihilated their availability as a collateral, but some loans are still made to parties in fair credit upon this description of security at 1½@2 ₱ cent. per month.

Receipts of treasure from domestic sources, since Saturday last, amounted to $875,000, making an aggregate of $2,425,000 since the 30th ult. The product of Nevada, during the past thirty days, shows a slight falling off; but this decline is more than made up by increased receipts from the North coast, and the interior of this State.

Bullion is in good supply, and the market for the steamer of next week has not yet opened. Gold bars have been taken to account this week by dealers at 840@850, and silver has ranged at par to ½ ₱ cent. premium, for bars of average fineness.

The mining share market experienced a fresh stampede early in the week, and with scarce an exception, every stock on the list declined seriously from the prices ruling last week. A slight rally took place in some stocks on Wednesday, and since then this improvement has been in some degree tolerably well maintained. A thorough fright seems to have seized upon nearly all dealers, and it is useless at this juncture to speculate upon the causes which have led to the present demoralization of the market, or to predict what the future may evoke.

City stocks, for the most part, are steady, but inactive, at quotations: Spring Valley Water has improved, and is inquired for at $56½ ex-dividend; California Steam Navigation steadily declined from $62 to $50, seller 30, then sold at $56, and closed at $55 bid. No dividend will be paid for the month of November.

Gould & Curry was dealt in to the extent of 62 feet, receding from $950 to $700, rallying to $830, and closing at $820. The annual reports of the officers of this company to be presented to the stockholders on Monday next, are likely, we think, to prove more satisfactory than is generally anticipated. The receipts from all sources during the year amounted to $2,395,000, including $82,000 for tailings sold. The company's mill produced $1,563,000 in bullion, and the yield of ores crushed at outside mills amounted to $749,901. The superintendent estimates the different bodies of ore in the upper levels at 30,000 tons, and worth at least $40@$45 per ton.

Savage has been active, and 247 feet were sold, advancing to $750, receding to $615, rallying to $700, and selling yesterday at $735@$740. Advices from this mine continue exceedingly favorable. For a week past 150 tons of ore have been hoisted to the surface daily, and different mills are reducing 130 tons per day. The ore from the large deposits found in the lower level will, it is thought, average $75 per ton. Receipts of bullion thus far the current month have exceeded $50,000.

Alpha has been dealt in within a range of $600, buyer 30, and 130 cash, closing at $135 asked. Yellow Jacket declined from $345 to $200, seller 30, rallied to $300, receded to $225, seller 30, and $250 cash, closing at $335, assessment delinquent. Within this range some 259 feet were sold. The bullion product of the mine last month exceeded $99,000, but owing to the disbursement of $31,694.24, for current expenses, the aggregate debt of the company was increased to $14,864.33, and amounted to $305,542.01 November 31st, less $120,000 to be derived from the present assessment.

Crown Point declined from $515 to $380, rallied to $440, and sold yesterday at $460@$455. During the week ending December 10th, 322 tons of ore were raised to the surface, 44 tons of which came from the east stratum of the 300-feet level. The different inclines from the 230-feet level are said to look well. The aggregate debt of this company now amounts to $70,000.

Ophir fell from $340 to $200, seller 30, rallied to $250, and was dealt in yesterday at $260@265. During the month of November 950 tons of ore were sent to the Woodworth Mill, and the average product of the mine is now some 30 tons per day. The indebtedness of the company is at present less than $50,000. The annual meeting takes place on the 20th instant.

Chollar-Potosi has been exceedingly active, and some 900 feet changed hands, dropping from $169 to $110, advancing to $130, and selling yesterday at $117@$119.

The bottom of the Bajazette Ground has considerably improved recently, and now discloses a seam of ore some 15 feet in width. The new shaft has attained a depth of 505 feet, and the drift is in some 25 feet. During the week ending December 10th, 262 tons of ore were sent to custom mills, and 74 tons were sold at $5 per ton.

Empire Mill and Mining Company has been dealt in within a range of $180 cash, and $160, closing at $175. The annual meeting of this company will be held on the 20th instant.

Belcher has been active at much lower rates, and some 50 feet were dealt in, declining from $265 to $125, rallying to $145, and selling yesterday at $150@$130. We can learn of no new developments in this claim.

Bacon Mill and Mining company has been inquired for at $110 per share. During the month of November, 1,357 tons of ore were taken from the mine, yielding about $33,000, or an average of $24 per ton. The current expenses were some $21,000, and we are informed that a dividend will probably be declared for the month of December. It is stated that between the 3d and 4th stations there are some 2,000 tons of ore in sight, and within 60 days the 5th level will be opened 70 feet lower down on the slope of the ledge some 100 feet of stopes.

Hale & Norcross fell from $170 to $100, rallied to $120, and sold yesterday at $100. Confidence declined from $40 to $20, and then sold at $22.

Imperial declined from $106 to $77, seller 30, rose to $92, and was dealt in yesterday at $87@$86—some 1,300 shares changing hands. The first clean-up this month exceeded $14,000, and the aggregate product of the mine for the month promises to equal that of November. We can learn of no new feature in the appearance of the lower level.

Overman steadily declined from $28 to $8, then sold at $8¼, and closed at about $7. Bullion fell from $24 to $13, and sold yesterday at $12½@5. Sierra Nevada was dealt in at $9@6½, and North American at $3½@3 per share.

The aggregate sales of Stocks, since Saturday last inclusive, amounted to $865,397.

San Francisco Stock and Exchange Board.

SAN FRANCISCO, December 16, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ —	$ 74
Gov. Legal Tender Notes	87½	88
State Bonds, 7 ₱ cent.	88½	..
San Francisco 10 ₱ cent.	..	..
San Francisco Bonds, 1855, 6 ₱ cent.	70	..
San Francisco Bonds, 1858, 0 ₱ cent.	65	..
Sacramento City Bonds, 0 ₱ cent.	..	..
Sacramento County Bonds, 8 ₱ cent.	80	..
Marysville Bonds, 10 ₱ cent.	..	..
Stockton Bonds, 10 ₱ cent.	..	..
Yuba County Bonds, 10 ₱ cent.	..	77½
Butte County Bonds, 10 ₱ cent.	..	80
California Navigation Co.	56	57
State Telegraph Stock	20	..
San Francisco Gas Co.	103	105
Sacramento Gas Co.	..	75
Spring Valley Water Co.	58	58
RAILROADS.		
Sacramento Valley Railroad	..	
Omnibus Railroad	44	45
Central Railroad Co.	..	..
North Beach and Mission	43	46
MINING STOCKS.		
Ophir	$ 255	$ 280
Gould & Curry	780	790
Empire M. & M. Co.	....	....
Sierra Buttes Quartz Co.	....	....
Central	....	....
California	....	....
Savage	736	740
Chollar-Potosi	117	118
Hale & Norcross	100	105
White & Murphy	....	....
Sierra Nevada	7	8½
Daney	..	10
Burning Moscow	..	..
Lady Bryan	..	..
Sacramento & Meredith	....	....
Buraside	....	....
Iowa	....	....
El Dorado	....	....
North American	....	....
Baltimore Americaa	....	....
Yellow Jacket	350	352
Overman	8	9
Cedar Hill Tuaaei	....	....
Wide West	1	2
Crown Point	480	485
Antelope	....	....
Emeralda	1	5
Ætna	....	....
Real del Monte	..	15
Silver Hill	....	....
Utah	....	....
Justis	....	..
Josephino	....	....
Mina Prieta	....	....
Napoleon Copper Co.	....	....
Mclones and Staaislaus	....	....
Sheba	....	....
De Soto	....	....
Pride of the West	....	....
Bullion, G. H.	13	15
Buckeye	....	....
Dick Sides	....	....
Imperial	87	88
Alpha	150	155
Bajazett	..	....

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 50 @ 7 00
Do Superfine	8 25 @ 6 75
Corn Meal, ₱ 100 lb	@ 3 50
Wheat, ₱ 100 lb	2 00 @ 2 05
Oats, choice, ₱ 100 lb	1 50 @ 1 85
Barley, ₱ 100 lb	1 05 @ 1 10
Beans, ₱ 100 lb	2 25 @ 3 50
Potatoes, ₱ 100 lb	1 00 @ 1 30
Hay, ₱ ton	15 00 @19 00
Live Oak Wood, ₱ cord	8 00 @10 00
Beef, on foot, ₱ lb	6@ 7
Beef, extra, dressed, ₱ lb	12½@ 15
Sheep, on foot	1 00 @ 2 00
Hogs, on foot, ₱ lb	9 @ 10
Hogs, dressed, ₱ lb	14 @ 15
Groceries, Etc.	
Sugar, crushed, ₱ lb	18½@ —
Do China	10 @ 12½
Coffee, Costa Rica, ₱ lb	27½ @ —
Do Rio	20 @ —
Tea, Japan, ₱ lb	85 @ 95
Do Grcea	70 @ 90
Hawaiiaa Rice, ₱ lb	10 @ —
Chiaa do	8 @ 10
Coal Oil, ₱ gal	1 16 @ 1 25
Caadies, ₱ lb	24 @ 28
Ranch Butter, ₱ lb	55 @ 75
Isthmus do	35 @ 42½
Cheese, California, ₱ lb	20 @ 28
Eggs, ₱ doz	80 @ 70
Lard, ₱ lb	24 @ —
Ham aad Bacon, ₱ lb	25 @ —
Shoulders	20 @ 22
Soap—Pale & C. O	10 @ 13
Castile	12 @ 13

San Francisco Retail Prices Current.

Butter, California frosh ₱ lb	80@ 90
do pickled ₱ lb	65@ 75
do Orcgon	40@ 50
do New York, ₱ lb	40@ 50
Cheese, ₱ lb	25@ 35
Honey, ₱ lb	30@ 40
Eggs, ₱ doz	75@ —
Lard, ₱ lb	23@ 25
Hams and Bacoa, ₱ lb	28@ 30
Cranberries, ₱ gal	76@ 1 00
Potatoes, sweet, ₱ lb	2@ 5
do Irish, ₱ lb	1@ 2½
Tomatoes, ₱ lb	5@ 8
Onions, ₱ lb	6@ —
Apples, No. 1, ₱ lb	4@ 10
Pears, table ₱ lb	3@ 10
Plums, dried, ₱ lb	15@ 25
Peaches, dried, ₱ lb	16@ 25
Grapes, ₱ lb	5@ 15
Oranges, ₱ doz	75@ 1 00
Lemons, ₱ doz	1 00@ 1 50
Chickens, apiece	62@ 1 00

A DIAMOND FROM NEW MEXICO.—The Black Hawk (Colorado) *Journal*, of November 28th, says that a man hailing from New Mexico, was recently exhibiting in that town a large diamond, which he claimed to have found in New Mexico. He said the jewelers in Denver priced it as high as $700, which was probably about one-tenth its value.

TREASURE FROM THE NORTH.—The Sierra Nevada arrived from Portland on Thursday, bringing treasure to the amount of $261,828. The telegraph reported that she sailed with $330,000.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Adams, Potrolcum, $5		Jan 11	Jan 25
Agawam, Nye co., Nev.		Annual Meeting, Jan 13*	
Agawam, Nye co., $1		Jan 13	Jan 27*
Alhambra, Lyon co., Nev., $1.50		Dec 9	Dec 22
Alban, Storey co., Nev., $1		Jan 9	Jan 20
Arroyo Seco, Amador co., $4		Jan 3	Jan 17
Baltimore American, El Dorado co., $2		Dec 20	Jan 3
Boe S. M. co		Annual Meeting, Dec 22	
Bostoa, El Dorado Co., 50c		Dec 22	Jan 6
Buckeye, Lyon co., Nev., $3		Jan 3	Jan 20
Bullion, $10		Levied	Nov 25
Bunker Hill, Amador co., $5		Jaa 6	Jan 20*
Bolcher		Annual Meeting, Dec 18	
Blue Ledge, El Dorado co., $1.50		Jan 13	Jan 27*
Chipionena, Sonora, Mex., $5		Dec 2	Dec 16*
Caledonia Tunnel, Gold Hill, Nev., $2		Dec 11	Dec 21
Cole, Storey co., Nev., $1		Dec 21	Jan 6
Chicago, Lander co., Nev., $2		Dec 30	Jan 15*
Crown Load. Mariposa co., $6		Dec 30	Jan 15
Colorado		Annual Meeting, Dec 20	
Daney, Lyon co., Nev., $1		Jan 15	Jan 31
Eagle, Amador co., 75c		Nov 25	Dec 14*
Exchequer, Storey co., Nev., $2		Jan 17	Feb 1
Empire M. & M. co		Annual Meeting, Dec 20	
Florida, Reese River, $10		Jan 2	Jan 15
George Washington, Alpine co., $1		Dec 9	Dec 26*
Golden Bulo, Dividend		Payable Oct 20	
Gold Hill Tunneling, Storey co., Nev., 75c.		Dec 15	Jan 3
Guasaparis, Chihuahua, Mex., $10		Dec 7	Dec 23
Goodwin, Lander co., Nov., $2		Dec 16	Dec 30*
Hale & Norcross, Storey co., Nev., $25		Jan 15	Jan 29
Honest Miner, Lander co., 50c		Jan 13	Jan 29*
I. X. L., Alpine co., $3		Jan 2	Jan 16
Hanscom Copper		Annual Meeting, Dec 21	
Jeffrey Oil, Humboldt co., 50c		Jan 4	Jan 15
Jura, Storey co., Nev., 75c		Jan 2	Jan 15
Jewett, Storey co., Nev., $1		Jan 6	Jan 20*
Joe Lane, Lander co., 50c		Jan 13	Jan 29*
Keokuk, Contra Costa co., 10c		Dec 16	Dec 30
Kentuck, Storey co., Nev., $17.50		Jan 3	Jan 15
Kimblin Ravine, Sierra co		Meeting, Dec 26*	
Leon, Esmeralda co., Nov. 35c		Nov 17	Dec 18
La Fernandez, Sonora, Mex., $5		Nov 23	Dec 16
Lady of the Lake, S. F. Dist., Arizona, 25c		Dec 30	Jan 18*
Leland, S. F. Dist., Arizona, 25c		Dec 30	Jan 18*
Lady Bell, Del Norte co., 10c		Dec 18	Jan 5
La Victoire, Mariposa co., $2		Jan 3	Jan 22
Lady Franklin, Alpine co., 50c		Jan 6	Jan 26*
Lady Bryan, Storey co., Nev		Special Meeting, Dec 27	
Mina Rica de las Flores, Calaveras co., 50c		Jan 2	Jan 22
Mount Davidson, Storey co., Nev $1		Dec 2	Dec 20*
Maggie, Lander co, Nev., $4		Dec 26	Jan 11
Nuestra Senora de Guadalupo, Jalisco, $6		Dec 8	Dec 18
Nuestra Senora de Guadalupe, Durango, $1		Dec 4	Jan 20
North American, Nev. $6		Levied	Nov 15
Nevada, Lander co., $1.50		Jaa 13	Jan 29*
Overman, Storey co., Nev., $25		Dec 19	Jan 3
Orleans Quicksilver, Lake co		Annual Meeting, Dec 30*	
Old Colony, Reese River, $6		Jan 14	Jan 27
Ophir		Annual Meeting, Dec 20	
Patrocina and Dolores, Chihuahua, Mex., 75c		Dec 28	Jan 16
Paragon, Humboldt co., 25c		Jan 6	Jan 26*
Peninsula, San Antonio, Lower Cal., $10		Jan 15	Jan 29
Refugio, Chihuahaa, Mex., $2½		Dec 27	Jan 9
Santa Cruz, San Antoaio, Lower Cal., $3		Dec 29	Jan 10
Simpson, Alpine co., 25c		Dec 2	Dec 16*
Salambo, Tuolumne co., 50c		Jan 3	Jan 22
Siempre Viva, Sinaloa, Mex., $2 50		Jan 6	Jan 20*
Sierra Nevada, Storey co., Nev., $3		Dec 28	Jan 15
Sierra Valley, Plumas co., $1		Jan 5	Jan 20
Trinidad and San Jose, Sinaloa Mex., $10		Jan 8	Jan 22
Table Mountain, Calaveras co., 50c		Dec 2	Dec 18*
Tirita S M co., $3		Levied	Nov 25
Tuolumne Mountain, 50c		Dec 27	Jan 16
United States, Storey co., Nev., 50c		Dec 16	Dec 30*
United States		Annual Meeting, Dec 25*	
United States, Lander co., $1.05		Dec 30	Jan 15*
White & Murphy, Storey co., Nev., $5.50		Dec 4	Dec 15
Wide West, Alpine co., $1		Dec 16	Dec 30*
Yellow Jacket, Storey co., Nev., $100		Dec 15	Jan 15
Yuba, Brown's Valley, $2.50		Dec 16	Dec 30*
Yankee Blade, Reese River, Nev., $15		Jan 13	Jan 29*
Zenith, Calaveras co., Cal., $3.25		Dec 9	Dec 23*
"42," Storey co., Nev., $6.25		Dec 28	Jan 13

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Baltimore Americaa	Nov 18	2 00
Bullion	Nov 26	10 00
Cole	Nov 25	1 00
Caledonia T & M Co	Nov 10	2 00
Gold Tunneling	Dec 8	75
Jura	Dec 7	75
Jewett	Dec 8	1 00
Milton	Nov 30	6 00
North American	Nov 16	6 00
Overman	Nov 18	25 00
Schiller	Nov 11	1 00
Sides	Dec 1	3 00
Sierra Nevada	Nov 28	3 00
United States	Nov 15	50
Yellow Jacket	Nov 14	100 00
420, S. M. Co	Dec 1	6 20

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale.
Americau Basin	Dec 18	Virginia
Caledonia T & M Co	Dec 21	San Francisco
Globe	Dec 30	Virginia
Hale & Norcross	Dec 11	San Francisco
Kennedy	Dec 22	Virginia
Mount Davidson	Dec 20	San Francisco
North Comstock	Jan 13	Virginia.
Nevada	Dec 8	Virginia
Orleans Flat	Nov 24	Virginia
Sand Springs, Salt	Dec 15	Virginia
Savage	Dec 13	San Francisco
Union	Dec 18	Virginia
Utah	Jan 3	Virginia
White & Murphy	Dec 18	San Francisco

MR. MOORE, of the celebrated mining firm of Moore & Fogus, "Morning Star" lodge, Owyhee, Idaho, recently passed through Salt Lake City, *en route* to the East. His mill has crushed from four to eight thousand dollars' worth of gold and silver per week, for the last eighteen months—enough to make him another Crœsus.

A TRIBE of English gypsies has appeared near Trenton, N. J., where they support themselves in the traditional fashion, by telling fortunes and plundering hen roosts. Their number is so large as to require twenty-six wagons for the transportation of the women and children and baggage.

WITHIN five years, Victor Hugo has made $150,000 by his pen. His fame is universal. It is a curious fact that he labors under the delusion that he has mistaken his vocation; he thinks he should have been a painter.

To Delinquent Mining Companies.

We hereby give especial notice to the Secretaries, Trustees and Shareholders, of such Mining Companies as are owing us bills for advertising of OVER SIX MONTHS STANDING, that we shall commence action, according to law, to collect the amounts due, if the same are not immediately settled.

DEWEY & CO.,
Office Mining and Scientific Press, Nov. 25, 1865.

Notice.—The interest of E. D. Waters, Jr., in the job printing firm of Dewey, Waters & Co., has been purchased by A. T. Dewey. The business of the late firm will be continued under the title of "MINING AND SCIENTIFIC PRESS JOB PRINTING OFFICE."

San Francisco, November 18, 1865.

Deserved Testimonial.

GRIZZLY FLAT, Oct. 18, 1865.

MESSRS. HUNGERFORD & HENRY—*Gentlemen:* We have run your Concentrator for several days past, in our 5 stamp Mill, and, as far as can be ascertained at present, it is a perfect success. When running at the rate of from two hundred and ten to two hundred and twenty-five revolutions per minute, we have lost neither quicksilver nor sulphurets. Formerly, when using copperplate riffles and blankets, we found that in spite of the utmost precaution, quicksilver would escape over them all. Wishing you all success, we remain Your obedient servants,

E. A. BIGLER.
17v11qy S. F. DAVIS.

Metallurgy.

EUROPEAN METALLURGICAL WORKS,
—AND—
Practical Mining School,
Bryant Street, Between Third and Fourth,
SAN FRANCISCO.

THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

PRACTICAL MINING SCHOOL.

The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

S. P. KIMBALL, J. R. MURPHY.
10v10

G. KUSTEL,
Metallurgist and Mining Engineer,
Stevenson House, corner Montgomery and California sts.
Ores Analyzed,
Advice given, and Plans Furnished for working of different Ores. Mines examined and reported upon.
20v11-3m

BOALT & STETEFELDT,
Metallurgists and Mining Engineers
AUSTIN, NEVADA.

Western Branch of ADELBERG & RAYMOND, No. 90 Broadway, New York. 11v11

FIRST PREMIUM
FOR REFINING COAL OIL,
At the Mechanics' Institute Fair, 1864.

The PIONEER PETROLEUM OIL WORKS CO. is now ready to advance money upon every kind of Mineral Oil, from five to one hundred thousand gallons, upon assays certified to by Professor E. Benoist, Office Hours—Before 10 o'clock A. M., or between 2 and 4 P. M.

E. BENOIST, Engineer and Chemist,
17v10 643 Third Street, bet. Brannan and Townsend.

SANTA CLARA COLLEGE, S. J.,
SANTA CLARA, CAL.

Conducted by the Fathers of the Society of Jesus.

The FIFTEENTH ANNUAL SESSION of this College will commence on

Monday, August 28th, 1865.

TERMS—Tuition in the Classical and Scientific Department; Boarding and Lodging; Washing and Mending of articles washed; School Stationery; Medical Attendance and Medicine; fuel, light, baths, etc., per session of ten months..... $350

For further information and catalogues, apply to the President of the College, or to Rev. A. Maraschi, St. Ignatius College, Market street, San Francisco.

3v11 REV. A. MASNATA, S. J., President.

Professional Cards.

Our Patent Agency.

The PATENT AGENCY of the MINING AND SCIENTIFIC PRESS has been signalized with remarkable success during the past two years. The importance to the inventive genius of this coast of a thorough and reliable agency for the solicitation of LETTERS PATENT from the United States and foreign Governments cannot be over-rated, and the Proprietors of the Press, feeling the responsibility which rests upon them, and the reward which must follow the faithful performance of their trusts, will take care to afford inventors every advantage to be secured to them through a competent and responsible agency upon this coast.

WM. L. DUNCAN,
Stock Broker,
Member of the San Francisco Stock and Exchange Board,
No. 605 Montgomery Street, San Francisco.

Mining Shares and Legal Tender Notes bought and sold strictly on commission. Liberal cash advances made on stocks consigned for sale. 1v11-3m

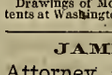
S. C. BUGBEE & SON,
ARCHITECTS.
DESIGNS, MACHINE DRAWINGS, AND DRAWINGS ON WOOD.

74 and 75 Montgomery Block
SAN FRANCISCO. 25v10-3m

FREDERICK MANSELL.
Mechanical & Architectural Draughtsman,
No. 422 California street, corner of Leidsdorff.

Drawings of MODELS made for parties applying for patents at Washington or London. mar23-tf.

JAMES M. TAYLOR,
Attorney and Counsellor at Law,
COURT COMMISSIONER, appointed by the Fourth District Court, COMMISSIONER OF DEEDS for Nevada and Massachusetts,
Court Block, San Francisco.
Entrances opposite City Hall, Merchant street, and 636 Clay street. 14v11tf

DR. H. AUSTIN,

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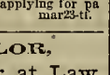

No. 634 Washington Street,
Between Montgomery and Kearny Streets
[OVER SAN FRANCISCO BATHS]
SAN FRANCISCO. 20v10 qy

AUGUST KUNAST,
Stock Broker,
Member of the
San Francisco Stock and Exchange Board,
Buys and Sells Stocks, Bonds, Etc.
Office, No. 540 Washington Street, San Francisco. 2v10

G. F. DEETKEN,
Mining Engineer and Metallurgist,
Address - - - - - San Francisco. 25v9

WILLIAM P. BLAKE,
MINING ENGINEER,
Will make Surveys and Examinations of Mines, or give advice regarding their working, the erection of Machinery, etc.
Office at Union Iron Works, corner of First and Mission sts., or Lock Box 2,077 Post Office, San Francisco.
11v22qy

W. O. ANDREWS,
NOTARY PUBLIC,
—AND—
Commissioner of Deeds for the State of Nevada and the Territory of Arizona,
AND FOR THE
STATES OF MASSACHUSETTS AND MAINE.
Office, Montgomery Block, 626 Montgomery Street,
10v8-2m SAN FRANCISCO.

GEORGE H. BAKER,
Lithographer & Engraver,
No. 522 Montgomery St., San Francisco.
MINING STOCK CERTIFICATES LITHOGRAPHED IN MOST ARTISTIC STYLE. CALL AND EXAMINE SPECIMENS.
10v8-tf

SHERMAN DAY,
Mining Engineer,
No. 56 Montgomery Block, San Francisco,
Will examine, survey and report upon mines, and cons and advise concerning investments in mining property, or the machinery management and expenditures of mines.
22q*

REMOVAL.
MONS. A. COULON,
Informs his patrons that he has removed his DRAWING SCHOOL from Pine street to
410 Kearny Street.
Drawing Classes in the Evening will take place as usual. DRAWINGS FOR PATENTS accurately and neatly done.
20v11-1m

LICK HOUSE,
Corner of Montgomery and Sutter streets,
SAN FRANCISCO.
S. ALSTROM AND G. S. JOHNSON, Prop'rs.

This elegant and commodious Hotel is situated on the principal promenade street of San Francisco. The Lick House is finished and furnished with a degree of beauty and excellence unsurpassed, combining all the modern applications and arrangements of a FIRST CLASS HOTEL, thus offering superior inducements to the traveling public. The proprietors assure their patrons that the Lick House shall not be excelled in any of its appointments, or in polite attendance or attention to all the comforts of its guests.
15v11

Trades and Manufactures.

Pacific Glass Works
Are now prepared to execute orders for the manufacture of
All Kinds of Bottles to Order.
Office, No. 621 Clay street, San Francisco. 3v11-3m

BUSWELL & CO.,
Book-Binders, Paper-Rulers,
And Blank-Book Manufacturers.
No. 509 Clay street and 508 Commercial street, between Montgomery and Sansome, San Francisco. 4v8-tf

JOHN DANIEL,
(SUCCESSOR TO D. GORI)
MARBLE WORKS,
No. 408 Pine st. bet. Montgomery and Kearny, San Francisco.

Mantels, Monuments, Tombs, Plumbers' Slabs, Etc., On hand and Manufactured to order.
☞ Goods shipped to all parts of the State. Orders respectfully solicited. 5v8-3m

NATHANIEL GRAY,
General Furnishing Undertaker,
641 Sacramento St., corner of Webb, San Francisco.
Barstow's Metallic Burial Caskets and Cases.
1tf

THEODORE KALLENBERG,
Maker of Models for Inventors.
MACHINES, MATHEMATICAL, OPTICAL AND PHILOSOPHICAL Instruments, Scales, Weights, etc. Steel Stamps, Dies and Die Sinking, Embossing Stamps. Repairing of machinery promptly attended to.
No. 418 Market street, San Francisco. n7-tf

Palmer's Patent
ARTIFICIAL LEG,
Manufactured in Philadelphia, Penn.
JARVIS JEWETT, AGENT.
629 Washington Street, San Francisco, Cal. 10v8-1m

JAMES MACKEN,
COPPERSMITH,
No. 226 Fremont st., bet. Howard & Folsom.
All kinds of COPPER WORK done to order in the best manner. Particular attention paid to Steamboat, Sugar House and Distillery work.
Repairing promptly and neatly attended to.
13v11

Fire, Hydraulic and Suction Hose
And Leather Belting.
M. M. COOK & SON,
861 Battery Street, San Francisco,
Are now manufacturing as above, Fire, Hydraulic and Suction Hose, and Leather Belting, of any dimension and in any quantity which may be desired. Fire Hose and Belting constantly on hand or manufactured to order. Also Saddles and Horse Collars.
The subscribers would respectfully ask purchasers to call and examine their stock—also testimonials of the efficiency of their work from such as have used their hose both for fire and mining purposes. A diploma was awarded to us last year, by the Mechanics' Institute, of this city, and a silver medal this year. 12v11-1y

NEW YORK PRICES.

WATCH REPAIRING AT NEW YORK PRICES.

C. E. COLLINS,
No. 602 Montgomery street, San Francisco.
EXCLUSIVE AGENT
— FOR THE —
AMERICAN WATCH FACTORY.
A large assortment of these
Superior Watches,
In Gold and Silver Cases,
Constantly on hand, and sold at Factory prices. Also,
ENGLISH AND SWISS WATCHES,
Imported directly from the Manufacturers.
The American Company are now making
VERY FINE WATCHES FOR LADIES.
☞ A large assortment of Gold Chains and Jewelry. 25v10-6m

WATCH REPAIRING AT NEW YORK PRICES.

NEW YORK PRICES.

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

A Business Compliment.

PETALUMA, Oct. 4, 1865.

MESSRS. DEWEY & CO.—Gentlemen: Your note informing me that my patent for Crushing and Baling Machine is ordered to issue is at hand. Please accept my thanks for the prompt and business like manner with which the case has been conducted, and inclosed find twenty dollars for balance Government fees. Respectfully, etc.

JACOB PRICE.

By Authority of the State of California,

Having fully Complied with the Law by a Deposit of $525,000 Bonds of the State of California and the United States.

BIGELOW & BROTHER,
General Insurance Agents.
Fire, Marine, and Life Insurance.

CAPITAL REPRESENTED $15,000,000.

California Deposit, $525,000.

OFFICES—N. W. corner of Montgomery and Sacramento streets.

COMPANIES REPRESENTED:

HOME INSURANCE CO. OF N. Y., Asscts.....	$3,700,000
HARTFORD FIRE INSURANCE CO., Assets.....	1,500,000
PHENIX INSURANCE CO., N. Y., Asscts.....	1,000,000
ARCTIC INSURANCE CO., N. Y., Assets.....	700 000
WASHINGTON INSURANCE CO., N. Y., Assets...	700,000
NEW YORK ACCIDENTAL INS. CO., Asscts.....	260,000
CONNECTICUT MUTUAL LIFE INS. CO., Assets..	8,000,000

POLICIES issued on Freights, Cargoes and Treasure from and to all parts of the World.

FIRE INSURANCE POLICIES issued on all kinds of Insurable Property in Country or City.

ACCIDENTAL POLICIES issued on the most favorable terms, insuring the payment of stated sums in the event of death, or a fixed Weekly Compensation for Total Disability for the term of twenty-six weeks for any one accident. These Policies cover all kinds of Accidents, and are issued for single trips or for the year.

Losses Payable in Gold Coin of the United States.

We represent Companies

That Have Stood the Test of Years,

And offer as favorable terms as any on the Pacific Coast.

BIGELOW & BROTHER,
20v11tf **General Agents.**

MINING BLANKS
For Sale
AT THE
OFFICE OF THE MINING AND SCIENTIFIC PRESS
No. 505 Clay Street, corner of Sansome.

Blanks for Mining Companies, Secretaries, Shareholders and others, always on hand, or printed to order, at our office.

Among others are those of the following forms:

Shareholder's Proxy.

Know all men by these presents, that I, ... do hereby constitute and appoint ..... my attorney and agent, for me and in my name, to vote as my proxy, at a meeting of the ..... Mining Company, to be held ..... 186 , according to the number of votes that I should be entitled to cast were I there personally present.

In witness whereof I have this day hereunto set my hand and seal. .....[Seal]

Dated 186

Assessment Notice.

..... Company

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the ..th day of ....., 186 , an Assessment of .....per share was levied upon the Capital Stock of said Company, payable on the ..th day of .....186 , in United States gold and silver coin to the Secretary.

Any stock on which said Assessment shall remain unpaid on Saturday, the ..th day of ....., 186 , will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on ....., the ..th day of ....., 186 , to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees.

.....Secretary.

Office.....

NOTICE.—There are delinquent, upon the following described Stock, on account of assessment levied on the ..th day of ....., 186 , the several amounts set opposite the names of the respective shareholders as follows, to wit:

Names.	No. Certificate.	No. Shares.	Amount.
Theophilo Tbistio.....	23	14	$140 00
Peter Pipe	2	3	30 00

And in accordance with law and an order of the Board of Trustees, made on the ..th day of ..... , 186 , so many shares of each parcel of said stock as may be necessary, will be sold at the.....

....., on ....., the ..th day of....., 186 , at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

.....Secretary.

Office.....

☞ Our advertisers are furnished with blank Assessment Sale notices free of charge. Orders from the interior promptly filled, by mail or express, as may be desired.

To Publishers.

An editor and practical printer, of good experience and recommendation, desires a situation and will accept a moderate salary on trial. Address this office.

WATER PIPES.—Mr. Hamilton, President of the Board of Trustees of Grass Valley, has purchased 2,500 feet of six-inch water pipe, to be laid down in that town. It was purchased of the Spring Valley Water Company of this city, and is nearly as good as new. The cost was a dollar and thirty cents a foot.

A SINGULAR ATTACHMENT.—A pelican flying over Stockton the other night, got enamored of a newspaper carrier, or the lantern which was lighting him on his rounds, and lit by his side. He secured him and conveyed him to his residence, since which time he has become thoroughly domesticated, following the boy like a dog.—*Independent.*

INLAND SEAS—The tule lands overflowed by the Sacramento and American rivers, in Sutter and Sacramento counties, are now vast inland seas. In many places farm houses seem to be setting on little islands, surrounded by water, in which swarm wild geese, pelicans, ducks and other aquatic birds.

THE TURPENTINE TRADE.—The amount of turpentine manufactured at Dogtown, in Butte county, this season, is immense. The boxes of rosin number 2,350, and 24,000 gallons turpentine. The lumber required to box the rosin, was 45,000 feet, and 520 barrels to hold the turpentine.

THE sum of ninety thousand dollars has been subscribed to the stock of a company which is to commence the manufacture of wool on Puget Sound.

Important to Californians.—Many inventors have lately had their claims for Patents seriously (and in some cases fatally) delayed by the unqualification of agents who have not complied with the Government license and revenue laws, as well as other new and imperative regulations. These discrepancies, although arising from the inexperience of honest agents, are none the less dangerous to applicants for patents, whose safest course is to trust their business with none but active and experienced solicitors. THE MINING AND SCIENTIFIC PRESS PATENT AGENCY has strictly complied with the requisitions of the Department, and properly filed all necessary papers as Claim Agents.

REMOVAL!

R. WEGENER,

Accountant and Mining Secretary

Has removed to

No. 415 Montgomery Street—west side,

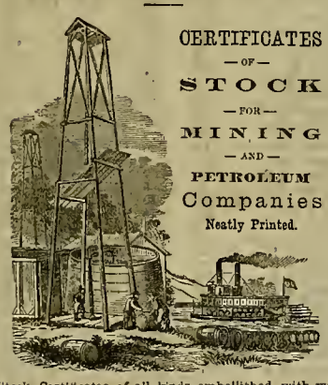
Between Sacramento and California sts.,

6vI0 SAN FRANCISCO.

Mining and Scientific Press

JOB PRINTING OFFICE,

No. 505 Clay street, corner of Sansome.



CERTIFICATES

—OF—

STOCK

—FOR—

MINING

—AND—

PETROLEUM

Companies

Neatly Printed.

Stock Certificates of all kinds embellished with wood cuts and electrotype engravings. We devote special attention to the execution of all kinds of work required by Mining Companies, Machinists and Manufacturers.

Machinists and Foundries.

GEORGE T. PRACY,

MACHINE WORKS,

Nos. 109 and 111 Fremont street, near corner of Mission,

OPPOSITE MECHANICS' MILL,

SAN FRANCISCO.

STEAM ENGINE, FLOUR AND SAW MILL, And Quartz Machinery, Printing Presses,

—AND—

MACHINERY OF EVERY DESCRIPTION MADE AND REPAIRED.

☞Special attention paid to Repairing.☜ qy-3

UNION IRON WORKS,

Sacramento.

WILLIAMS, HEILBRON & CO.,

MANUFACTURERS OF

STEAM ENGINES, BOILERS,

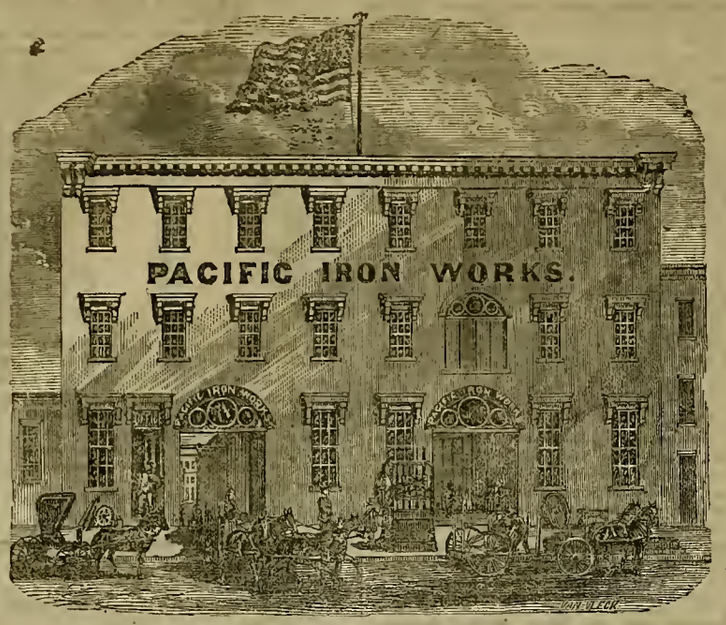
And all kinds of Mining Machinery.

Also, Hay and Wine Presses made and repaired with neatness, durability and dispatch.

Dunbar's Patent Self-Adjusting Steam Piston PACKING, for new and old Cylinders, manufactured to order.

Front Street, between N and O streets,

14vII SACRAMENTO CITY.



THE PACIFIC IRON WORKS,

First & Fremont Sts., between Mission & Howard, San Francisco.

The proprietors of the above Works invite the attention of all parties interested to their greatly improved and unequaled facilities for manufacturing Steam Engines and Boilers, both Marine and Stationary, of any required size and pattern, Quartz Mills, Amalgamating, Pumping and Hoisting Machinery of the most approved construction. Flour, Saw, and Sugar Mills, Water Wheels, &c., &c. Our pattern list is most complete and extensive, embracing the late improvements in all classes of machinery adapted to use on this coast. We would call especial attention to the fact that we have secured the exclusive right of manufacture for the Pacific Coast of the celebrated Greene Engine, conceded to be the most economical and perfect working Engine now in use. We are also exclusive manufacturers of the celebrated

Bryan Battery, Varney's Amalgamators and Separators, Ryerson's Superheated Steam Amalgamators and Rotary Crushers, Stone Breakers, &c. Orders respectfully Solicited.

GODDARD & COMPANY.

Vulcan Iron Works Company

[ESTABLISHED 1850.]

First, Natoma and Fremont Streets.

IRON FOUNDERS,

Steam Engine and Locomotive

BUILDERS,

Boiler Makers, and Workers in Sheet Iron, Brass and Copper.

These Works have lately been increased by the addition of new shops on Fremont Street, doubling the capacity of the original establishment. Their facilities for turning out machinery promptly and efficiently, are now unequaled in the State. Their Boiler Works have also been enlarged correspondingly.

The Company are prepared to execute orders for all classes of Machinery and Boiler Work, such as

Mining, Steamship, and Steamboat Machinery,

Railroad Machinery, Locomotives, Car Trucks, Car Wheels, Housings and Irons; and Flouring Mills, Quartz Mills, Sugar Mills, Saw Mills,

Manufacturing Machinery of Every Kind.

Sole Manufacturers of

HEPBURN & PETERSON'S REDUCING PAN AND AMALGAMATOR;
BEATIE'S AMALGAMATOR;
HESSE & MOORE'S IMPROVED HOWELL QUARTZ CRUSHER;
BAUX & GUIOD'S AMALGAMATOR AND SEPARATOR;
FAUCHERY'S QUARTZ GRINDER AND WATER WHEEL;
JONVAL'S IMPROVED WATER WHEEL;
LEFFEL'S AMERICAN DOUBLE TURBINE WATER WHEELS.
STEVEN'S PISTON PACKING RINGS.

They have also a large assortment of Patterns for Pumping and Hoisting Machinery, Gearing, Pullies, Water Mill Irons, Hydraulic and Screw Presses, Retorts, Furnaces, Orato Bars, House Fronts, Ornamental Fence Posts and Paling, Stove Ranges, etc., etc.

Quartz Stampers, Shoes and Dies, of the best Hard Iron. Quartz Screens of Russia Iron Punched to Order. 27

Miners' Foundry

—AND—

MACHINE WORKS,

First St., between Howard and Folsom Streets,

SAN FRANCISCO.

EVERY description of Iron and Brass Machinery, the BEST and MOST ECONOMICAL, manufactured in the State of California, will be furnished with dispatch at the MINERS' FOUNDRY AND MACHINE WORKS, such as

Steam Engines and Boilers, Flour, Saw and Quartz Mills,

Machinery, Mining Pumps, Amalgamators,

Retorts, Etc., Etc.

Particular attention will be given to the manufacture of Machinery in Sections designed for places of difficult access. Various models of Quartz Crushers, Amalgamators and Water Wheels—some in operation and on exhibition.

*** Parties desiring to test their ores practically, in small quantities, will be afforded ample facilities, FREE OF COST.

All parties desiring accurate and highly finished drawings and superior Machinery, at most reasonable rates, are cordially invited to call before contracting elsewhere.

HOWLAND, ANGEL & KING.

LEWIS COFFEY. J. S. RISDON

LEWIS COFFEY & RISDON,

Steam Boiler & Sheet Iron Works.

THE only exclusively Boiler Making establishment on the Pacific Coast owned and conducted by Practical Boiler Makers. All orders for New Work and the repairing of Old Work, executed as ordered, and warranted as to quality.

Old Stand, corner of Bush and Market streets, opposite Oriental Hotel, San Francisco.

H. J. BOOTH. GEO. W. PRESCOTT. I. M. SCOTT.

UNION IRON WORKS!

Corner First and Mission streets,

SAN FRANCISCO.

ESTABLISHED IN 1849.

HAVING INCREASED OUR FACILITIES IN EVERY Department, we are now prepared at the shortest notice and at the most reasonable rates, to furnish all kinds and description of Machinery, including Steam Engines, Quartz Mills, Mining Pumps of all kinds, Hoisting Gear, Gas Work, Laundry Machinery, Architectural and Ornamental Castings, Sugar Mills, Saw and Flour Mills, Water Wheels of all kinds, Hydraulic, Hay, Rag, Screw and Drop Presses, Coining Machinery, Pile Drivers, Bark and Malt Mills, and all kinds of Castings.

Engines.

Marine Engines, Oscillating and Beam; Stern and Side Wheel Boats, Locomotives, Stationary Engines, Horizontal, Upright, Oscillating and Beam, from six to fifty inches diameter. Also, Scott and Eckart's Adjustable Cut-off Regulator—best in use; W. R. Eckart's Balance Valve for Stationary Engines; Woodward's Patent Steam Pump and Fire Engine.

Boilers.

Locomotive, Flue, Tubular, Upright, Cylinder and Cornish, and every variety of Boiler Work. All sizes of tubes and pipes for pumps.

Amalgamating Machinery.

Wheeler & Randall's Improved Tractory Curve Pan, Zenas Wheeler's improved flat bottom pan, Belding's pan, Veatch's tubs, Prater's concentrators, Wakiee's pans, Beers' pan, German Barrels, Arastra Gearing, Chile Mills, Settlers of all descriptions, Retorts of all sizes and shapes, for Silver and Gold, Portable Stamp Mills, Straight Batteries, for wood or iron frames, Dry Crushing Batteries, or machines with the latest improvements, every variety of Stamps, Mortars, Cams, Pans and Tubs.

BLAKE'S PATENT QUARTZ CRUSHERS, of all sizes.

Oil Boring Tools and Machinery,

Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.

We have the facilities for working gold and silver quartz and other ores, to test their value, by the hundred weight or ton.

Russia Iron Screens, of all degrees of fineness and of all qualities of Iron.

All work done in the best manner at the lowest cash prices.

2Ivl0 H. J. BOOTH & CO.

JOHN F. GALLAGHER. JOSEPH WEED.

GALLAGHER & WEED,

BRASS AND BELL FOUNDRY

And Lock Factory.

ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.

CHURCH AND STEAMBOAT BELLS, OF ALL SIZES, made to order. Engineers' Gongs made and hung in the best manner. Bank, Vault, Store and Prison Locks; also Brass Padlocks and Shop Locks of various patterns, on hand and made to order.

☞ Particular attention given to casting Rudder Braces and Ship Work in general.

☞ All Jobs promptly attended to. Prices moderate.☜ No. 125 First street, opposite Minna next door to Pacific Foundry. 32tf

Removed from Oregon street, between Front and Davis

To Printers.

We have for sale, at a bargain, a Second-hand Half-Medium (largest size), Ruggles' Engine Job-Printing Press, most approved pattern. It is in excellent condition, and warranted to work as good as new. Apply soon, at the office of the MINING AND SCIENTIFIC PRESS. 19vIItf

PALMER, KNOX & CO.,

Golden State Iron Works,

Nos. 19, 21, 23 and 25 First Street,

SAN FRANCISCO.

MANUFACTURE ALL KINDS OF

MACHINERY,

STEAM ENGINES AND QUARTZ MILLS

DUNBAR'S IMPROVED

Self-Adjusting Piston Packing,

Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S

NEW GRINDER AND AMALGAMATOR,

HEPBURN & PETERSON'S

AMALGAMATOR AND SEPARATOR,

Tyler's Improved Water Wheel,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.

KNOX'S AMALGAMATORS,

WITH PALMER'S PATENT STEAM CHEST,

Superior for working either Gold or Silver Ores.

Genuine White Iron Stamp Shoes and Dies

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13vl0qy-tf

FULTON

Foundry and Iron Works.

HINCKLEY & CO.,

MANUFACTURERS OF

STEAM ENGINES,

Quartz, Flour and Saw Mills,

Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.

Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

SAN FRANCISCO

Foundry and Machine Works,

N. E. Cor. Fremont and Mission streets,

Manufacturers of

Marine and Stationery Engines!

Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.

—ALSO—

Wine, Cider, Cotton and Tobacco Presses of the latest Improved Patterns.

Brodie's Improved Patent WIND BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Baux & Guiod's Amalgamator and Separator; W. W. Tupper's Patent Sectional Grate Bar; Coal Oil Well Boring Machinery complete, on hand.

STEAM ENGINES AND BOILERS,

Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.

MACHINERY, OF ALL DESCRIPTIONS, Bought, sold, or exchanged. Bolt Cutting and Castings, at the lowest market rates.

6vII-Iy **DEVOE, DINSMORE & CO.**

Novelty Iron Works,

Steam Engine, Boiler and Machine Shops.

STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.

Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.

WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY.* Send for a Circular.

E. T. STEEN.

105, 107 and 109 Fremont st., cor of Mission

SAN FRANCISCO 21v21fd

PORTLAND BOILER WORKS.

MOYNIHAN & AITKEN,

BOILER MAKERS AND SHEET IRON WORKERS.

N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.

Mission street, between Beale and Fremont streets, Sa Francisco. qy29-t

JOHN LOCHHEAD'S

STEAM ENGINE WORKS,

Beale Street, near Mission Street,

SAN FRANCISCO.

Steam Engines of every description built to order—Marin Stationary, or Locomotive.

Hoisting and Pumping Engines,

Portable Engines of all Sizes: Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer

Calendars for 1866.—The Mining and Scientific Press Job Printing Office is prepared to execute every manner of Counting-house Calendars and advertisements for various business men, on short notice and moderate terms.

New Mining Advertisements.

Continued Mining Advertisements will be found under another head.

Agawam Gold and Silver Mining Company,
Union District, Nye County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of December, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 27th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

G. M. BURNHAM, Secretary.

Office, 436 Jackson street, San Francisco. dec16

Notice.—The Annual Meeting of the stockholders of the AGAWAM GOLD AND SILVER MINING COMPANY, for the election of Trustees, and transaction of such business as may come before them, will be held at the office of the Company, 435 Jackson street, San Francisco, on Saturday, the 13th day of January, 1866, at 12 o'clock M.

dec16 G. M. BURNHAM, Secretary.

Blue Ledge Gold and Silver Quartz Mining Company, Kelsey District, El Dorado County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of December, 1865, an assessment of one dollar and fifty ($1.50) cents per share was levied on each and every share of the capital stock of the Blue Ledge Gold and Silver Quartz Mining Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 27th day of January, 1866, at 12 o'clock M. of that day, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. M. BUFFINGTON, Secretary.

Office, No. 10 Government House, corner of Sansome and Washington streets, San Francisco. dec16

Goodwin Gold and Silver Mining Company, Simpson Park District, Lander County, Nevada.

Notice.—There are delinquent upon the following described stock, on account of assessment (No. 9) levied on the 7th day of November, 1565, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Burdick, S A	194	10	$20 00
Chapin, E M	214	5	10 00
Chapin, Mrs E M	61	10	20 00
Christendeu, J G	250	10	20 00
Clendennen, Jas B	256	7	14 00
Clendennen, Jas B	257	7	14 00
Dunbar, Mrs A E	116	25	50 00
Dunbar, Mrs A E	117	25	50 00
Litchfield, W D	200	10	20 00
Kretchner, Herman	210	15	30 00
McLachlin, Donald	190	10	20 00
Noyes, Wm M	213	10	20 00
Noyes, Wm M, Agent	262	60	120 00
Noyes, Wm M, Agent	263	679	1358 00
Noyes, Wm M, Agent	264	1000	2000 00
Noyes, Wm M, Agent	265	546	1092 00
Shrader, A J	58	20	40 00
Shrader, A J	59	20	40 00
Shrader, A J	62	20	40 00
Shrader, A J	63	20	40 00
Shrader, A J	64	20	40 00
Shrader, A J	65	20	40 00
Shrader, A J	66	20	40 00
Shrader, A J	67	20	40 00
Shrader, A J	68	20	40 00
Shrader, A J	69	20	40 00
Shrader, A J	70	20	40 00
Shrader, A J	71	11	22 00
Smith, William	236	50	100 00
Smith, William	237	50	100 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., at their salesroom, 526 Montgomery street, on the 30th day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

E. V. JOICE, Secretary.

Office, corner Washington and Battery street, San Francisco. dec16

Honest Miner Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of December, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, 402 Front street.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 29th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front Street, San Francisco. dec16

Joe Lane Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of December, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, 402 Front street.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 29th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. dec16

Keokuk Gold, Silver and Copper Mining Company, Clayton District, Contra Costa County, California.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 16th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Wm Morris	335	50	$ 6 00
Jas M Bunker	92	25	2 50
J T Pilloon	202	100	10 00
E Bent	502	25	2 50
J F Morrow	648, 649	10-ea	20 2 00
J F Morrow	650, 651	5-ea	10 1 00
W W Theobalds	9	100	10 00
Chas Jackson	114	25	2 50
Chas Jackson	455	200	20 00
Geo Cofran	135	25	2 50
Geo Cofran	137	50	5 00
Geo Cofran	not issued	95	0 50
Geo F Sharp	425	200	20 00
J G Perkins	525	25	2 50
Jas H Crocker	529	25	2 50
H H Schafer	393	70	7 00
Thos Boyce	333	25	2 50
Thos Boyce	433	78	7 80
J N Peterson	543	30	3 00
D O Leary	308	20	2 00
D S Sheldon	542	50	5 00
D R Coleman	449	50	5 00
J W Domett	544	5	50
J W Domett	545	5	50
J W Domett	546	5	50
J W Domett	547	5	50
J McMahon	537	50	6 00

And in accordance with law and an order of the Board of Trustees, made on the 16th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., No. 626 Montgomery street, San Francisco, on the 30th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

A. B. WINNECAR, Secretary.

Office, 308 and 310 Front street, San Francisco. dec16

Nevada Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 14th day of December, 1865, an assessment of one dollar and fifty cents ($1.50) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, 402 Front street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 29th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. dec16

Wide West Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 11th day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Wm C Allred	173	15	$15 00
Mrs S K Arnold	228	5	5 00
Mrs S K Arnold	229	2½	2 50
Geo E Brush	120	4	4 00
J S Brown	213	10	10 00
Brown & Kent	264	5	5 00
Reuben Bost	162	10	10 00
John Crawford	105	10	10 00
B Capell	78	5	5 00
P Christianson	114	8	8 00
P Christianson	115	6	5 00
Jacob Cook	207	10	10 00
David Dutton	198	10	10 00
David Dutton	199	10	10 00
David Dutton	200	5	5 00
David Duttou	239	10	10 00
David Dutton	240	10	10 00
Wm Demming	246	10	10 00
Wm Edgington	223	10	10 00
T B Grayham	73	5	5 00
John Gilham	246	10	10 00
Emelish Jusilee	64	5	5 00
John Lawley	111	10	10 00
John Lawley	112	10	10 00
A B Lake	121	4	4 00
James Lefferts	255	44	44 00
Dr S A McManes	258	81	81 00
J A McClimsey	30	10	10 00
Alex McLellan	171	5	5 00
Alex McLellan	172	5	5 00
Alex McLellan	211	10	10 00
J Meellnberg	113	6	5 00
James Morrison	41	5	5 00
Robert McReynolds	118	10	10 00
Jacob McReynolds	122	2	2 00
Jacob McReynolds	241	5	5 00
J W McAhee	236	10	10 00
J N Pierson	195	10	10 00
J N Pierson	196	10	10 00
J N Pierson	197	5	6 00
J N Pierson	5	5	5 00
A A Prescott	224	10	10 00
J H Pare	252	5	5 00
T H Rickman	127	5	5 00
T H Rickman	128	10	10 00
T H Rickman	129	8	8 00
Rickman & Sewell	130	5	5 00
Geo F Reeves	230	5	5 00
Andrew Stephens	106	20	20 00
Andrew Stephens	107	20	20 00
Andrew Stephens	108	20	20 00
Andrew Stephens	186	20	20 00
Olc Simondson	119	5	5 00
Jerome Wade	36	5	5 00
Jerome Wade	36	5	5 00
Jeromo Wade	37	5	5 00
Jerome Wade	38	6	5 00
W H Whito	58	10	10 00
R J Whitton	57	7	7 00
R J Whitton	66	10	10 00
David Wise	45	5	5 00
David Wise	40	5	5 00
W H Whitton	47	20	20 00
W H Whitton	48	20	20 00
W H Whitton	49	5	5 00
W H Whitton	50	5	5 00
W H Whitton	51	5	5 00
W H Whitton	52	5	5 00
M S Whitton	2	5	5 00
E Whitton	62	20	20 00
Mrs N Whitton	63	10	10 00
S C Wolfskill	179	25	25 00
A G Wood	272	20	20 00
A G Wood	273	20	20 00
A G Wood	274	20	20 00
A G Wood	375	20	20 00
A G Wood	276	20	20 00
A G Wood	277	20	20 00
A G Wood	278	20	20 00
B F White	42	12½	12 50
B F Whito	not issued	8	3 00

And in accordance with law, and an order of the Board of Trustees, made on the said 11th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of Olney & Co., 526 Montgomery street, San Francisco, on the 30th day of December, 1865, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

JOSEPH CREEN, Secretary.

Office, 330 Davis, corner of Washington street, San Francisco. dec16

Yuba Gold and Silver Mining Company, Brown's Valley, Yuba County, State of California.

Notice.—There are delinquent upon the following described stock, on account of assessmout levied on the 15th day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Pierre Berges	36	6	$12 50
John Stock	72, 05	25-ea 50	125 00
John Stock	275	19	47 50
John Stock	303, 317	6-ea 10	25 00
C de Montpreville	89	12	30 00
C de Montpreville	90	13	32 50
C de Montpreville	109	3	7 50
Blaise Laparlat	118	10	25 00
Maivina Blaise	129	2½	6 25
Wm Hawley	287	7	17 50
Wm Hawley	328	25	62 50
Mrs S M Hawley	283	3	7 50
Andrew S Bristol	324	6	12 50
D W Ruggles	325	5	12 50
J B Couruon	326	2½	6 25
Chas Imbourg	329	5	12 50
Wm Fischer	375	10	25 00
Wm Fischer	376	20	50 00
Wm Fischer	377	5	12 50
T A Hughes	366, 393	10-ea 20	50 00

And in accordance with law, and an order of the Board of Trustees, made on the 15th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at No. 625 Montgomery street, San Francisco, Cal., on Saturday, the 30th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

P. R. RINCSTROM, Secretary.

Office, 210 Pine street, up-stairs, San Francisco. dec16

Mining Notices--Continued.

New Mining Advertisements to be found under another heading.

Bunker Hill Quartz Mining Company, Amador County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 27th day of November, 1865, an assessment of five dollars ($5) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary,

Any stock upon which said assessment shall remain unpaid on Saturday, the 6th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 20th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

WALES L. PALMER, Secretary.

Office, No. 19 First street, San Francisco. dec9

Chicago Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of November, 1865, an assessment of two dollars ($2) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 16th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. no25

Chipionena Mining Company, District of Ures, Souora, Mexico.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 23 day of November, 1855, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Buzzolini, D	11	30	$150 00
Buzzolini, D	79	4	20 00
Chevesich, E	22	1	5 00
Cautier, F	10	30	150 00
Cbirardelli, D	23	29	145 00
Cbirardelli, D	72	90	450 00
Gbirardelli, D	75	20	100 00
Howard, C H	15	18	90 00
Boward, G H	45	7	35 00
Mosbeimer, J	66	25	125 00
Mosbeimer, J	57	25	130 00
Smith, R	82	10	50 00
Teschemacber, H F	14	18	90 00
Tescbemacber, B F	44	7	35 00

And in accordauce with law, and an order of the Board of Trustees, made on the 2d day of November, 1865, so many shares of each parcel of said stock as may be necessary, will ho sold at puhlic auction, at the salesroom of Jobn Middleton & Son, No. 404 Montgomery street, on the 16th day of December, 1865, at tbo hour of 12 o'clock M. of said day, to pay said delinquent assessment thoreon, togethor with costs of advertising and expenses of sale.

JOHN F. LOHSE, Secretary.

Office, 313 California street, San Francisco, Cal. dec2

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

Notice.—There are delinquent upon the following described stock, on account of assessment levied on the 6th day of November, 1865 the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allred, W C	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	10-ea 110	$110 00
Adams, O S	414	5	5 00
Ament, H E	not issued	5	5 00
Beard, C M	72	10	10 00
Brown, Thomas	126	6	6 00
Brown, Thomas	156	4	4 00
Brown, Mrs. L C	125	5	5 00
Berry, Geo E	50	15	15 00
Booker, W L	212	10	10 00
Botts, John	246	1	1 00
Boggs, Geo W	137	6	6 00
Boggs, A C	57	11	11 00
Bowland, Wm	364	5	6 00
Berry, Harrison	101	25	25 00
Burk, John	51	10	10 00
Boll, Jonatban	38	5	5 00
Bath, Joseph	not issued	12	12 00
Christiansou, Phillip	30	1	1 00
Christiansou, Phillip	31, 32	10-ea 20	20 00
Christiansou, Pbilip	36	9	9 00
Carmiebel A	395	39	39 00
Cornwell, J F	80, 81, 82, 83	16-ea 40	40 00
Castle, Levi	431, 432	6-ea 10	10 00
Castle, Levi	not issued	5	5 00
Coulter, Samuel	141	10	10 00
Dutton, David	38	9	9 00
Dutton, David	369	15	15 00
Demming, Wm	73	10	10 00
Elgin, W A	44	5	5 00
Grigsby, T L	99	10	10 00
Crigsby, A D	100	10	10 00
Grigsby, E D	79	10	10 00
Crigsby, R F	94	10	10 00
Gates, D V	330	5	6 00
Cillam, J	73, 74	10-ea 20	20 00
Gibson, James	39, 40	10-ea 20	20 00
Bargrave, E J	44	5	5 00
Hollingsworth, H	151	5	5 00
Bammett, E W	318	10	10 00
Hastings, D L	not issued	23½	24 00
Kercheval, Sarah A	313	10	10 00
Knight, Thomas	37	4½	5 00
Kelsta, J T	28	5	5 00
Kelsta, J T	29	4	4 00
Kelsta, J T	not issued	5	5 00
Lachman, Louis	53	10	10 00
Lian, Geo	19	10	10 00
Mudgett, John	321, 121	5-ea 10	10 00
Mott, Hiram	139	12 1-6	13 00
Mercer, Mrs Susan	98	10	10 00
Mecklenberg, Joseph	165	5	5 00
Mylett, Jamee	52, 53	10-ea 20	20 00
Mylett, James	54	8	8 00
Miller, John	254	5	5 00
Mason, Charles	211	5	5 00
Ogden, Thomas	408	1	1 00
O'Neal, J	337	5	5 00
Pearson, I N	114, 115, 163, 375, 376	5-ea 25	25 00
Pearson, I N	370	20	20 00
Pearson, I N	370	1	1 00
Pearson, I N	372, 373, 374	10-ea 30	30 00
Pilkington, J B	75, 76	20-ea 40	40 00
Pilkington, J B	77	8	8 00
Rutter, Mory &	244	5	5 00
Robinson, J S S	66	10	10 00
Bmittle, John	183	13¾	14 00
Tanner, O	55	10	10 00
Tanner, O	69	15	15 00
Whitton, J J	76	10	10 00
Whitton, Wm H	332	7	7 00
Wines, C B	120	5	5 00
Wyckoff, J L	18	10	10 00
Whitton, E	95	10	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of Olney & Co., 626 Montgomery street, on the 26th day of December, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.

Office, 338 Montgomery street, San Francisco, dec9

Jefferson Gold and Silver Mining Company, Lander County, Nevada.

Notice.—There are delinquent upon the following described stock, on account of assessment No. 2, levied September 25, 1863, of fifty cents; No. 3, December 11, 1863, of 60ty cents; No. 4, February 4, 1864, of one dollar, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	No. 2.	No. 3.	No. 4.	Total Amt.
Brown, J S	130	11				$11 00
Brown, J S	140	9				9 00
Cassell, J F	10	10	$5 00	$10 00		16 00
Clarke & Blakeloy	44	9¼	4 63	9 26		13 88
Curtis, S T	95 to 102	10-ea	40 00	50 00	120 00	
Curtis, S T	103	12½	5 25	12 50	15 75	
Clifford, S O	112	12½			12 50	
Clifford, S O	131	25			25 00	
Clark, H	28	25			25 00	
Clark, H	29	25			25 00	
Clark, H	113	11¼			11 50	
Doling, P F	3	20			20 00	
Denzel, A J	5	10			10 00	
Faulkner, G H	41	5			5 00	
Gilbert, Jos	65	20			20 00	
Gilbert, Jos	66	20			20 00	
Gilbert, Jos	67	20			20 00	
Gilbert, Jos	135	6			6 00	
Gilham, W B	133	7			7 00	
Holman, T	40	5			5 00	
Jacobs, N B & Co	42	10			10 00	
Jones, J L	143	15			15 00	
McCahey, Jas	22	6¾	8 12	6 25	9 37	
Pinkerton, Chas	31	9¼	4 62	9 25	13 87	
Seaver, L B	23	10	$5 00	5 00	10 00	20 00
Seaver, L B	24	10	5 00	5 00	10 00	20 00
Seaver, L B	25	10	5 00	5 00	10 00	20 00
Smith, W K	4	20	10 00	10 00	20 00	40 00
Rex, H V	124	12				12 00
Sweetland, J O	129	5				5 00
Woodford, H C	12	20				20 00
Watson, N A	115	10				10 00
Watson, N A	144	25				25 00
Watson, N A	147	46½				46 50

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of December, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at puhlic auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 8th day of January, 1866, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. dec9

Jewett Gold and Silver Mining Company, Gold Hill District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of December, 1865, an assessment of one ($1) dollar per share was levied upon the assessable capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Friday, the 5th day of January, 1866, will be advertised on Saturday, the 6th day of January, 1866, as delinquent, and unless payment shall be made before, will be sold on Saturday, the 20th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. M. BURNHAM, Secretary Pro tem.

Office, 436 Jackson street (up stairs), San Francisco. dec9

Electrotype Cuts, Engravings, Etc.—Our Job Printing Office is abundantly supplied with elegant engravings, ornaments, and other embellishments to suit the various branches of industry in this State.

Printing for the Holidays promptly executed in any style to suit tradesmen, at our Job Office, 505 Clay street.

Kimblin Ravine Company, Sierra County, California.

NOTICE.—The Annual Meeting of the stockholders of the above Company, for the election of officers for the ensuing year, will be held on the 18th day of December, A. D. 1865, at 3 o'clock, P. M., at the office of the Company, No. 210 Front street, San Francisco.

dec2 H. NIELSON, Secretary.

The above meeting is hereby adjourned till Tuesday, the 26th day of December, 1865, at the same hour and place.

dec19 H. NIELSON, Secretary.

Lady of the Lake Gold and Silver Mining Company. San Francisco District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of November, 1865, an assessment of twenty-five (25) cents per share was levied upon the capital stock of said Company, payable on the 1st day of December, 1865, in United States gold and silver coin, to the Secretary, at his office in San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 15th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary.

Office, Room No. 2 (3d floor), N. E. corner Pine and Montgomery streets. dec2

Leland Gold and Silver Mining Company, San Francisco District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 30th day of November, 1865, an assessment of twenty-five (25) cents per share was levied upon the capital stock of said Company, payable on the 1st day of December, 1865, in United States gold and silver coin, to the Secretary, at his office in San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 15th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary,

Office, Room No. 2 (3d floor), N. E. corner Pine and Montgomery streets. dec2

Lady Franklin Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of December, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the 12th day of December, 1865, in United States gold and silver coin, to the Secretary, at his office, 305 Montgomery street, San Francisco, Cal., or to THOMAS PETERS, at the mine at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 6th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 26th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, San Francisco. dec

Mount Davidson Gold and Silver Mining Company. Location of Works: Virginia District, Storey County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 2d day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Atwill, Jos F	143	5	$5 00
Adsit, L B	3387	35	35 00
Boardman, Thos S	3331	15	15 00
Boardman, Thos S	3408	45	45 00
Buxome, Isaac Jr	1902	15	15 00
Byxhee, John F	1994	5	5 00
Barton, Mrs N	2005	10	10 00
Bunnell, Geo W	2007	5	5 00
Bunnell, Mrs A W	2006	5	5 00
Bissell, S B	2185	20	20 00
Craig, Wm	1926	1	1 00
Craine, Wm	6016	20	20 00
Crone, A	3312	20	20 00
Curtis, Lucien	3317	10	10 00
Derr, C H	14	2	2 00
Dickerson, D E	2101	10	10 00
Dalliba, H S	2198	10	10 00
Dean, J T, Ag't	3390	50	50 00
Dean, J T, Ag't	3391	50	50 00
Dean, J T Ag't	3392	10	10 00
Emmonds, Nath'l	3257	25	25 00
Fisher, Geo	705, 976 1-ea	2	2 00
Fisher, Geo	983	3	3 00
Fell, C	1444	2	2 00
Franklin, Ed	3394	10	10 00
Franklin, Ed	3395	20	20 00
Franklin, Ed	3401	20	20 00
Greenwell, Wm E	1729	50	50 00
Gibbons, P	2140	10	10 00
Gibbons, P	2142	6¼	6 50
Greenfield, John	2184	20	20 00
Garwood, J S	3236	160	160 00
Hardy, B F	1199	5	5 00
Hall, Ed	1529	7	7 00
Hall, Ed	2121	21	21 00
Hyams, Dr L	1887	2	2 00
Hussey, A S	2023	5	5 00
Hickey, H F	3241	3	3 00
Hinchman	2152	25	25 00
Hinchman	2153	25	25 00
Hinchman	2223	25	25 00
Hall, Abie	2218	6	6 00
Hugadorn, A H	3003	25	25 00
Howard, H O	3372	22	22 00
Herbert, H V	3403	593¼	596 50
Irelan, Wm Jr	1911	50	50 00
Irelan, Wm Jr	3404	50	50 00
Joseph, J J	2286	16	18 00
Krause, Wm E F	2147	6	8 00
Krause, Wm E F	2150	3	3 00
Krause, Wm E F	2163	12	12 00
Keith, S A	3	25	25 00
Keith, Sam'l D	1885	5	5 00
Keith, Wm H	327	5	5 00
Keith, Wm H	1836	5	5 00
Keith, Wm H	1571	5	5 00
Keith, Wm H	1572	5	5 00
Lissak, A H Jr	2271	10	10 00
Lissak, A H Jr	2273	10	10 00
Luning, N	2234	112½	112 50
Moore, Ellen E	1527	10	10 00
Moore, S W	1583	5	5 00
Moore, S W	1584	5	5 00
Moore, S W	1602	10	10 00
Moore, S W	1661	25	25 00
Minturn, John	3313	50	50 00
Mel, Louis	2158	30	30 00
Mel, Louis	2159	30	30 00
McConaghey, P	3314	25	25 00
Mitchel, Lewis	2035, 2026, 2037 2038, 2040 1-ea	5	5 00
Murphy, D	3341	00	00 00
Neville, Mrs A E	1853	2	2 00
Northam, E F	2209	52	52 00
Northam, E F	2250	65	65 00
Norton, Sam'l	3250	3½	3 50
Osgood, Wm H	2013	50	50 00
Patch, Geo	1920	20	20 00
Patch, Geo	2248	10	10 00
Patch, Geo	2249	10	10 00
Patch, Geo	2250	10	10 00
Paul, L T	2107	5	5 00
Perry, Jno Jr	3270	12	12 00
Perkins, J H	3398	10	10 00
Perkins, J H	3399	25	25 00
Ploche & Bayerque	3400	5	5 00
Reed, Henry H	1173	10	10 00
Ransom, Mrs A M	1850	5	5 00
Ransom, Miss A J	1851	2	2 00
Rousset, P	2172	38	38 00
Robinson, Sam'l	2040	5	5 00
Schmitt, B L	3292	25	25 00
Smith, Chas A	2214	2	2 00
Stout, A B	2252	15	15 00
Taylor, Oliver	3400	10	10 00
Van Reed, Mrs J H	1856	10	10 00
Wilson, E H	3248	3	3 00
Winship, Edw	3379	100	100 00
Winship, Edw	3380	100	100 00
Winship, Edw	3381	100	100 00
Whitney, Geo O	3387	5	5 00
Whitney, Geo O	3283	5	5 00

And in accordance with law, and an order of the Board of Trustees, made on the 2d day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold, at public auction, by Olney & Co., at No. 626 Montgomery street, San Francisco, Cal., on Wednesday, the 20th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

G. PARDOW, Secretary.

Office, 53 Montgomery Block. dec2

Madison Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 3, levied on the 27th of November, 1863, of fifty cents per share, and No. 4, levied February 4th, 1864, of one dollar per share, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	No. 3.	No. 4.	Total Amt.
Anderson, E O	12	5	$2 50	$5 00	$7 50
Bryant, A J	99	5	2 50	5 00	7 50
Clifford, S O	51	9	4 50	9 00	13 50
Clifford, S O	53	45			45 00
Clifford, S O	54	5			5 00
Clifford, S O	56	5			5 00
Clifford, S O	57	5			5 00
Clifford, S O	58	5			5 00
Clifford, S O	63	71¼			71 50
Clifford, S O	116	14			14 00
Jacobs, N B	75	10	5 00	10 00	15 00
McAllister, P	16	25			25 00
McAllister, P	17	25			25 00
McAllister, P	18	25			25 00
McAllister, P	19	25			25 00
McAllister, P	21	10			10 00
Louis Dionne	130	10			10 00
Morrison, J C Jr	98	5	2 50	5 00	7 50
McHarg, D P	106	10			10 00
Pryor, C M	46	40	20 00	40 00	60 00
Pryor, C M	37	5			5 00
Plummer, B L	83	10			10 00
Spitzer, L A	120	5	2 50	5 00	7 50

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of December, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at auction, at the office of the Company, by Jones & Beudixen, auctioneers, on the 6th day of January, 1866, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C FASSETT, Secretary.

Office, 402 Front street, San Francisco. dec9

Orleana Quicksilver Mining Company— Location: Lake County, California.

Notice is hereby given, that the Annual Meeting of the stockholders of the Orleana Quicksilver Mining Company, will be held at the office of J. M. Buffington, No. 10 Government House, corner Sansome and Washington streets, San Francisco, on Saturday, December 30th, 1865, at 3 o'clock, P. M., for the election of Trustees, and such other business as may be presented.

CHAS. ROHRLE, President.

San Francisco, Nov. 30, 1865. dec2

Paragon Petroleum Company — Location of Works: Mattole District, Humboldt County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of December, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and and silver coin, to the Secretary, at the office of the Company, No. 206 Jackson street, San Francisco.

Any stock upon which said assessments shall remain unpaid on Saturday, the 6th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 26th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

M. J. McMANUS, Secretary.

Office, No. 206 Jackson street, San Francisco. dec9

Siempre Viva Silver Mining Company, Zaragora District, Sinaloa, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of December, 1865, an assessment of two dollars and fifty cents ($2,50) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, 318 California street, up stairs.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 20th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOHN F. LOHSE, Secretary.

Office, No. 316 California street (up stairs), San Francisco, California. dec2

Simpson Mining and Milling Company, Mokelumne and Excelsior Districts, Alpine county, State of California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 30th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
James Ludlow	not issued	100	$25 00
Ed Mickle	not issued	100	25 00

And in accordance with law, and an order of the Board of Trustees, made on the 30th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at their salesrooms, No. 629 Montgomery street, San Francisco, Cal., on Saturday, the 10th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

T. B. CUNNINGHAM, Secretary.

Office, No. 55 Montgomery Block, S. E. corner Montgomery and Washington streets, San Francisco. dec2

Table Mountain Copper Mining Company, Copperopolis, Calaveras County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 1st day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Bowman, E P	133	5	$2 50
Bowman, E P	161	0	3 00
Bowman, E P	209	12	6 00
Bowman, E P	212	4	2 00
Bowman, E P	235	3	1 50
Burk, John	171	29	14 50
Buzzolini,	287	5	2 50
Crowell, Geo E	319	8	4 00
Davis, G B	90	10	5 00
Davis, G B	100	4	2 00
Davis, G B	128	11	5 50
Demill, E G	228	25	12 50
Demill, E G	229	11	5 50
Dorlaud, Thomas	239	50	25 00
Elmore, M Gago	288	1	50
Elmore, Mrs Ada S	92	10	5 00
Elmore, John N	287	10	5 00
Geddis, Wm H	33	16	8 00
Geddis, Wm H	34, 35, 36, 37, 38 10 ea	50	25 00
Huntoon, W M	284	50	25 00
Honisberger, L	131	100	50 00
Hale, Calvin H	165	5	2 50
Hale, Calvin H	336	20	10 00
Hinchborn, J E	196	15	7 50
Jackson, J G	155, 176 50-ea	100	50 00
Linsley, E W	146	10	5 00
Lovell, James M	283	5	2 50
Lovell, James M	343	6	4 00
Minturn, W B	285	2	1 00
Mason, N H A	143	133	50 50
Monagha, Bridget	274	10	5 00
Newby, Richard	240	57	28 50
Newby, Richard	245, 301, 302 20-ea	60	30 00
Newby, Richard	254, 271 50-ea	100	50 00
Newby, Richard	247, 303, 304 305, 307 10-ea	50	25 00
Newby, Richard	306	3	1 50
Pentland, Henry	206	25	12 50
Swett, Daniel	224	15	7 50
Swett, Daniel	225, 245 10-ea	20	10 00
Swett, Daniel	273	5	2 50
Swett, Daniel	322	50	25 00
Van De Water, R J	136	30	15 00
Van De Water, R J	156	4	2 00
Van Vlack, Henry	277	15	7 50
Van Vlack, Henry	289	5	2 50

And in accordance with law and an order of the Board of Trustees, made on the 1st day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., at No. 626 Montgomery street, San Francisco, Cal., on Monday, the 16th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

EDWARD C. LOVELL, Secretary.

Office, 436 Jackson street, San Francisco. dec2

United States Gold and Silver Mining Company.—Mine located in Ravenswood and Santa Fe Districts, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 23d day of November, 1865, an assessment of one dollar and five cents ($1.05) per share was levied upon the capital stock of said company, payable on the 25th day of November, 1865, in United States gold coin, to the Secretary, at his office.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 15th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

Office, 516 Merchant street, San Francisco, Cal.

Shareholders who have paid the former assessments, or who have advanced money to the Company, will be credited for the same upon this assessment.

de2 T. L. BIBBINS.

Notice.—The Annual Meeting of the Stockholders of the UNITED STATES MINING COMPANY, will be held at the Office of the Company, on Monday, December 25th, 1865, at 3 o'clock, P. M.

J. M. BUFFINGTON, Secretary.

San Francisco, November 25th, 1865. no25

United States Mining Company—Location, Virginia, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 15th day of November, 1865, an assessment of fifty cents per share was levied on each and every share of the capital stock of said Company, payable immediately, in gold or silver coin of the United States, to the Secretary, at his office, or to F. A. MARSTON, Virginia, Nevada.

Any stock upon which said assessment shall remain unpaid on the 16th day of December, 1865, will be advertised as delinquent, and unless paid, will be sold on Saturday, the 30th day of December, 1865, to pay said delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. M. BUFFINGTON, Secretary.

Office, No. 10 Government House, corner Sansome and Washington streets, San Francisco, Cal. nov18

Yankee Blade Mining Company, Reese River Mining District, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 6th day of December, 1865, an assessment of fifteen (15) dollars per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 29th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. T. ATWOOD, Secretary.

Office, No. 329 Montgomery street (Stevenson House), San Francisco. dec9

Zenith Gold and Silver Mining Company, Mountain Ranch District, Calaveras County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 6th day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	Amount of Assessm't.	Paid thereon.	Balance Due.
Angier, W R	212	10	$32 50	$12 50	$20 00
Booraem, H T	6	25	81 25	43 75	37 50
Booraem, H T	7	25	81 25	43 75	37 50
Booraem, H T	8	25	81 25	46 75	34 50
Roornem, H T	9	12	39 00	24 80	14 40
Booraem, H T	10	10	32 50	17 50	15 00
Bell, John P	59	12	39 00	17 40	21 60
Beers, H M	89	10	32 50		32 50
Bernard, Robert	218	10	32 50	26 00	6 50
Burr, A E	222	23	71 50	58 00	13 50
Barnes, W F	245	87	282 75	130 50	152 25
Crowe, C A	27	25	81 25	18 75	62 50
Coulter, James	80	10	32 50	22 50	10 00
Cooper, J H	201	3	9 75	1 35	8 40
Cooper, J H	212	7	22 75	3 15	19 60
Davis, Chas H	200	2	6 50	90	5 60
Franklin, E	1	25	81 25	6 25	75 00
Franklin, E	2	25	81 25	6 25	75 00
Franklin, E	3	25	81 25	18 75	62 50
Franklin, E	4	12	39 00	29 00	10 00
Fox, J W	93	8	26 00	14 00	12 00
Fuller, Geo W	204	6	19 50	1 50	18 00
Fuller, Geo W	205	6	19 50	1 50	18 00
Fulton, J M	217	5	16 25	11 25	5 00
Graham, Edw	215	2	6 50	1 00	5 50
Hunt, R W	32	25	81 25	6 25	75 00
Hunt, R W	33	25	81 25	6 25	75 00
Holzheimer, H	36	25	81 25	39 75	41 50
Holzheimer, H	39	12	39 00	19 60	19 40
Holzheimer, H	40	10	32 50	15 50	17 00
Harris, Alf	133	12	39 00		39 00
Harris, Alf	159	12	39 00		39 00
Harley, C	140	23	74 75	8 40	66 35
Hinds, John F	146	10	32 50	22 50	10 00
Hinds, John F	194	15	48 75	30 50	18 25
Hall, J H	156	10	32 50	25 50	7 00
Hewitt, Agnes	195	5	16 25	11 50	4 75
Hall, Mary G	206	5	16 25	11 25	5 00
Hamilton, H M	210	62	201 50		201 50
Hamilton, H M	215	20	65 00	5 00	60 00
Hunt, J A	226	10	32 50	26 00	6 50
Johnson, Geo H	25	10	32 50	15 00	17 50
Jonnson, A P	224	5	16 25	11 25	5 00
Johnson, Eben	239	10	32 50	22 50	10 00
Jones, Wm C	116	5	16 25		16 25
Knapp, W H	91	12	39 00	33 00	6 00
Lyon, W S	105	5	16 25	3 75	12 50
Lyon, W S	185	5	16 25	12 75	3 50
Lyon, W S	187	7	22 75	10 50	6 25
Lewis, L L	114	10	32 50	2 50	30 00
Lewis, L L	207	14	45 50	3 50	42 00
Longfellow, E N	163	10	32 50	2 50	30 00
Lentz, Wm H	199	2	6 50	3 00	2 50
Lentz, Wm H	225	3	9 75	6 85	2 90
Moon, Geo C	13	25	81 25	20 25	81 00
Maxon, W B	139	12	39 00	2 40	36 60
McKee, D R	168	13	42 25	29 90	12 35
McKee, D R	169	10	32 50	30 50	2 00
Mann, John	189	20	65 00	6 00	59 00
Mitchell, F S	223	55	178 75	3 75	175 00
Mitchell, F S	237	25	81 25	11 25	70 00
Norton, Samuel	143	10	32 50	25 50	7 00
Nourse, E F	244	20	65 00	35 00	30 00
Osborne, W F	51	25	81 25	18 75	62 50
Osborne, W F	53	25	81 25	18 75	62 50
Partridge, H C	124	10	32 50	24 00	8 50
Perkins, J G	126	5	16 25	1 25	15 00
Perkins, J G	135	5	16 25	1 25	15 00
Perkins, J G	147	10	32 50	21 00	11 50
Perkins, J G	149	10	32 50	2 50	30 00
Potter, John	241	10	32 50	12 50	20 00
Reed, J C	16	25	81 25	55 25	25 00
Reed, J G	17	25	81 25	56 25	25 00
Reed, J G	18	25	81 25	55 25	25 00
Reed, J G	19	12	39 00	27 00	12 00
Reynolds, H D	112	2	6 50		6 50
Reed, Gilman	152	5	16 25	1 25	15 00
Regensberger, H	228	10	32 50	22 50	10 00
Regensberger, H	229	5	16 25	13 25	3 00
Regensberger, H	230	10	32 50	20 50	12 00
Regensberger, H	231	15	48 75	35 75	13 00
Regensberger, H	232	50	162 50	120 00	42 50
Regensberger, H	233	2	6 50	5 50	1 00
Stratton, E N	130	5	16 25	1 25	15 00
Thompson, John	145	5	16 25	4 25	12 00
Torning, A	190	10	32 50	16 50	16 00
Tomlinson, C A	196	5	16 25	12 25	4 00
Tomlinson, C A	220	10	32 50	26 00	6 50
Taylor, C M	221	10	32 50	27 00	5 50
Tilden, A F	248	30	97 50	40 50	57 00
Vizina, J M	227	10	32 50	20 00	6 50
Wilmot, W	96	5	16 25	1 25	15 00
Wilmot, W	97	5	16 25	1 25	15 00
Wilmot, W	174	10	32 50		32 50
Waters, Saml J	121	20	65 00	54 50	10 50
Waters, Saml J	156	12	39 00	33 00	6 00
Wrede, D	142	5	16 25	10 25	6 00
Wilson, C	181	5	16 25	1 25	15 00
Wood, Charles	196	5	16 25	11 25	5 00
Wilzinski, Saml	214	5	16 25	13 75	2 50
Winter, Sarah	240	5	16 25	13 75	2 50

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at auction, by Olney & Co., at the office of the Company, No. 7 Stevenson Block, San Francisco, Cal., on the 23d day of December, 1865, at 12 o'clock M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

M. G. ELMORE, Secretary.

Office, No. 7 Stevenson Block, corner Montgomery and California streets, San Francisco. dec9

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can secure all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible.

How to tell the Age of a Horse.—When the incisor or cutting teeth of the horse (called in man the front teeth) first protrude through the gum, their top face is not smooth, the edges are elevated, and the centre depressed. The depression in the cutting surface is called the *fossula*. The fossula is not subjected to friction during the mastication, owing to the edges of the tooth. The fossula, therefore, soon becomes black, and the black spot thus left is called the "mark." In time the elevated rim of enamel wears down, the cutting surface of the tooth becomes flat, and as a consequence, the whole surface is exposed to attrition, and the mark disappears. The time occupied in wearing away the mark is pretty uniform—about three years. Now, since we know about the age at which the teeth are put up, and about the time that the mark remains, we can calculate about the age of the horse so long as marks are left. At the age of three, the second set, or permanent teeth, are put up in the centre; and after this, one pair of permanent teeth appears every year till the age of five. The central pair of incisors consequently loses its mark on the attainment of the sixth year; and the pairs which appear in the fourth and fifth year lose their mark in the seventh and eighth. After the eighth year there is no accurate means of estimating the age of the horse; therefore, all horses over eight years are technically termed "aged"—aged, that is, not as regards the decline of the vital energies, but simply as regards the wearing out of their marks.—*Chamber's Journal.*

A dwarf elephant, about as large as a Newfoundland dog, will soon arrive in New York for Barnum. It cost $11,200.

Copper, Lead, Gold, Silver,

Nickel and Cobalt Ore.

The above Ores are either purchased or liberal advances made upon consignments, at the lowest British rates of interest. For particulars apply to

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Agent for Townshend, Wood & Co., Swansea,

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QUARTZ OPERATOR'S

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A Book for Every Intelligent Prospector, Shareholder, Miner and Machinist.

ZENAS WHEELER AND P. M. RANDALL,

Authors and Publishers.

Bound in Cloth—144 Pages, Duodecimo.

The Quartz Operator's Hand Book is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

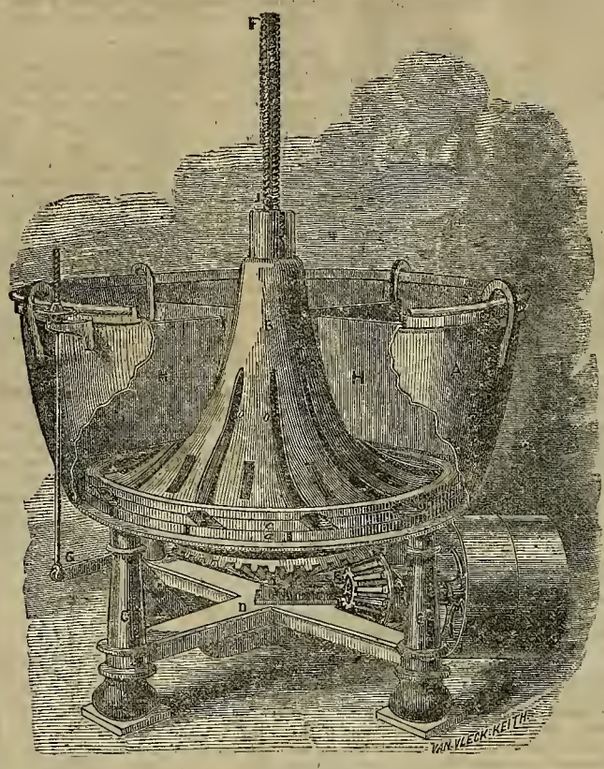
The work also contains an original and highly interesting discussion of the tractory and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs. W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Belshaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable Quartz Miner's Hand Book.

The Table of Contents of this book will be found on page 415 of the Mining and Scientific Press of July 1st, 1865.

Sold by booksellers generally. Price by mail, postage paid, $1.25. Address "Wheeler & Randall, at the Mining and Scientific Press Office, San Francisco." 2v11



THE EXCELSIOR GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and o, Openings.

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

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Union Iron Works and Golden State Iron Works,

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

San Francisco, June 13, 1865.

WILLIAM PENROSE,

Agent for Messrs. Vivian & Son and Dillwyn & Co., Smelters at Swansea,

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A GENTLEMAN OF MUCH EXPERIENCE AS A MINING Superintendent, in England, Spain, and on the Pacific coast, and one intimately acquainted with every department of mining, and with nearly every class of mineral, is desirous of securing a position as Superintendent of some mining operation in California or Nevada. The applicant was for four years Superintendent of the New Almaden Quicksilver Mine, in this State. The best of reference given on application at this office.
San Francisco, Oct. 12, 1865 .5v11tf

OIL WELL BORERS.

A CONTRACT WILL BE LET TO A RESPONSIBLE party to sink an Oil Well, as deep as may be required, on land belonging to the "Eel River Oil Company," situated in Humboldt county, Cal. For particulars, inquire at the office of the Company, No. 436 Jackson st., up stairs.
12v1t-1m E. B. WILSON, Secretary

Book Printing should be considered and treated as one of the higher branches of the "Art of Arts," and its execution entrusted only to experienced and intelligent workmen. Strict attention will be given to all orders for Book and Pamphlet Printing entrusted to the Mining and Scientific Press Job Office.

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San Francisco, March 6, 1865. 11v10-tf

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Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1229 San Francisco. 2v11

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At the Lowest Market Price.

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ANOTHER AMENDMENT to the Constitution of the United States is proposed, which contemplates the constant succession of the Vice President to the Presidency. A President and Vice President are elected. At the end of four years, the former retires and the latter takes his place. Of course at each subsequent election only a Vice President is chosen. In this way the one-term rule is adopted; the Vice President is selected with special reference to his fitness for the first position, and for four years he is being educated for the vast responsibilities he is to assume.

THE discoverer of nicotine, Chevalier Gaspare Cerioli, died recently at Cremona.

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

New Volume

—OF THE—

Mining and Scientific Press

Issued every Saturday. Each number contains 16 pages and 64 columns (size of Harper's Weekly).

PUBLISHED BY

DEWEY & CO.,

Patent Agents, Publishers and Job Printers
505 Clay Street, San Francisco.

THE ELEVETTH VOLUME

Of the MINING AND SCIENTIFIC PRESS commences under advantages most gratifying to its publishers, who assert, with pleasure, that a continued improvement in this journal may be anticipated by its numerous and rapidly increasing readers.

We shall continue to devote a large space in our columns to the various and best methods of treating ores and saving gold and other precious metals in every form, furnishing valuable hints to millmen, prospectors, oil-workers and miners generally, not to be found in any other publication.

New machinery, latest inventions and discoveries, and all matters pertaining to the mechanical, manufacturing and industrial resources of the Pacific States, will receive careful attention.

Stock market reports will be published as received from the official records. Our carefully compiled "Mining Shareholders' Directory" will prove a faithful monitor to parties holding stock, and a desirable record for reference to brokers.

Friends pleased with our efforts in the publication of the PRESS can render us essential aid by furnishing correspondence and all important information which may come under their observation, and by calling the attention of their neighbors to the commendable features of the paper; the appreciation of which favors will be duly manifested by the constant improvement of our journal.

Specimen copies will be sent free to those desiring to examine the paper before subscribing. Postmasters, Express Agents and News-dealers, acting as our agents, will receive liberal commissions.

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Can now be procured, at the Patentee's price, by sending your orders, by mail or otherwise, to the

Office of the Mining and Scientific Press.

This article was more fully mentioned in the PRESS of April 15th, 1865. Since that time, however, Mr. Hendy has made a further improvement by attaching a rubber hose between the mouth-piece and the pipe, enabling the blowar to change his position without disturbing the direction or constant accuracy of the current on the object upon which it is turned. The main portion of the blow-pipe is made with a joint, at which a valve is placed, which is opened when the operator blows and closed immediately when he ceases. By this arrangement the little bag or bladder is readily filled at a single breath, and with very little exertion. When so filled, a continuous current of air is forced from the nozzle of the pipe by the mere contractive force of the gutta percha. This force is uniform until the air is very nearly exhausted. The current may be easily varied or entirely cut off by gently pressing the fingers upon the neck of the bladder above the nipple to which it is attached.

Price, Complete.....$5.00.
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Machinery.

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PREMIUM
CONCENTRATOR, AMALGAMATOR
AND SEPARATOR,
Awarded a Silver Medal at the late Mechanics' Fair.

HUNTER'S CONCENTRATOR CAN BE SEEN IN OPERation daily at the Novelty Iron Works, Fremont street. Parties wishing to purchase Concentrators will find it to their advantage to examine the above machine before purchasing elsewhere, for the following reasons:

1st. It will work the sands from a 5-stamp battery, and save from 10 to 30 per cent. more sulphurets than any machine built on the Pacific coast.

2d. The Sulphurets are washed clean, containing less than ten per cent. of sand.

3d. The waste free gold and amalgam is amalgamated on the copper plates; no trace of ground mercury and scarcely a trace of metal passes off with the sand.

4th. Its simplicity is a sufficient recommendation for its general use as a Concentrator. The variation of speed in a Quartz Mill does not effect the working of the Machine. The same was demonstrated at the late Mechanics' Fair, when with the greatest IRREGULARITY OF SPEED the best of results were given.

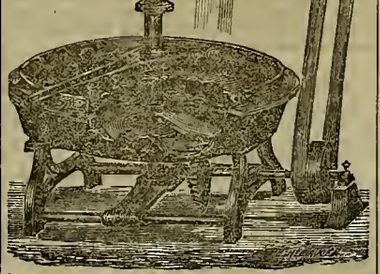
5th. There is no clogging or stopping to clean out the sulphurets and sand; consequently no waste from any inattention on the part of the attendant.

6th. In exhibiting the working of the machine (it is not run empty) all classes of ores and tailings, from 50 pounds and upwards, are concentrated that parties may see fit to test the machine with.

Give it a trial, and satisfaction is guaranteed. All orders and any information required, address,

ANDREW HUNTER,
Novelty Iron Works, Fremont st., San Francisco,
15v11-3m Or to E. T. STEEN, Agent.

BAUX & GUIOD'S
Separator & Amalgamator



Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jefferson-Ian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crail's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works, Miners' Foundry and San Francisco Foundry, San Francisco, and at Heugh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,
Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8-6df

BLAKE'S
QUARTZ BREAKER
Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA, AUSTRALIA,
WASHOE,
ENGLAND, FRANCE,
—AND—
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,
Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.
4v10

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th. [Illustrated in the Mining and Scientific Press, April 8th, 864.]

HEPBURN & PETERSON.
nov8 3m*

HUNT'S PATENT
Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,
7v10 23 Second street, San Francisco

The Mechanics' Institute
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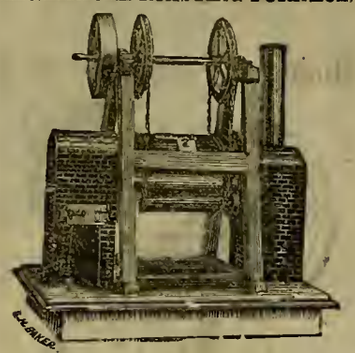
PREMIUM SILVER MEDAL
TO BRUCKNER'S
MECHANICAL ROASTING FURNACE.



Parties wishing to erect such Furnaces, are requested to leave their orders with

T. KALLENBERG,
12v11 416 Market street, San Francisco.

HUNT'S
IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN
HORSE POWER
For Sawing Wood.
ALSO, THE
Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

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No. 23 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

DENIS WHELAN,
Fashionable Boot Maker
REPAIRING NEATLY DONE, AT SHORT NOTICE.
No. 17 Fourth Street,
Near Market street, San Francisco.
15v10-1m*

Stevens' Pressure Packing.

Patented March 7th, 1865.

Pressura Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

STEVENS' PACKING has the advantage of being cheaper in first cost than the ordinary packing, and can be applied to old style pistons with very little alteration or detention. In place of testimonials, the Patentee requests of those who are using the old spring packing to inquire of the owners of the various engines which now have this packing in use—some of which have been running from three to twelve months without being opened, or showing any descriptive leak—and act upon their recommendation.

Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Alameda Railroad, or at the VULCAN IRON WORKS, where they can be seen, at any time, in course of construction.

10df **ANDREW STEVENS.**

SALMON'S
PROPELLOR AMALGAMATOR
—AND—
Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

9v11 **J. & W. C. SALMON.**

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CUMULATIVE POWER PRESS
AND
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E. C McCOMB, Agent.
No. 1 Government House, cor. Sansome and Washington sts.
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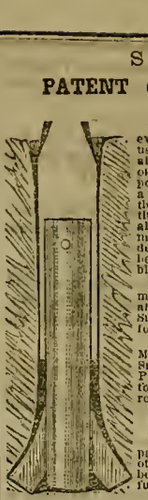
STOW'S
PATENT CHAMBER DRILL.



The greatest Labor-saving Machine ever invented for Quartz Mining. By using this Drill a shaft, tunnels, and all other rock blasting, three-fourths of the labor and over one-half of the powder will be saved. The Drill makes a chamber directly at the bottom of the hole, at any depth you wish, six times the area of the original hole, in all kinds of rock, in less time than a man can drill a 1½ hole two inches deep. Requiring no tamping, it will be impossible to have a premature blast.

AT THE STATE FAIR held in Sacramento, September, 1865, a Committee, after examining both the Lincoln's and Stow's Chamber Drills, reported as follows:

We, the undersigned, Committee on Mining Tools, do award to Henry M. Stow, of San Francisco, the FIRST PREMIUM for the best Chamber Drill for blasting rock, for the following reasons:

1st. For simplicity of construction.
2d. For durability of drill;
3d. For strength of drill.

The above Drills will be sent to any part of the State for $30, with one set of Cutters or Chisels that will chamber from 75 to 150 holes. Extra Chisels furnished at $2 50 per set.

The Drill may be seen at Mr. BUFFINGTON'S Office, No. Government Block, corner Sansome and Washington streets, and at No. 511 Market street.

Drills will be delivered to any part of this State free of expense to the purchaser. Any information desired, or orders for Drills, address

STOW & COLLINS,
San Francisco

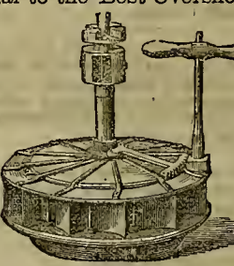
Oil Wells! Oil Wells!!

I received at the last STATE FAIR a special Premium for the best Expanding Drill for boring oil wells. The above Drill will bore the hole from ¼ inch to 2 inches larger than the inside of the pipe or tubing of the well, if desired, making the bore perfectly straight and round. The Drill can be attached to and work with any common drill at an expense of from $25 to $50. I will furnish all machinery for boring, or will take contracts for boring wells, and furnish steam engines and all tools required. Address,

HENRY M. STOW,
14v11 San Francisco.

WATER WHEELS!
Equal to the Best Overshot Wheel

POWER PLEDGED



IN EXISTENCE.

LEFFEL'S
AMERICAN DOUBLE TURBINE

Is now manufactured by the Vulcan Iron Works Company, in this city, and orders for the same can be filled immediately. We have a large supply of the different sizes, from 10 inches to 30½. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 150 to 300 pounds, will yield from 10 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to

LEFFEL & MYERS,
At Vulcan Iron Works, office 137 and 139 First street, San Francisco. 4v11tf

VARNEY'S
PATENT AMALGAMATOR.
These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constant and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The carved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ores is reduced to an impalpable powder, and the metal amalgamated.

Setlers made on the same principle excel all others.—They bring the pulp so constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and setlars for themselves, at the **PACIFIC FOUNDRY,**
1v1 San Francisco.

MITCHELL'S
COMBINED
FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with GALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.
San Francisco, Aug. 22d, 1865. 10v11-3m

At a recent fireman's parade in Philadelphia, *fifty-seven* steam fire engines appeared in the procession.

There are 3,612 "whisky mills" in San Francisco, which cost the people more than all the churches and schools in the city.

Five hundred tanned deer skins have been sent, within the last month, from Trinity county to Marysville and a market.

Mrs. Sigourney is to have a monument erected at Hartford. She has written, it is said, twenty-two hundred poems, during the war, to private soldiers.

New York city crowds its population of about a million into 55,000 houses. Philadelphia, with less than seven hundred thousand people, has 100,000 houses.

Our brains are seventy year clocks. The angel of life winds up once for all; then closes the cases, and gives the key into the hand of the angel of the resurrection.

We like the story of a blacksmith, who was requested to bring a suit for slander. He said he could go into his shop and hammer out a better character than all the Courts in the State could give him.

A cotemporary has hit it in saying, "when lawyers make short deeds and mortgages, and physicians write prescriptions in English, many ancient humbugs will be exploded." Two, if not many.

A party of young men, a short time since, while digging for roots some miles north of Vincennes, Indiana, discovered an old leather sack containing $7,000 in gold and $8,000 in silver. It is supposed that it had been concealed there by robbers.

A second great artesian well, flowing 290,000 gallons daily, has been struck at Chicago. Its diameter is five inches, though the intention is to enlarge it to twenty-two inches, at which size it will have a discharge capacity of seventeen millions gallons daily.

The famous Dutch Gap Canal is to be turned to the peaceful uses of commerce and trade, by the citizens of Richmond, who are about to increase its width and depth to an extent sufficient to admit the passage of the largest vessels and steamers.

RUGGLES' PRINTING PRESS

For Sale or Exchange.

The Proprietors of the Mining and Scientific Press have on hand a Half Medium Ruggles Engine Job Press, in condition good as new, which will be sold cheap, or exchanged for a good Hand-Press of medium or large size.

DEWEY & CO., Job Printers,
Office, 505 Clay street.

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Facts that can be Proved:

One Pound of the Standard Soap Co.'s CONCENTRATED ERASIVE WASHING POWDER will do the work of two pounds of Bar Soap, saves half the time, labor and expense; does not injure the clothes, but turns them out sweet and clean. No additional Soap needed; works equally well in hard and soft water; excellent for woolens, as it contains no resin; splendid for dishes, milk cans and dairy fixtures. Ten pounds will produce a barrel of fine Soft Soap in ten minutes.

Manufactured and put up, with full directions for use, in pound papers and packages of 10, 12 and 24 lbs., by the

STANDARD SOAP CO.,
23v11-1m 207 Commercial street San Francisco.

Spectacle Emporium.

Purchase none but perfect Spectacles adapted to your sight, from

C. MULLER,
OPTICIAN,

No. 3 Montgomery street, Masonic Temple, San Francisco.
Old Frames reset with suitable Glasses or Brazilian Pebbles. 15v11-2m

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Compiled by H. B. CONGDON.

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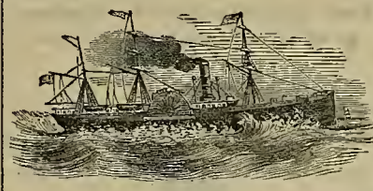

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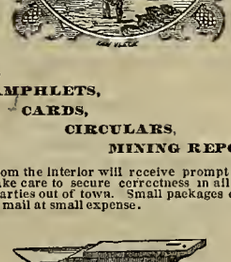

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1852. 1865

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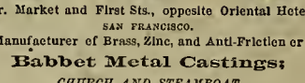

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For Panama.

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A Baggage Master will be sent through each trip.

Cabin passengers will be berthed for Atlantic steamer.

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NEW PUBLICATIONS.

SHERMAN'S MARCH THROUGH THE SOUTH; with Skelches and Incidents of the Campaign, by Capt. David P. Conyngham. Laws, Brewer & Co., General Agents for Subscription Publications, northwest corner of Washington and Sansome streets, San Francisco.

This is a well-written and interesting narrative of Sherman's campaigns from the time that General succeeded General Grant as commander of the Army of the Mississippi, including the terrible battles between Chattanooga and Atlanta, and the ever memorable "March through Georgia," and thence up the coast into North Carolina, where the last great army of the rebellion, under Johnston, surrendered to the gallant Sherman. The work has been written by a "war correspondent," who was with the gallant heroes who have added these brilliant pages to our country's history, and who knew personally of what he wrote. He had, moreover, received a previous schooling in the same capacity with the great Army of the Potomac. The narrative is written in a free-and-easy style, entering much into the minutia of camp life, and giving numerous graphic descriptions of incidents which have never yet found their way into print, and which, though they are of the greatest interest to present readers, could never find their way into the ponderous pages of "legitimate history." The work possesses all the charms of a romance, with the added interest of being an authentic narrative of the greatest and grandest events which the world has ever witnessed. It is published and sold by subscription only, by Messrs. Laws, Brewer & Co., sole agents for this coast. Three numbers only were received by the last steamer; but a full supply will be at hand by the next arrival. Messrs. L. B. & Co. are also subscription agents for the "Scout & Ranger," the same being "The Personal Narrative of Corporal Pike, of the Fourth Ohio Cavalry." This is a thrilling description of the personal adventures of a Ranger in the Indians wars, by one who was subsequently a scout and spy in Tennessee, Alabama, Georgia and the Carolinas, with numerous engravings, which, with the text, is fully illustrative of the "scout service."

A STEAMSHIP RACE FROM NEW YORK TO SAN FRANCISCO.—The Nicaragua Opposition put on their best steamer at New York, for the last trip, determined, if possible, to beat the P. M. S. Co.'s line to San Francisco. The latter company, however, easily beat the opposition, coming in more than two days ahead, and making only regular time. The Pacific Mail Steamship Company is one of the best appointed ocean lines in the world.

AN OPINION FROM DR. JACKSON.

It will be recollected that Dr. C. T. Jackson, of Boston, during his late visit to this State, visited the oil regions of Santa Barbara, in his professional capacity, as a mining expert. His observations being made on private account, were not published here, but were sent East. By the last mail we are in receipt of the following, which we clip from the N. Y. *Stockholder*, as the only public expression of the Doctor's views, with regard to our oil deposits, which we have yet met with. The article is an extract, and appears to be the "summing-up" of the results of his observations. It reads as follows:

From analogy, it seems probable that petroleum should occupy the same relation to the coal formation of the tertiary age as those of the Eastern States bears to the true coal formations, and hence we ought to expect it to be found in the lower portions of the tertiary and on the cretaceous rocks. It is certain that it comes through the tertiary, and is most abundant near the junction of the tertiary with the cretaceous strata, and particularly where there are fractures of these strata or marked dislocations. From these considerations, it would appear probable that petroleum will be found to a considerable depth, and if there are cavities and pent-up gases, the petroleum will be forced up when these oil-containing strata are pierced by the artesian auger. If the gases are not retained under compressure, the rising water of the springs will bring the petroleum which floats on its surface up the tubes of the bored wells, and it may be raised by pumps. Thus far the evidence seems to be that all the petroleum-springs which pour from the mountain-sides are brought to the surface by rising springs of water, and the open condition of the strata, which are here inclined, (while those of the Eastern States are mostly horizontal,) allow the gases too free exit to admit of their acting by their elasticity to raise the petroleum to the surface; but there will, undoubtedly, be found some localities where the gases are really pent-up. I am therefore of the opinon that the prospects here are favorable, and that there is reason to believe that good oil-springs will be opened.

We infer from the above that Dr. Jackson, in common with all who have carefully examined the geology of the Pacific coast, is of the opinion that the true coal measures, as they are developed in the Atlantic States and in Europe, are wanting on this coast; but, that in their stead we here find the lignites and semi-bituminous coals among the tertiary and cretaceous rocks—formations of much more recent geologic age than the true coal measures which date back to a much earlier period, and which are older than even the gold bearing rocks on the western flanks of the Sierra Nevada, are by many *supposed to be*. The Doctor, if we understand him in the above extract, supposes that the *oil* rocks, as well as coal bearing rocks of California, also belong to a system much more recent than the oil strata of the Atlantic States, and one corresponding to our peculiar system of coal measures. We suppose further, from the above, that it is legitimate to infer that he thinks the yield of oil in California will bear a relation to the Atlantic yield, something similar to the proportionate coal development of the two regions.

This inference, it must be admitted, is rather to our disadvantage, although it by no means should lead us to conclude that we may not obtain oil here in paying quantity; the Doctor, indeed, expressly intimates that he thinks we shall do so. There is one fact in our favor, however, quite well established—which is that the crude oil of California, as a general thing, is quite superior in quality to that obtained at the East; and it may be, that, unlike wine, age (which the oil has obtained at the East) is not favorable for petroleum. Moreover, it is generally acknowledged that the geology of California is, as yet, but imperfectly understood by any save the members of the State Geological Survey, where reticence upon the subject warrants the supposition that *they*, perhaps, may be in possession of important facts not generally known to those who have employed them to gather such information for the benefit of the people. What we may learn from the forthcoming second volume of the Geological Reports is yet a mystery; but we are assured, most positively, that the volume will be placed before us on the arrival of the "next steamer," when we hope to be more thoroughly posted. In the meantime, as for two or three years past, our oil borers and coal and gold seekers are "going it blind." Perhaps their perseverance and industry may yet lead to discoveries which shall astonish the *savans*—who knows!

"THE LUCKY" MINE IN GRASS VALLEY.—We have been shown, by Mr. D. O. Osborne, one of the proprietors of the above named mine, now in this city, a private letter dated at Grass Valley on Tuesday last, and written by another member of the company, stating that they had just obtained the result of the first week's crushing of ore taken from the new level, which has recently been opened about a hundred feet below the previous workings. The amount of bullion was 180 ounces of retorted amalgam, worth fully $3,000. The amount of rock crushed could not have exceeded 65 tons, which would indicate a yield of over $45 to the ton. Taking the locality of this mine into account, and the facilities presented for its being worked extensively, when properly opened, and its uniform yield up to the present time, we doubt whether anything can be found, in all the State of Nevada, which can equal it. The development of this lower level puts the value and permanency of the mine almost beyond the possibility of a doubt. It is a "lucky" mine, indeed.

NOBEL'S PATENT BLASTING OIL.—We have devoted a large space in our columns to-day to the constitution and peculiar properties of Nobel's patent blasting oil, and an illustrated description of the manner of employing it for mining purposes. The extracts which we give are from a pamphlet now being printed at the MINING AND SCIENTIFIC PRESS Job Printing Office, for Messrs. Bandman & Nielson, the agents on the Pacific coast for this new and extraordinary blasting material. The great interest which attaches to this new discovery, and the important practical bearing which it promises to exert upon our great leading industry of mining, is amply sufficient to call for the space allotted to it. We commend its careful perusal to our mining cotemporaries and readers generally. The work in publication gives testimonials from the highest European sources, of the success of this new blasting agency in its practical application to mining and quarrying.

AN EXTRAORDINARY SPELL OF WEATHER.

There is no parallel in the experience of the "oldest inhabitant" hereabout, for the long continuance of the extreme cold weather which has lasted now over two weeks, without wind, and from no apparent cause. There has been snow in Sacramento two or three inches deep, and an unusual quantity in the mountains, and ice has formed in this city over half an inch thick. The Columbia river, in Oregon, has been frozen over; and there has been so much ice in that river as to materially interfere with the movements of the steamers. The telegraph informs us that the steamer was unable to reach the Cascades on Tuesday last, and had to return down the river. It also announces that the same extraordinary degree of cold is prevailing throughout the Atlantic and Western States. The Mississippi has been frozen over at St. Louis, and deaths from freezing are of frequent occurrence; while an unusual number of conflagrations have occurred from overheated stoves and flues. Reports of a like character are also beginning to reach us from Europe. The barometer in this city, for the last two weeks, has manifested most unusual perturbations, often falling to the lowest storm point, and then suddenly rising again to a fair weather indication; repeating these variations, at times, twice or thrice in a single day, and yet without any perceptible change in the atmosphere which might be supposed to cause such unusual variations. At the present time of writing, Friday, 5 P. M., the barometer stands lower, we believe, than ever known before in this city. It has been supposed by some that these barometrical variations and this unusual cold weather may be due to a peculiar electrical condition of the atmosphere; and that possibly the late severe earthquake on this coast, and similar disturbances in other parts of the earth, and unusual volcanic disturbances everywhere, as well as the extraordinary large spots which have been noticed on the sun, during the past summer, are all more or less responsible for the weather and the extraordinary behavior of the barometer. We throw out these hints, or rather, we repeat what is common talk among many of our thinking people, without drawing any conclusions, leaving it for the adventurers in the school of philosophical progress to elucidate the various phenomena to which we have alluded.

SAN FRANCISCO DIRECTORY FOR 1866.—We have received from the publisher, H. G. Langley, Esq., a copy of the San Francisco Directory for 1866. The present volume fully sustains the reputation of the previous issues, and reflects the highest credit on both the compiler and printers, and is an honor to the city whose business and citizenship it represents. It will compare favorably with any work of the kind in any city in the world. We shall notice it more at length next week.

CINNABAR has recently been discovered in Tulare county, in the foot-hills, to the west of Buena Vista Lake. The mineral doubtless exists to a greater or less extent, throughout the entire coast range, from Del Norte county to Los Angeles.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

Mining in the Pacific States, etc., Past, Present and Prospective.

BY PROFESSOR ROWLANDSON, F. G. S. L.

MORE ABOUT THE COST-BOOK SYSTEM.

It was truly remarked, in a leading article in the last number of this journal, that I did not wish this community to adopt the Cornish Cost Book system in its entirety; I merely recommending it to notice, in order that the better part of its provisions might prove suggestive of amendments in regard to the rules which now apply in California, etc., etc. The Cost Book system originated in a condition of things not greatly dissimilar to what existed at the time that placer mining commenced in California. Read stream tin for placer gold, and the comparison holds good throughout—tin-hounding being the equivalent to putting down a stake and notice. It is a fact worth noting that it is customary at the present day to set up a pole at every mine in Cornwall. I have repeatedly inquired the reason of this, but never could glean any more satisfactory answer than that it was a very old custom, so old that no one knew its origin. As copper mining in that country is of very recent origin, not dating earlier than the commencement of the seventeenth century, and originated probably in consequence of working or searching for tin, it may be safely concluded that the custom of setting up a pole at every separate mine originated before that period, especially as copper mining in that district scarcely acquired much economic importance, until nearly the middle of the eighteenth century, its great development not occurring earlier than the latter part of the last century, when the great impulse was given to mining, especially where deep, by the introduction of Watts' improved engines.

In order to avoid entering on any mythical theories respecting the course pursued by "streamers" in the division of the proceeds of their labor, when the Phœnicians traded to Cornwall for the tin, which probably ultimately formed part of the bronze instruments and castings found by Layard, Rawlinson, and others in the ruins of Babylon, Ninnevah, etc., I shall proceed to more particularly state than I did in my former paper, the more recent but somewhat primitive mode of conducting periodical meetings under this system. As previously related, so far as we are informed by modern tradition, periodical meetings, under the Cost Book system, were usually held monthly, sometimes at the mine, but more frequently at an ale-house; the adventurers generally consisting of well-to-do farmers, shop and storekeepers, laborers, and overseers of the mine, with, occasionally, a speculating gentleman of landed estate, or, as sometimes happened, a benevolent person of the same class who would take a small risk for the sake of affording an additional source of employment to workmen resident in his vicinity. It will be easily apprehended from the description given that all such persons would not only possess considerable local knowledge, but, from their proximity to the mine, would be enabled to personally examine into its management. These were advantages which could not be possessed by a distant proprietory. Notwithstanding the disadvantages under which the latter would labor, it has rarely if ever occurred that any serious inconvenience has arisen in consequence, excepting in cases where down-right swindling has actuated promoting parties, aided by employees appointed by their influence. As mining became more extensive, and the capital was chiefly found by contributors who resided at a distance, quarterly meetings were found sufficient, but not too frequent—in fact, practically formed the just medium.

Submitting what may be termed the legislative power to the body of stockholders, in mining corporation within periods not exceeding three months, and the executive authority in that of trustees or agents during the interval, cannot be so productive of evil as in the case of ordinary trading, banking, commercial, or manufacturing associations; in such the executive department necessarily requires an amount of confidence not at all necessary in mining operations. In the last-named questions of credit, rise or fall in markets (excepting in a very trifling degree), either as respects buying in or selling off, scarcely ever arise, whilst in the first part named it will be at once seen how injurious it would be to publicly canvass such points. Mining is necessarily a slow proceeding. Setting off with the commencement of works at a new mine and accompanying mill, it will rarely occur that the latter will be found ready for working under twelve months, during which period all that would be requisite to be done would be to supply the funds periodically, as required; it being always understood that at the commencement something like an approximately correct estimate is exhibited to the stockholders, not only of the entire cost, but also the probable time the works would require for their execution, and the sums needed at different intervals. The power of the engine to be ordered, the size of buildings, according to a plan furnished, amount of stores to be ordered, or powder, candles, etc., by way of stock, may all be legitimately discussed and legislated on by the general stockholders in meeting assembled, without injury to their common interests; but the making contracts for engines or supplies, together with all matters relating to general management, may safely and properly be left to the trustees as the executive body. It will thus be seen that the executive management will remain with the periodically appointed officials. When a mine is about to be opened, the first duty of a superintendent is to lay before the trustees, and the latter afterwards to lay before the stockholders, a general plan and estimate for opening the mine. When executed, it can rarely happen that any serious mischief can arise in three months, either from improper sinking, or driving, or delaying either for such a period. As a usual thing, all these matters are first designed and reported on by a qualified superintendent, and if approved at the periodical meeting, carried into effect without further interference of the general body. Of course, such a system implies the appointment of a qualified person or superintendent. To expect practical advice on mining and metallurgic management from a superintendent only recently called from the counter, the desk, the stage, or a ship, would be absurd; yet, from such sources have superintendents heretofore been appointed.

Perhaps the only feature connected with the Cost Book system which may probably require serious alteration, will be that part of it which relates to the forfeiture of delinquent stock. The present laws which affect the sale and forfeiture of such, are, however, so defective that some alteration must be made; for as they now exist, they are so paradoxical that it is almost impossible for trustees to make a legal sale of delinquent shares; and in some cases, such as where the operations are carried on at distant places, like Arizona, time will not permit the conditions of the law to be complied with.

As a perhaps not inappropriate pendant to this subject, it may be worthy of notice that if we compare the ancient laws relating to tin-streaming and tin-bounding, in Cornwall, of miners claiming their "meer" from the bar-master of the High-Peak, in Derbyshire, in order to work for lead, or the more recent but still ancient "gales" for mining for coals and iron in the Forest of Dean, Gloucestershire, in England, the ancient mining laws of Saxony, with the laws of placer and quartz mining in California and Australia, a great likeness exists, showing that a common principle of equity has pervaded and still pervades mankind in all ages and places, however remotely dissevered by distance or remoteness of time. It might be well, perhaps, if local mining courts could be established, such as the stannaries and bar-master courts, for settling rights and disputes in the lead district of the High Peak.

MODES OF REDUCTION.

Respecting the various feasible known modes of economically reducing silver ores, a very concise recapitulation appeared, from the pen of Professor Lanszweert, in the number of the Mining and Scientific Press issued on the 2d instant. About five years ago I published a somewhat similar statement, omitting only two of the methods detailed by Professor Lanszweert, viz., the old Hungarian and Gurlts' process. the former is expensive, rather inefficient, and if scrap iron is not employed, the pans of iron soon become useless from corrosion. Until the article of the Professor came under my notice, I was not aware that the use of the chloride of copper (Gurlte' method) ever attained the distinction of a special process. Few silver ores are found without containing some copper, which, if the ore is roasted, and common salt is afterwards supplied, will at once convert the sulphate of copper formed by the roasting into a chloride. It has, however, hitherto been found that when the chloride of copper is present, the silver har obtained contains a large admixture of copper; such is found to be the case in Saxony. It is possible, however, that in the instance just named, that the alloy of the silver with copper is, in a great degree, the consequence of employing iron to reduce the chloride of silver, the use of which will precipitate a proportion of the copper also.

This (Gurlts') method, however, is one worth attention, because when once put into operation, it will not require any great amount of scientific skill to maintain it in continuous working order. Whether it possesses any material efficiency as a solvent over the use of common salt alone (Augustin's process), I am not prepared to either assert or deny. It appears to possess advantages over what Professor L. terms Partode's process—namely, the use of ammonia. Why this last-named method has been termed "Partode's," I cannot imagine or account for, other than by the very common circumstance that the earlier proposers and discoverers of improvements not unfrequently are dead and forgotten, and their wisdom buried in oblivion, until a generation or two have succeeded them; after which, some favorable opportunity occurring for putting their suggestions into practical operation, up starts some pseudo discoverer or pretended inventor who claims and obtains all the honor and profit. In the letters written by me, already alluded to, I named the employment of ammonia, and I think, also, gave due credit to its first proposer, Berthier, who, about thirty years ago, wrote as follows:

"Le mercure ayant maintainant un tres-haut prix, et etant un cause de grand depense dans le traitement des minerals d'argent par la chloruration, on cherce par toutes voies a se passer ce metal. On sait depuis longtemps qu on pourrait le remplacer par l'ammoniaque on par le carbonate d'ammoniaque, qui dissolvent le chlorure de'argent avec un tres grand facitite, maie on n'a pas encore fait usage de ces agents. Je crois que le moment es venn de les employee," etc., which may be translated as follows: Mercury having maintained a very high price, and a cause of great expense in treating silver ores by chlorination, all ways have been sought to avoid the use of this metal, which, after considerable thought, it would appear, may be replaced by ammonia or carbonate of ammonia,* which dissolves the chloride of silver with great facility. The use of ammonia, unless very accutely fitting closed vessels are employed, would be a great nuisance. The restoration of ammonia from the chloride formed would require the attention of a more elaborate chemical apparatus than would be generally comprehended by ordinary workmen. In fact, to keep this process in working order, would necessitate the constant attention of a skilled person. Whether the use of chloride of ammonia in place of chloride of sodium (common salt) would be of advantage sufficient to more than recompense the extra outlay required by employing this more expensive material, I am not prepared to state. It may, however, be remembered that chloride of ammonia (the cheapest source of ammonia) could not be landed in San Francisco at a cost less than one hundred dollars per ton, above that of common salt. Ammonia and its compounds could, however, with careful attention to their management, be used over and over again, with very little loss. Where the silver is combined *solely* with chlorine, or mixed with other haloid substances as iodine or bromine, ammonia and its salts might probably be economically employed, as however natural chlorides are almost invariably associated with a greater or less proportion of sulphides and native silver, these must escape the action of ammonia and its compounds; or if any took place, it would probably be the following reaction: the conversion of the existant native silver into a sulphide, which is insoluble in those substances.

I shall only briefly refer to the so-called Von Pateras' process, partly with the the object of remarking that, like Partode's, the title is not assigned to the proper discoverer. Five years ago I very fully gave the details of this method, which was the discovery of Dr. Percy, Professor of Metallurgy in the School of Mines, London, whose elaborate works on Iron, Copper, etc., are well known. It was introduced in order the more easily to extract silver from the chlorides, chloro-iodides, and chloro-bromides of silver, which, about twenty-five years ago, were discovered and worked at some places in Chili to an immense extent, as at Chañarcillo, for instance; soon after its introduction,† Dr. William Brande, master of the British Mint, recommended the waste lime from the purifiers of gas works, as a cheap source for obtaining the solvent (hyposulphite of soda) recommended by Dr. Percy. This "gas lime" contains a considerable quantity of hyposulphite of lime, which, by double decomposition, can be converted into hyposulphite of soda. Gas lime, however, is not easily attainable at the mines; the hyposulphite of soda can, however, be manufactured by other modes; but to do so, as well as to make the precipitant (five-fold sulphide of sodium), a person possessed of some skill in chemistry would be required, whose presence would also be generally necessary for the purpose of seeing that the process was always in working order. The employment of hydrosulphite of soda as a solvent, and the five-fold sulphide of sodium as a precipitant, is a most effective, and probably the cheapest, method of reducing the natural chlorides of soda; in case, however, these are mixed with sulphides or native silver, or both, to the extent that these exist in any ore, it will be found ineffective.

The defective points in these two last described methods, will be alluded to when the subject of chloridizing (one of the great sources of loss), is reviewed.

*Chloride of ammonia (sal ammonia) will produce the like effect, but not so rapidly. I believe I mentioned this fact in my former letters.

†For a description of this process see Professor Lanszweert's paper in the Mining Press of the 2d December, instant.

NOTE.—It was not until the preceding article had been placed in type that the writer discovered a serious error, into which he had been inadvertently led, by not having read with sufficient attention Professor L.'s description of Gurlts' process, namely: the allusion to the possibility of the silver bar, so obtained, being considerably alloyed with copper. The mistake arose from erroneously conceiving that Gurlts' method was an amalgamating process, in place of simply being a humid one. The difference is highly important. The requisite explanation will be given next week; to which attention is asked, as the theory of the action which takes place, as explained by Boussingault, who was the first discoverer of the principle, throws much light on the subject of amalgamation—the Patio method, in particular.

[Written for the Mining and Scientific Press.]

"Gold-Bearing Sulphurets and their Reduction."

An article published in the Mining and Scientific Press of Nov. 9th, under the above caption, has attracted some attention, both by cause of the subject and by reason of the air of authority assumed in the signature of its author. One who signs himself a "Metallurgical Chemist" should have respectful attention, if the title is not an assumed one; and his opinion, when pronounced, should carry weight, if disinterested and carefully prepared, with the view of enlightening the public on a matter of science. The subject *is* one of grave importance to the future mining prosperity of this State. Many of the most valuable mines are almost wholly abandoned, from the want of an efficient and reliable process for freeing the precious metals, so that they can be extracted profitably. On this account, and by reason of the many failures of recent processes to meet this want, the mining public scrutinize closely not only the projects of inventors, but also the reasons set forth by those who commend them to their confidence.

Had the above named article been simply signed "John Scott," it would have passed without notice, as the effort of one interested in promoting the "invention" which it endorses, and boldly commends to the public. This design is scarcely concealed, though an effort to that effect is attempted. It may be questionable policy for an inventor to advance the success of his contrivance by condemning all other plans used or sought to be introduced for the same purpose; but it is not usually deemed good taste for a professedly scientific man to publish his professional endorsement over his own signature, in a scientific paper, unless he is wholly disinterested, and then only after a thoroughly careful investigation of the merits of the new invention; and especially must it be questionable good taste, if the Professor undertakes to discredit, unfairly, all past and present processes "seen" or merely "heard of," in order to obtain a stand-point for the commendation of a new invention. A fair and judicious discussion of prevailing methods, as also those proposed as substitutes or improvements, is most desirable; but it is not only desirable, but actually essential, that no professional sanction be affixed to a new method, unless upon sound reasons and after a practical working of the proposed improvement.

If the above-named article be examined in this light, it will be found sadly wanting in all the requisites of candid statement, disinterested discussion, and scientific investigation, with regard to those methods so curtly condemned as bad, as well as to that which is so flatly commended to the confidence of the public. The author states, seemingly in order to impress one with his peculiar ability in this

respect, that he has made "numerous experiments," and invented a method for desulphurizing ores which he abandoned as impracticable, and hence, logically, he is the better able, using his own words, "to point out what I consider to be an effectual method for the purpose." Proceeding from this stand-point of ability, "to point out an effectual method" so ingeniously established, he takes up "the common method of desulphurizing the mineral," viz., roasting it in a finely divided state in a reverberating furnace. To this method he gives no quarter, notwithstanding its adoption and use by the most practical, economical, and learned metallurgists of this country and Europe, during the last thirty years. In this case the condemnation rests in the fact (which he says is almost universally admitted), that from twenty to eighty per cent. of the precious metals is carried off mechanically.

That a sensible loss occurs in this way is certainly not denied; but that even this minimum of loss is reached in the most ordinary working of the reverberatory furnace is exceedingly questionable. But even were this so, scarcely any prudent manager is so ignorant of the fact, and so indifferent to the loss, he that what it may, that he does not guard against it by the use of condensing chambers, which are as common to the reverberatory furnace as the fire-bridge and grate-bars. Up to the present time no better method has been found with which to replace the reverberatory form of furnace, the objections to which are of a serious character, and mainly referable to the expense of building and keeping them in repair, the trouble and cost of working the ore properly, and the constant dread of careless and indifferent workmen, upon whom the successful roasting of the ore chiefly depends.

The chloridation method in reverberatory furnaces meets with the same disapproval on the same grounds; yet, the lamented Plattner used this form of chloridating furnace for ores which contained only two hundred grains of gold to the ton. At Mansfield, Freiburg, at Swansea, and many other localities, thousands of tons of ore are yearly roasted in such furnaces.

The Augustin process, that of Ziervogel and that of Von Patera, all invented by eminent metallurgical chemists, are successfully carried out in these condemned furnaces, and certainly their self-complacency will be somewhat disturbed, if at this late day they are to be informed that their loss of metal runs from twenty to eighty per cent.

A cheaper mode of working, and a less expensive structure, calculated to accomplish the same ends, is greatly needed, more especially for the gold sulphurets of California; and with this view, many new contrivances or processes have been offered. To these the author of the article in question next devotes himself, with a vigor which must have acquired much of its energy from the successful overthrow of all the *old* methods. He styles these, "inventions," "in the shape of furnaces," and says of them: "*But I am not aware that any of them have yet answered the expectations of the inventors.*" This is truly amiable in the writer, to throw the acknowledgment of the failures on the inventors themselves. Now, the truth is, the inventors are the very persons who insist that their inventions *do* answer their expectations, and "that's what's the matter." If it were not so, the author of the above remark would not deem it necessary to demolish the *new* as well as the old, in order to get a foot-hold for the *new* invention, which he presently commends as the effectual method.

If, however, he means that the expectations of the inventors have been disappointed, inasmuch as their plans are not successfully introduced, the same difficulty has been experienced by the inventor of that which receives his sanction as "the effectual method;" since, to the knowledge of the writer of this article, Mr. White's revolving cylinder was exhibited to the public at Newark, New Jersey, eighteen months ago, and only a few days since an advertisement for capital to erect a working furnace appeared in this journal.

The "Gold and Silver Separating Company's Furnace," and all akin to it, are now subjected to the crucible test of the metallurgical chemist, and pronounced worthless, with a phew! "*How can steam, superheated or not, be made to permeate a solid mass of ore, be the construction of the furnace what it may?*"

Let us examine very briefly the mode by which this conclusion is scientifically arrived at. This mode is mainly commended to our confidence, from the circumstance of his being requested to examine the performance of this furnace (using his own words), "in my professional capacity, the result of which may be interesting to many of your readers."(?) After stating generally the manner of treatment to which the ore was subjected, he gives several reports of the results, three of which are as follows:

"*First*—Assay of the crude sulphurets: Gold, $301.72; (this should be $391.72, evidently a typographical error;) silver, $3.76—$395.48 per ton."

"*Third.*—Assay of mass after treatment: Gold, $329.50; silver, $3.02—$332.52 per ton."

"*Sixth.*—Assay tailings, $146.12 per ton;" from which, he says, "I conclude that nearly sixteen per cent. of the precious metals was lost during the treatment; that the mineral was desulphurized to the extent of fifty-five per cent.; that fifty-two per cent. ($205.12 per ton) of the precious metals was extracted by amalgamation, and that thirty-two per cent. was left in the tailings."

These conclusions are not as a whole justified by the figures, and, in one respect, are manifestly unfair to the performance of the furnace. The desulphurization was evidently incomplete, as the metal left in the tailings showed, and this may be a radical defect of the furnace; but as to the loss during treatment, (the vital point in the *old*, and now equally so in the new), the facts do not warrant the conclusion. The assay from the crude ore must have been made from a lot or lump of ore necessarily different from that mass from which the third assay was made. The last was a *mass* mixed—the first a lump or lumps, perhaps fairly taken; but not necessarily nor probably representing the same mass as that from which the third assay was made. Hence, the difference of $62.96, or nearly sixteen per cent., would be nothing unusual in itself. But aside from this, add the fixed, positive data obtained by the extraction of $205.12 to that shown by assay, remaining in the tailings, and we have $205.12+146.12=$351.24. Now, subtracting this last sum from the assay of the crude sulphurets—$395.48=351.24=44.24, or *not quite twelve per cent. of loss*, assuming that the ore from which the first assay *was absolutely a fair representative of the mass subjected to the treatment in the furnace, and afterwards by amalgamation.* This assumption cannot be maintained, and hence the loss might be rightly set down as merely nominal, especially when it is considered that a small loss in separating the amalgam might entirely account for the seeming loss. The unfairness of the conclusion as to the loss is still more strongly shown, by observing that the aggregate of the extraction, and that left in the tailings, is a greater sum than was found in the mass by his third assay!!

The fling at furnaces of any construction, whether using steam, superheated or saturated, is not worthy of a scientific investigator. It involves the acknowledgment of ignorance, and is not supported by anything preceding or following in the article by which the unlearned in such matters can answer the question. What is meant by steam "permeating a mass of stone?" If it is meant that steam will not pass through the interstices of the mass, the suggestion is simply absurd. If it is meant, as it probably was intended, that steam cannot enter the *mass* of the single stones or lumps of ore, it betrays downright ignorance to intimate that such an effect is claimed or even desired. Limestone has been decarbonized for many years by the use of steam in conjunction with heat, and it has yet to be intimated by any metallurgical chemist that the steam enters ("permeates") each individual stone, and serves a writ of ejectment on the carbonic acid. Yet, for decomposing carbonate of lime, it is recognized as a most efficient agent. The mechanical as well as the chemical effects of steam are well understood by all men who care to investigate, with the view of arriving at facts, rather than to build up or cast down a particular invention. The point of the fling, however, does not wholly rest in the steam; the author means to disparage the attempt to desulphurize ore in the lump, since his effectual method requires it to be crushed tolerably fine. Possibly he is not aware that this has been done with ores quite as difficult to treat as the sulphurets of California.

Cinnabar contains sulphur and arsenic in considerable abundance; the ore is compact, it is put in the furnaces in the lumps—the sulphur and arsenic are mostly driven off as closely as the mercury. Carbonate of lime, as above mentioned, is dense, compact, and not combustible in the slightest degree. It is put in kilns, in large lumps, and decarbonized. The ores in question are variously composed of sulphur, arsenic and antimony, associated with the metals. These minerals are combustible—that is, they ignite—and hence the vapors must escape if proper conditions are maintained. The oxygen of the atmosphere can readily enter where such vapors escape, producing the oxidation desired.

In theory, therefore, as well as in practice, the desulphurization of ores in the lump offer less difficulty than the decarbonizing of limestone, and the desilvering of cinnabar, provided the requisite conditions can be maintained in the former case as well as in the latter. With the view of employing and maintaining these conditions, many parties are earnestly at work, and their success or failure will not be materially impeded or aided by any ill-digested remarks, however emphasized by scientific authority.

A Student of Metallurgical Chemistry.

[Written for the Mining and Scientific Press.]

The Problem of Gold and Silver Extraction—A General Review—No. XX.

BY PROF. L. LANSZWEERT.

[Conclusion.]

For the application of the processes in my last number, no general rule can be given, as they can be economically and practically employed only under peculiar circumstances. It is, unfortunately, the habit of the more cynical and less practical of men to ridicule all the so-called scientific processes which may be proposed, either in addresses or written papers; also, all mention of any new invention that may have been successfully carried out. Some will, no doubt, say, in reply to these remarks: We do not want to know what other people are doing; we can manage our own business very well. To such it is only necessary to say, may you grow wiser as you grow older, for to upset the conceit which prompts such a remark is, as experience teaches, quite impossible.

Those that scorn sound advice, where often most needed, are the greatest drawbacks to useful science; as some men are so vain of their worldly wisdom as to imagine that no better measures can be adopted than their own; hence they detest any hints from outsiders. Others, again, are constantly complaining, or asking for advice, yet seldom accept the remedies offered, because they cannot perceive their practical utility; while those who are more sanguine often jump at conclusions that are only to be condemned in their turn, simply because the real science of chemical metallurgy is so vaguely understood, and which never can be otherwise while the very elements which constitute each metal are erroneously described. Nevertheless, it would be far more profitable in the end for any gold and silver company to truly ascertain both the real nature of their different ores, and the best means of treating the same; as the mere quantitative analysis of any particular ore are not always sufficient proof that the mines will pay for working in the ordinary way. Therefore, even granted that any certain lode will, on analysis, yield at the rate of, say, 1 oz. per ton, and yet when opened and operated upon on a large scale, but a few grains can be collected. Now, whose fault is that? Is it that of the manager or amalgamator, who not only worked upon different ores from the assayer, but worked on very different principles, often on none, or at best on some known formula, that might be profitable to some kinds of ore, yet not for others. Hence, every sort of ore should not only be analyzed separately, but the very components of their matrices; as it often depends upon whether the general base is silica, calcia, alumina, and what kind of pyrites, or what not, may be associated. In most mines, the very dirt itself differs; as there are earths in California not found in Europe, and so are their metals as well as minerals. However, the main question, in most cases, to arrive at is, the profit and loss; then precious metals are where the ores sought for may be obtained at the least cost. Would it not be far more natural to first assort the earths to be operated upon, even if all were wished to go through different processes.

There is an old maxim that says, "If any good thing is worth doing, is it not worth while to do it well from the first?" Then why not turn every useful item to some advantage, particularly where nature supplies the raw material as cheap as dirt. Of every country possessing mineral territory, as of every person in the possession of mineral property, the duty is clearly defined. The head to the letter imposes on the community and on the individual so endowed the industry to explore and work. There is no evading the responsibility; whatever the surface cultivation, room must be accorded to the miner for his operations, otherwise the value of property in its fulness and reality cannot be reached; it will remain inert and useless to a serious extent, and science and art consequently suffer in their most important interest. It cannot be admitted that Lord Bacon was even wise in his generation, when he made the world not to "toil" for riches underground; experience, at the present time, explodes such philosophy, and with eye of staid speculation and unwavering hand points to the fact, that the balance of labor between agriculture and mechanics could not be prosperously sustained in this, or in any other country, where mine works were to be discouraged or neglected, and impressively directs the energies of every people to such, as constituting an industrial pursuit which, if perseveringly followed, leads ultimately on to fortune. Short-sighted, truly, is the policy which would restrain a section of people, even in a new settlement, from this available means of advancement. The toil of the husbandman and the tending of the feeder of the flocks and herds, are not the only inspirations of intelligence to which people in a new country should hold themselves accessible. Wine and cattle, vegetables and cereals, are, no doubt, profitable, and dot the landscape attractively, but the nomad and the culturer would ill serve the world at its actual civilized age, were there no "dark and dangerous pits and traps of mines and mining," with the long, smoking chimneys and the ponderous machinery to which they minister in their natural imposing positions over the face of the land.

After providing for the wants of animal life, the mineral resources of a settlement merit the earliest testing; and this attended to, time will be taken by the forelock to the promoting of that commerce and manufacture whereby the purposes of civilization are best served and its principles universally utilized. So self-evident a requirement in the sphere of human industry needs no lengthened discussion to prove its worth, and recommend it as materially important.

The "knights of the pick" are not mere Quixotes. They have their uses, and those uses are, at the present day, more than ever great and acknowledged facts. In a word, those errant explorers are the first rank servitors of the commonwealth. They are those who open the little rivulets whose united waters make up the great stream of gold and silver, whose constant flow is an absolute necessity to the successful prosecution of those great schemes of manufacture and commerce, which, during the past decade and a half, has so immensely advanced the material progress of the civilized world. Without their aid the smoke of our foundries and furnaces would no more be seen; the iron horse and his track would be dormant and dead in the bosom of mother earth; the thunders of our war fleets would be hushed in silence, and our merchant marine would dwindle away to pigmy proportions.

In concluding, for the present, this series of articles upon a subject so absolutely inexhaustive, I must rely upon the indulgence of the readers of these papers for any imperfections or omissions which may have been noticed. My aim has been fulfilled if I have succeeded in pointing out certain reactions which may be suggestive of further progress; or if I have been beneficial in any way in attracting attention to the necessity and importance of a more thorough and scientific treatment of the ores of the precious metals, in mining, upon the Pacific Coast.

MINERS' MASS MEETING

AT SUMMIT CITY, EXCELSIOR DISTRICT.

On the 8th instant, a large and enthusiastic meeting of the miners and citizens convened at Summit City, pursuant to a previous adjournment. J. A. Brumsey, Chairman.

Mr. Brumsey briefly stated the objects of the meeting to be to elect delegates to the Miners' State Convention, to be held at Sacramento during the winter of 1865–6. Mr. B. was followed by Mr. Thos. Hannah, who spoke of the great necessity of a general Miners Convention on this coast, and showed the benefits and advantages that would, doubtless, be derived from such an organization, and urged upon the gentlemen present the propriety of immediately taking steps to show that they fully endorsed the call for said Convention. The following resolutions were adopted:

Resolved, That we endorse the call of the Mining and Scientific Press for a Miners' State Convention, to be held at Sacramento, January 17th, 1865.

Resolved, That a delegation of five members be chosen to represent this mining district at said Convention, to be chosen as follows: Three delegates from Summit City, one from Enterprise, and one from old Man Mountain and Baltimore.

Resolved, That no general law can be made to fully meet the wants of the various mining districts in this State. But we recommend the adoption of such general laws as may be applicable to the various mining districts in the State, reserving to the districts themselves the right to make such additional regulations as may be necessary in each individual case.

Resolved, That the delegates elected from this district shall attend the Miners' State Convention, whenever said Conventions shall meet, whether under the late call of the Mining and Scientific Press, or any subsequent call that may be made.

The following-named gentlemen were elected as delegates:

J. A. Brumsey, Thos. Hanaah, J. R. Stewart, delegates from Summit City.

J. H. Fitzgerald, delegate from Enterprise.

F. W. Mitchell, delegate from Old Man Mountain and Baltimore.

The meeting then adjourned, subject to the call of the Chairman.

SALES OF THE WEEK

BY THE S. F. STOCK & EXCHANGE BOARD.

Monday, December 18.

27 shs Chollar-Potosi at 118@118 per ft. s 3
38 shs Chollar-Potosi at 118@118 per foot.
35 shs Chollar-Potosi at 117@115 per ft, s 6.
15 shs Chollar-Potosi at 118@117 per ft, b 10.
5 shs Chollar-Potosi at 118 per foot, s 10.
72 shs Alpha, O. H., at 200@265 per foot.
4 shs Crown Point at 415 per foot, b 5.
4 shs Crown Point at 410 per foot.
19 shs Yellow Jacket at 360@420 per foot.
1 sh Yellow Jacket at 400 per foot, b 30.
1 sb Yellow Jacket at 400 per foot, s 3.
1 sb Yellow Jacket at 410 per foot, s 3.
8 shs Yellow Jacket at 385@400 per ft, s 30.
11 shs Savage at 760@835 per foot.
19 shs Savage at 830@755 per foot, s 30.
3 shs Savage at 810@845 per foot, b 30.
72 shs Ophir at 285@300 per foot.
7 shs Belcher at 140 per foot, s 3.
14 shs Confidence at 25@18 per share.
5 shs Imperial at 100 per share, s 3.
20 shs Imperial at 105@97 per sh, s 30.
75 shs Imperial at 101@105 per share.
30 shs Imperial at 102@100 per share, s 10.
5 shs Imperial at 100 per share, s 8.
3 shs Empire Mill & Mining Co. at 182½.
15 shs Bullion at 12 per share.
10 shs Overman at 30@29 per foot.
3 shs Cal S Nav Co at 59 per cent.

AFTERNOON SESSION.

8 shs Gould & Curry at 897½@900 per foot
7 shs Savage at 850@885 per foot, s 30.
2 shs Savage at 860@875 per foot.
2 shs Savage at 890 per foot, s 3.
2 shs Savage at 895@890 per foot, b 10.
4 shs Crown Point at 410 per foot.
7 shs Yellow Jacket at 400 per foot, s 30.
1 sh Yellow Jacket at 425 per foot, b 30.
1 sb Yellow Jacket at 415 per foot.
1 sh Yellow Jacket at 400 per foot, s 3.
1 shs Yellow Jacket at 400 per foot, s 5.
15 shs Alpha, O. H., at 180@195 per foot.
8 shs Alpha, G. H., at 190@192½ per ft, b 3.
2 shs Belcher at 150 per foot.
62 shs Chollar-Potosi at 115@114 per foot.
5 shs Chollar-Potosi at 115 per foot, b 10.
5 shs Chollar-Potosi at 115 per foot, b 5.
40 shs Cbollar-Potosi at 116 per foot, b 3.
5 shs Chollar Potosi at 116 per foot, s 5.
5 shs Chollar-Potosi at 115 per foot, s 30.
58 shs Imperial at 9~@95 per share.
25 shs Imperial at 92½@95 per share, s 30.
5 shs Imperial at 96 per share, s 5.
20 shs Imperial at 96 per share, b 3.
45 shs Confidence nt 25@33 per share.
5 shs Overman at 30 per share, s 30.
5 shs Bullion at 13 per share
5 shs Ca Steam Nav Co at 59 per cent, s 3.
5 shs Cal Steam Nav Co nt 59 per cent, s 30.
5 shs Cal Steam Nav Co at 60 per cent.

Amount of sales.....$186,489 00

Tuesday, December 19.

1 sh Savage at 910 per foot.
1 sh Savage at 940 per foot, s 3.
1 shs Savage at 950 per foot.
1 sh Savage at 1000 per foot.
1 sh Savage at 10.0 per foot, s 3.
4 shs Savage at 1020 per foot.
5 shs Savage at 1000 per foot, s 30.
1 sh Savage at 1040 per foot, s 3.
2 shs Savage at 1040 per foot, casb.
1 sh Savage at 1030 per foot.
7 shs Savage at 975 per foot, s 30.
2 shs Savage at 980 per foot.
1 shs Savage at 1000 per foot, 30 d.
1 sh Savage at 990 per foot, s 3.
2 shs Savage at 1015 per foot, s 3.
1 sh Savage at 1040 per foot.
5 shs Savage at 1020@1025 per foot, s 3
23 shs Chollar-Potosi at 115 per foot.
5 shs Chollar-Potosi at 116 per foot, b 3.
2 shs Chollar-Potosi at 116½ per ft, cash.
5 shs Chollar-Potosi at 116½ per foot, b 3.
5 shs Chollar-Potosi nt 115 per foot, s 10.
14 shs Chollar-Potosi at 117 per foot.
5 shs Chollar Potosi at 118 per foot, b 3.
1 shs Yellow Jacket at 395 per foot.
4 shs Yellow Jacket at 400 per foot.
7 shs Yellow Jacket at 380 per foot. s 30.
1 sh Yellow Jacket at 400 per foot, b 30.
5 shs Belcher at 145 per foot.
1 sh Alpha, G. H. at 185 per foot.
1 sb Alpha, G H, at 190 per foot.
2 shs Alpha, G. H., at 190 per foot, s 10.
3 shs Alpha at 195 per foot.
6 shs Alpha, G. H., at 195@200 per foot, b 3.
2 shs Alpha, G H, at 200 per foot,
1 sb Alpha, G H, at 200 per foot, b 10.
4 shs Crown Point at 420 per foot.
15 shs Crown Point at 422 per foot, s 3.
4 shs Crown Point at 430 per foot, s 3.
8 shs Gould & Curry at 950 ner foot, b 3.
1 sh Overman at 33 per foot.
15 shs Overman at 35 per foot.
5 shs De Soto at 5½ per share.
10 shs Bullion at 14½ per share.
5 shs Bullion at 18 per share.
27 shs Bullion at 19 per share.
15 shs Imperial at 95 per share.
5 shs Imperial at 94 per share.
5 shs Imperial at 95 per share, b 10.
5 shs Empire M & M Co. nt 185 per sh, cash
55 shs Empire M & M Co. at 185 per sb, s 30.

AFTERNOON SESSION.

20 shs Crown Point at 425@426 per foot.
8 shs Crown Point at 440 per foot.
15 shs Crown Point at 450 per foot.
12 shs Crown Point at 455 per foot.
23 shs Alpha, G H, at 215@210 per foot.
8 shs Alpha, G H, at 205 per foot, s 3.
4 shs Alpha, G. H., at 210 per foot, b 10.
4 shs Alpha, G H, at 207½ per foot.
2 shs Savage at 1000@975 per foot, s 15.
1 sb Savage at 1000 per foot, cash.
2 shs Savage at 975@950 per foot, s 3.
1 sh Savage at 970 per foot, s 10.
2 shs Savage at 975 per foot.
2 shs Snvage at 965 per foot, b 3.
2 shs Savage at 960 per foot.
2 shs Hale & Norcross at 95 per foot, s 3.
6 shs Hale & Norcross at 100 per foot.
1 sh Hale & Norcross at 105 per foot.
5 shs Chollar-Potosi at 118 per foot, s 10.
3 shs Yellow Jacket at 395 per foot, b 30.
1 sb Yellow Jacket at 385 per foot. s 10.
2 shs Yellow Jacket at 390@385 per ft, s 30.
1 sh Yellow Jacket at 390 per foot, b 5.
1 shs Yellow Jacket at 400 per foot, b 3.
4 shs Yellow Jacket at 400@410 per foot.
5 shs Imperial at 95 per share, s 10.
50 shs Imperial at 96@100 per share.
35 shs Imperial at 98@67½ per share, b 30.
10 shs Imperial at 99 per share.
10 shs Sierra Nevada at 3 per share.
8 shs Confidence at 21 per share, s 3.
5 shs Confidence at 19½ per share.
10 shs Confidence at 19 per share.

Amount of sales.....$172,332 00

Wednesday, December 20.

2 shs Crown Point at 440 per foot.
8 shs Crown Point at 430 per share.
12 shs Crown Point at 440 per foot, s 30.
4 shs Crown Point at 455 per foot.
15 shs Crown Point at 460 per foot, s 3.
4 shs Crown Point at 470 per foot.
12 shs Alpha at 210 per share.
8 shs Alpha, G. H., at 205@195 per foot.
44 shs Alpha, G. H. at 190@200 per ft.
8 shs Alpha, G. H., at 200 per foot, cash.
4 shs Alpha, O. H., at 210 per ft, b 30.
15 shs Gould & Curry at 950 per foot.
2 shs Savage at 935@930 per foot.
3 shs Savage at 915 per foot.
5 shs Savage at 900 per foot, s 3.
10 shs Savage at 890@880 per foot.
1 sh Savage at 890 per foot, cash.
3 shs Savage at 895 per foot, b 5.
6 shs Savage at 895@905 per foot.
1 sh Savage at 900 per foot, s 30.
4 shs Yellow Jacket at 395 per share, s 30.
5 shs Yellow Jacket at 410 per foot.
3 shs Yellow Jacket at 390 per foot, s 30.
2 shs Yellow Jacket at 405@395 per ft, s 30.
6 shs Belcher at 145 per foot, s 30.
7 shs Belcher at 150 per foot.
5 shs Chollar-Potosi at 127½ per foot, s 10.
5 shs Chollar-Potosi at 135 per foot, b 10.
2 shs Chollar-Potosi at 135 per foot.
12 shs Ophir at 350 per foot.
5 shs Imperial at 97¼ per share.
5 shs Imperial at 99 per share.

THE NEW BLASTING AGENCY.

NOBEL'S PATENT BLASTING OIL (Nitro-Glycerine.).

[Extracts from a work now in Press in the "Mining and Scientific Press" Job Office—by permission of the Publishers, Messrs. Bandman & Nielsen, Sole Agents for the Pacific Coast, No. 210 Front street, San Francisco.]

NITRO-GLYCERINE, and its enormous power, bave been known to Cbemists for nearly 20 years.

Its practical use, bowever, was thought impossible, because a spark produces no explosion at all, and the blow of a hammer only a local detonation. Moreover, tbe method of preparation known was found to be highly dangerous, and several serious accidents have occurred.

At present, the use of of Blasting Oil is perfectly practicable, and is rapidly supplanting Gunpowder in many Countries.

In Sweden, where it was first introduced, a Company was constituted n November, 1864, for working the invention; the sale of Nitro-Glycerine hy this Company began tbe 16tb of February, 1865; and, from that date up to tbe 26tb of August, 1865, 22,217 lbs. were sold—a quantity equivalent in its blasting effect to at least 222,170 lbs., or very nearly one-half of the wbole of Gunpowder consumed in Sweden during tbat time.

In Norway, anotber Company bas lately been constituted for tbe same purpose.

In Germany and Belgium, where the invention bas been but lately introduced, it is spreading very rapidly.

In France, wbere Gunpowder is a monopoly of the Government, tbe Emperor bas appointed a special commission for investigating tbe merits of the invention.

In England, it bas met witb the highest approbation, as will be seen by the Report of the Royal Cornwall Polytechnic Society.

Nothing, bowever, is so conclusive as a single discharge. Tbe power of the Blasting Oil is so enormous that it at once removes all doubts.

In point of economy, dead weight cannot be taken as standard: 1 lb. Blasting Oil does tbe work of 10 lbs. of Gunpowder. Tbis, bowever, would be but a trifling economy, and the rapid revolution wbich Nitro-Glycerino is effecting in blasting operations is chiefly owing to a great economy in labor, since the same power can be lodged in fewer holes, and of less diameter.

The Properties of the Patent Blasting Oil Are:

1st.—It is a ligbt yellow oily liquid.

2nd.—Its specific weight is 1.6.

3rd.—It is insoluble in water.

4th.—It cannot explode by simple contact with fire. On applying a a lucifer match, for instance, the Oil decomposes without explosion, and on removing the burning medium, the fire extinguisbes.

5th.—The explosion can only take place under particular circumstances, as mentioned below.

6tb.—The combustion of the Oil is complete, and leaves no residue.

7th.—Its explosion is much quicker than that of Gunpowder.

8th.—It can be stored for an indefinite time, without loss in weigbt or quality. At tbe ordinary temperature, neither phosphorus nor tbe metal potassium has any effect upon it.

9th.—It is a perfectly fixed Oil, without a trace of evaporation.

10tb.—It detonates wben struck with a hammer, but the explosion is only local, and reaches no further than the surface of tbe hammer. A few drops, distributed upon an anvil, produce, by various blows a corresponding number of detonations.

11tb.—It can safely bear 212° of heat (Fahrenheit), but it explodes at about 360°.

12tb.—It is poisonous, and should not he brought in contact witb tbe lips—a severe headache of a few bours' duration ensuing.

Theoretic Investigation of the Patent Blasting Oil as an Explosive Agent, in order to account for its superiority over Gunpowder.

The effect of every explosion is owing partly to tbe pressure of tbe gas developed, partly to tbe rapidity witb which the explosion takes place. Tbe latter is a very important point, particularly in fissured rocks.

On comparing Blasting Oil to Gunpowder we have to consider:

The expansion of gas.
The development of beat.
The rapidity of explosion.

1. THE EXPANSION OF GAS.

Of gunpowder, according to tbeory, only 50 per cent. is converted into gas, one volume giving 260 volumes of cold gas, deduction being made of the expansion produced by heat (Regnault). Practically, however the combustion is never so complete, and 200 volumes of cold gas are therefore in all probability above the real average result.

The chemical formula of the Blasting Oil is:

$$C^6 H^5 O^3 (NO^5)^3 \text{ containing } 0.^{18}$$

Absorbed hy the combustion are:

by $C^6 = O^{12}$
by $H^5 = O^5$ $= 0.^{17}$.,

Hence its complete combustion leaves a surplus of: $0.^{1}$

Each 100 parts of exploded Blasting Oil leaves a residue of:

20. water,
58. carbonic acid,
3.5 oxygen,
18.5 nitrogen.

100

Hence, as the specific weigbt of tbe Blasting Oil is 1.6, one volume produces:

554 volumes of steam,
469 do. " carbonic acid,
39 do. " oxygen,
236 do. " nitrogen.

1298 volumes.

2. THE EXPANSION BY HEAT.

It is difficult to determine the degree of beat produced by an exploding substance. According to theory, however, the Blasting Oil, on account of its complete combustion, ought to develop a more intense heat than Gunpowder. Practically this appears from the more intensive ligbt of the flame of gunpowder, wben sucb is mixed with a small quantity of Nitro-Glycerine. It may therefore be pretty safely assumed tbat the heat developed hy the explosion of NitroGlycerine is twice tbat generated by Gunpowder.

Consequently:

If a volume of powder gives 200 volumes of cold gas, expanded by beat 4 times=800,

1,300 volumes cold Nitro-Glycerine gas, expanded by heat 8 times produce 10,400 volumes,

So tbat Nitro-Glycerine compared witb Gunpowder possesses:

About 13 times its power wben volumes are compared, and 8 times its power for equal weigbt, tbe specific gravity of Gunpowder being taken at 1.0.

3. THE RAPIDITY OF EXPLOSION.

Practically, the effect of the Nitro-Glycerine in most cases surpasses the above figures, owing to its great quickness of explosion; this point, however, from want of a standard, cannot he solved by theory.

The Chief Advantages of Patent Blasting Oil.

1st.—*A great Economy in labor for Boring*,—its bulk being very small, as compared to its power.

The great specific gravity, the entire consumption and tbe extraordinary rapidity of the explosion of the Patent Blasting Oil, constitutes it the most powerful of all known blasting agencies.

In the present state of blasting operations, the boring of the holes is far more expensive than the Gunpowder itself—the relative cost, in hard rocks, being no less than 20 and even 30 to 1. Hence, the greater concentration of power of the Oil, and consequent economy in boring, is a matter of the highest importance.

One pound of the Patent Blasting Oil bas the same effect of at least 10 lbs. of blasting powder. The first requires but one borehole, whereas for the powder about 10 boles of the same dimensions will be required.

Thus, in open blastings,

If the dislocating of a certain quantity of rock requires:

100 feet 1½ in. boring in middling hard rock, if 3 men at $3½ per day make 5 feet, would cost	$210 00
25 lbs. powder	6 00—$216 00

It is done witb Nitro-Glycerine at the expense of.

10 feet 1½ in. boring as above	$21 00
2½ lbs. Blasting Oil	6.00— $27 00
Leaving a profit in favor of the Blasting Oil of	$189 00

Where tbe rocks are very hard, and the boring more expensive, a still greater economy results from tbe use of the Oil; but on tbe otber hand, as large quantities of rocks are dislocated hy each shot witb Nitro-Glycerine, heavy blocks are frequently obtained, and allowance sbould be made for tbeir furtber blasting.

It is perfectly practicable in Mines to bave boles of ⅝-in. diameter bored for Nitro-Glycerine, exactly wbere bores of 1½-in. diameter for Gunpowder would be placed, and to charge witb no more tban 1 cub. in. of Nitro-Glycerine.

Moreover, tbe time occupied for bard tamping is saved, and it will be found that Nitro-Glycerine always blasts to the bottom of the hole, which Gunpowder does not.

Cartridges must he used in badly-ventilated Mines, to preveut any escape of unexploded Nitro-Glycerine, it being injurious to bealth.

2nd.—The rapid progress of blasting operations, which is of tbe greatest importance, especially for Mines and Railway tunnels.

All Blastings may be performed with the Oil at least as quick again as with Gunpowder.

3rd.—*The combustion of the Oil is complete and leaves no residue*,—hence the Ore, not being blackened hy smoke, is easily traced, and in Salt Mines tbere is no refuse.

4th.—The action of the explosion is so quick that the most fissured rocks and even clay-soil are easily blasted by this medium and the effect is not lessened by any fissures, which is proved by the loose sand or water being a sufficient tamping. As powder burns much slower it is evident—and has been practically proved—that one borehole with Blasting Oil, in fissured rocks, does more execution than 20 to 30 bore-holes of equal dimensions charged with powder.

It will be found very useful for blasting loose Limestone, Conglomerates, Chalk, Clay, and similar materials, where Gunpowder is scarcely of any use.

5th.—There is a great saving in tools, and also in fuse, fewer bores being needed.

6th.—The peculiar property of the Patent Blasting Oil—not to explode by mere contact with fire—renders its carriage, storing and handling very safe.

7th.—No tamping but loose sand or water being required, the loading is attended with no risk, besides a saving of time and expense.

8th.—Blasting Oil being insoluble, water-carrying bore-holes are simply charged by pouring in the Oil, which sinks to the bottom.

9th.—The Oil is very useful for blasting the iron deposits in copper furnaces, as well as any heavy blocks of steel, iron or metal, old guns &c., which cannot be blasted by Gunpowder, but easily yields to small charges of Blasting Oil.

Of the Simple Proceedings of Blasting Under Water:

The advantage of using this Patent Oil in submarine blastings is still more glaring compared with the customary method of using powder which is liable to get wet, requiring watertight cartridges and careful tamping, while the Oil can be introduced into the bore-hole without any trouble and risk, and the water itself is served as a tamping. The annexed illustration shows how simple this process is.

The Inconveniences of the Patent Blasting Oil are:

1st.—It being somewhat poisonous, and its contact with the lips produces headache. Hence, it is very important, when used in Mines, that no unexploded part of the Blasting Oil escapes, and be diffused in the atmosphere. *To prevent this, cartridges must be used in all badly-ventilated Mines.*

The additional expense for Catridges is, however, much more than compensated by the saving in boring, and the rapid progress of the work.

2nd.—Wherever the bores are leaky, they must be tightened with wet clay. (See instructions for use).

3rd.—For all horizontal or upward bores, cartridges, of course, must be used.

INSTRUCTIONS FOR USING NOBEL'S PATENT BLASTING OIL.

Articles Required.

1ST. A Graduated Measure, containing 1 lb. of Blasting Oil, (each degree ½ an ounce.)

2ND. A Tube with a funnel mouth, through which the oil is poured in to avoid spilling.

3RD. Capsules.

4TH. Fuses.

5TH. Patent Igniters.

6TH. Cartridges for horizontal and upward bores.

Instructions For Charging Downward Bores.

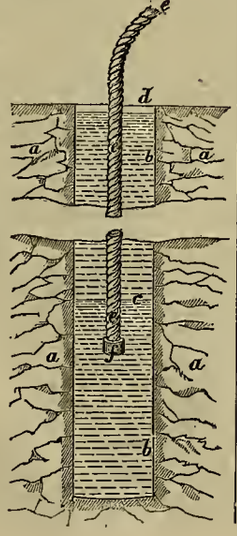
I. WITH WATER TAMPING.

Pour the oil into the bore, (a good workman will soon know the exact quantity required.)

Fill up the bore with water.

Put a Capsule on the end of a fuse, letting it down till the Capsule is immersed in the oil.

The fuse must not pass far into the oil, as it is better that the force of the explosion should be directed downward.



REFERENCES TO ENGRAVING.

a The rock.
b The bore.
c Level of Oil.
d Level of water.
e Fuse.
f Capsule.

II. WITH SAND TAMPING.

A Sand Tamping is sometimes preferred on account of its greater resistance than water.

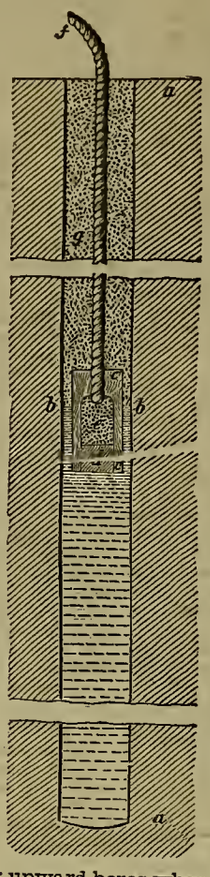
Pour the oil into the bore, connect a fuse with a patent igniter, which is to be charged with gunpowder; let them down *till the igniter is sure to swim in the oil.*

Hold the fuse in its place, and fill up the bore with dry sand.

An igniter, for instance, of ¾ inch diameter to a bore of 1 inch diameter will do.

The fuse to fit tightly in the igniter, and the hole left for it to be enlarged as may be required to suit the size of the fuse.

Care must be taken to have all doubtful bores tested with water, and if they prove to be leaky, to have them tightened with wet clay.



REFERENCES TO ENGRAVING.

a The rock.
b Level of oil.
c Patent wooden igniter.
d A cork.
e Charge of gunpowder in the igniter.
f Fuse.
g Tamping of loose sand.

Directions for Charging Horizontal or upward bores when Cartridges are required.—Fig. 3.

a Shows the rock.
b A bore.
c A cartridge.
d A conical wooden igniter, which is slightly pressed into the cartridge to keep tight.
e Charge of gunpowder in the igniter. *d.*
f A cork.
g A fuse.
h A tamping of loose sand or clay. The cartridge should be filled with oil till the igniter is sure to dip in it. In mines it is always safer to make use of cartridges, as if any oil should escape unexploded, it is diffused by the explosion in the atmosphere, which renders it delcterious.

Bores of 20 to 30-in. of depth and ⅝ to ¾-in. diameter, with cartridges 4 to 8-in. in length and ⅝ to ¾ in. diameter appear to be the best adapted for mines.

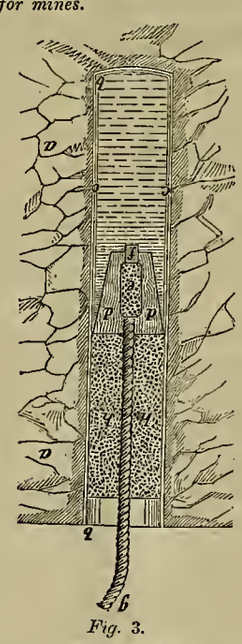


Fig. 3.

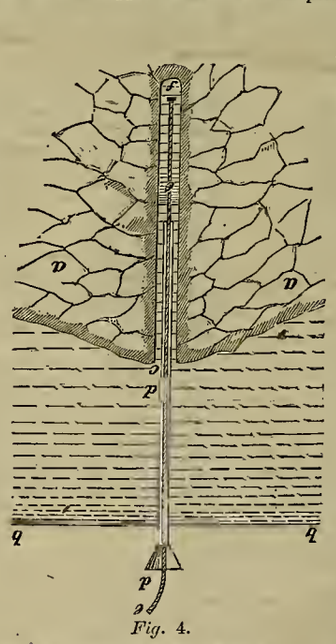


Fig. 4.

Directions for blasting under water.—Fig. 4.

a Is the rock.
b The water level.
c A bore.
d A tube with a funnel mouth. The tube, *d*, is passed down through the water into the bore, and the oil is poured down it; this done the fuse, *e*, with a capsule, *f*, is likewise let down through the tube, *d*, which latter is then removed, and the charge is ready.

36 shs Imperial at 100 per share.
15 shs Imperial at 100 per share, cash.
10 shs Imperial at 101 per share.
10 shs Imperial at 100 per share, s 6.
5 shs Imperial at 101 per share, b 10.
5 shs Imperial at 100 per share, s 6.
5 shs Imperial at 99 per share, s 5.
20 shs Imperial at 98 per share, s 10.
30 shs Sierra Nevada at 3 per share.
5 shs Confidence at 18 per share, s 3.
1 sh Confidence at 20 per share.
5 shs Confidence at 23 per share.
15 shs Confidence at 22¾ per shara
5 shs Bullion at 21 per share.
5 shs Bullion at 22 per share.
15 shs Bullion at 23 per share.
10 shs Bullion at 23½ per share.
2 shs Empire M & M Co. at 186 per sh.
2 shs Cal. Steam Nav. Co. at 62 p ct., s 30.
5 shs Cal Steam Nav Co at 62½ per cent.

AFTERNOON SESSION.

10 shs Chollar-Potosi at 125 per foot.
5 shs Chollar-Potosi at 125 per foot, s 30.
1 sh Chollar-Potosi at 127½ per foot.
3 shs Chollar-Potosi at 130 per foot.
7 shs Chollar-Potosi at 129 per foot.
14 shs Chollar-Potosi at 134 per foot.
5 shs Chollar-Potosi at 136 per foot.
2 shs Chollar-Potosi at 135 per foot, s 3.
2 shs Chollar-Potosi at 130 per foot, b 3.
10 shs Chollar-Potosi at 132½ per foot.
17 shs Chollar-Potosi at 133 per foot, b 3.
29 sh Chollar-Potosi at 135 per foot.
4 shs Alpha, O. H. at 190 per foot.
8 shs Alpha, G. H., at 290 per foot.
4 shs Alpha, G H at 125 per foot.
2 shs Savage at 925@930 per cent.
7 shs Savage at 910@940 per foot, s 30.
1 sh Savage at 940 per foot, s 3.
1 sh Savage at 930 per foot, s 15.
1 sh Savage at 960 per foot.
2 shs Hale & Norcross at 125 per foot, s 3.
20 shs Hale & Norcross at 125 per foot.
4 shs Imperial at 125 per share, b 3.
1 sh Yellow Jacket at 405 per share.
2 shs Yellow Jacket at 410 per foot.
1 sh Yellow Jacket at 415 per foot.
1 sh Yellow Jacket at 395 per foot, s 30
13 shs Yellow Jacket at 400 per shara, s 30.
1 sh Yellow Jacket at 420 per foot.
1 sh Yellow Jacket at 425 per foot.
24 shs Ophir at 350 per foot.
12 shs Ophir at 343½ per foot.
12 shs Ophir at 335 per foot.
12 shs Ophir ac 432½ per foot.
1 sh Belcher at 160 per foot.
10 shs Imperial at 100 per share.
2 shs Imperial at 100 per share, s 3.
5 shs Imperial at 102 per share, b 3.
20 shs Imperial at 101 per share.
10 shs Imperial at 99 per share, s 10.
15 shs Bullion at 22 per share.
Amount of sales.....$134,693 00

Thursday, December 21.

72 shs Ophir at 340 per foot, b 30.
96 shs Ophir at 290@325 per foot.
36 shs Ophir at 275@250 per foot, s 10.
12 shs Savage at 940 per foot, s 3.
5 shs Savage at 940@930 per foot.
2 shs Savage at 940 per foot, 15 d.
1 shs Savage at 930 per foot, b 5.
4 shs Savag at 900 per foot, b 10.
54 shs Chollar-Potosi at 135@145 per foot.
14 shs Chollar-Potosi at 142½ per foot, s 10.
6 shs Chollar-Potosi at 141 per foot, s 3.
5 shs Chollar-Potosi at 142 per foot, b 5.
6 shs Hale & Norcross at 125@127½ per ft.
2 shs Yellow Jacket at 450 per foot, b 30.
1 sh Yellow Jacket at 460 per foot, b 5.
2 shs Yellow Jacket at 450@455 per foot.
1 sh Yellow Jacket at 455 per foot, s 30.
24 shs Alpha, G. H., at 210@220 per foot.
10 shs Crown Point at 500@510 per foot.
2 shs Belcher at 175@170 per foot.
55 shs Imperial at 102½@108 per share.
10 shs Imperial at 107@@110 per shara, b 5.
10 shs Imperial at 107½ per share, s 3.
5 shs Imperial at 110 per shara, b 10.
5 shs Imperial at 106 per share, s 30.
90 shs Sierra Nevada at 4@4¼ per share.
54 shs Overman at 45@50 per foot.
13 shs Bullion at 24@22 per share.
31 shs Confidence at 22½@26 per shara.
10 shs Confidence at 27 per share, s 3.
29 shs Cal Steam Nav Co at 62@62½ par ct.

AFTERNOON SESSION.

2 shs Yellow Jacket at 450 per foot.
2 shs Yellow Jacket at 450 per foot, s 30.
1 sh Yellow Jacket at 450 per foot, b 30.
2 shs Yellow Jacket at 425 per foot, s 30.
1 sh Yellow Jacket at 425 per foot.
1 sh Yellow Jacket at 460 per foot, s 3.
2 shs Hale & Norcross at 130 per foot.
16 shs Hale & Norcross at 140 per foot.
4 shs Hale & Norcross at 150 per foot.
2 shs Hale & Norcross at 155 per foot.
6 shs Hale & Norcross at 160 per foot.
8 shs Halo & Norcross at 165 per foot.
1 sh Belcher at 150 per foot.
31 shs Savage at 850@840 per foot.
7 shs Savage at 860 per foot, b 30.
2 shs Savage at 835@830 per foot, s 3.
1 sh Savage at 875 per foot, s 3.
1 sh Savoge at 830 per foot.
1 sh Savage at 800 per foot, s 30.
4 shs Savage at 840 per foot. 30 d.
1 sh Alpha, G. H. at 225 par foot.
12 shs Ophir at 300 per foot.
12 shs Ophir at 320 per foot.
24 shs Ophir at 330 per foot.
12 shs Ophir at 335 per foot.
3 shs Chollar-Potosi at 140 per foot.
6 shs Chollar-Potosi at 141½ per foot.
2 shs Chollar-Potosi at 141 per foot.
65 shs Imperial at 100 per share s 30.
15 shs Imperial at 105 per share, s 3.
15 shs Imperial at 105 per shara.
5 shs Imperial at 103 per share, a 3.
10 shs Imperial at 104 par share.
5 shs Imperial at 103½ per share.
16 shs Imperial at 103 per share.
6 shs Bullion at 23 per shara.
5 shs Bullion at 23½ per share.
115 shs Sierra Nevada at 4¾ par share.
3 shs Overman at 50 per foot.
4 shs Overman at 49 per share.
10 shs Overman at 47 per foot.
5 shs Overman at 45 per foot, s 10.
10 shs Overman at 45 per foot, s 30.
6 shs Overman at 45 per share, s 3.
Amount of sales.....$128,389 00

Friday, December 22.

4 shs Savage at 827 per foot.
8 shs Savage at 800@820 per foot.
5 shs Savage at 850@880 per foot.
5 shs Savage at 900@910 per foot.
12 shs Ophir at 320 per foot.
53 shs Imperial at 97@99 per share.
65 shs Imperial at 95@99 per share, s 30.
8 shs Alpha, G. H., at 300 per foot.
16 shs Alpha, G. H., at 275 per foot, s 10.
29 shs Chollar-Potosi at 132½@130 per foot.
56 shs Chollar-Potosi at 135@142 per foot.
5 shs Yellow Jacket at 450 oer foot.
5 shs Yellow Jacket at 440@450 per foot.
13 shs Yellow Jacket at 415@420 per ft, s 30.
24 shs Hale & Norcross at 175@250 per foot.
2 shs Hale & Norcross at 225 per foot, s 30.
8 shs Hale & Norcross at 250@240 per sh.
44 shs Hale & Norcross at 230@240 per foot.
1 sh Overman at 50 per foot.
40 shs Sierra Nevada at 4½ per share.
45 shs Bullion at 25@23 per share.
20 shs Confidence at 26@24 per share,
30 shs Belcher at 150@148½ per foot.
$27,000 Legal Tender Notes at 67 ¾

AFTERNOON SESSION.

5 shs Cal S Nav Co at 60 per cent, s 30.
6 shs Cal Steam Nav Co at 61 per cent.
54 shs Imperial at 98@100 per share.
60 shs Imperial at 100@104 per share.
40 shs Imperial at 95@97½ per share, s 30.
20 shs Imperial at 100@99 per share, s 10.
32 shs Alpha, G H, at 275@310 per foot,
20 shs Alpha at 300 per foot, s 30.
20 shs Alpha, G. H., at 320@315 per foot.
20 shs Hale & Norcross at 3?0@270 per foot.
20 shs Hale & Norcross at 260@279 per foot.
48 shs Ophir at 350@360 per shara
65 shs Chollar-Potosi at 147@150 per foot.
7 shs Savage at 875@880 per foot.
4 shs Savage at 900 per foot, b 30.
4 shs Crown Point at 485 per foot.
5 shs Yellow Jacket at 450 per foot.
3 shs Yellow Jacket at 420@425 per foot,
145 shs Sierra Nevada at at 5@7 per share.
50 shs Bullion at 25 per share.
Amount of sales.....$146,545 00

Mining Summary.

CALIFORNIA.

Shasta County.—The buttery and last lot of machinery for Kelly's quartz mill, says the *Courier*, at Lower Springs, has arrived and will he running in a very short time. There is no doubt about its being a success. The Moreheads are not running their mill now, but are getting out rock that is wonderful to behold. Kelly has let a contract to sink a shaft on his claim there. It is on the old Jollic lode.

The Honeycomb mill, eight stamps, has made a clean up after a run of fourteen days. Result, $845 23. The mill is new and does not yet save all the gold. Considerable amalgam is wasted because of a "screw being loose" somewhere. Much better results are looked for in the next run. The above would be good enough in the sage brush countries, but we expect better things here in the settlements.

Horse Shoe Bend Co.—There are ten shares in this company, and so far the work has cost them $400 per share. It is estimated that $1,000 expended in the spring will put everything in A No. 1 working order—thus completing the work at a cost of $500 per share. Holders ask $2,000 per share, and we believe them cheap at that. The Horse Shoe Bend will furnish profitable labor for a thousand men next spring, summer and autumn.

The Spring Creek Mill company are hard at work again in their deep shaft, and are much encouraged. They are now getting out some splendid rock.

Plumas.—The Quincy *Union* learns that several new ledges have been discovered in the Indian Valley section during the past two weeks. The owners of the King ledge, at Mohawk, have their arastra nearly completed, and will commence crushing quartz next week. A company are at work prospecting the Union ledge in this valley. They believe it will pay to work. One or two new ledges have been struck in Long Valley. The new mill of the Crescent company is not running at present. The company is making repairs, &c. The Eureka mills have stopped crushing for the season. John Parrott, of San Francisco, has commenced suit to foreclose a mortgage on the Eureka mills, etc. Amount due, about $26,000.

A correspondent of the *Union*, "G. S. B.," is writing a series of articles, descriptive of the progress of the mining interest in Plumas county, from which it appears that Plumas contains within her borders the sources of wealth, which need but a fair amount of capital and industry to place her among the front rank counties in the State. The second article of the series gives a detailed account of mining operations in and about Onion Valley.

Tehama.—Mr. Wm. A. Sanders, says the Red Bluff *Independent*, has purchased the one-half interest of Mr. A. B. Goss, in the mining ditch, five miles above town. The other half is still owned by Major J. C. Bradley, who will have charge of the ditch, as heretofore. This is one of the best pieces of property in Tehama county, having paid in net dividends, during the past year, over 100 per cent on its entire cost.

The office of the Original Williams & Kellinger Company has been moved from Copper City to Red Bluff, and M. H. Myrick, Esq., has been elected Secretary, vice J. S. Hale, Esq., resigned. This is a great convenience to stockholders, as some of them were put to considerable trouble in forwarding assessments to Copper City. Mr. Hale retains the position of Superintendent, and is pushing the work ahead with energy. An assessment of $2.50 per share has been levied, payable on the 6th day of January. This assessment, when paid in, will nearly clear off the company's debt.

Shasta.—The Union Mining Company at Bower Springs, Shasta County, says the Red Bluff *Independent*, have struck it rich. D. B. Lyon, Esq., showed us the other day the result of one pound of rock, crushed in a hand mortar and then washed out in a pan, producing over one dollar! It is beautiful fine gold, and the rock is easily crushed. The most of the stock of this company, 2,200 feet, is owned in Red Bluff. L. A. Kelly, the Superintendent of the mine, is pushing things ahead vigorously, and we would not be surprised some of these days to see some of our friends retiring from business to live on the proceeds of this mine.

The McCloud River Marble Company has been incorporated, with a capital stock of $60,000. The quarry of the company is located on the McCloud River, about five miles from Copper City. This marble has been worked for several years by Messrs. Lee and Delong, of this place—is pure white, and can be polished equal to any marble now in use. Specimens have been sent to San Francisco, and pronounced by the marble workers there as equal to any they have in the city. A number of workmen left this morning for the works of the Company.

Yuba.—During three or four days past, says the Marysville *Appeal*, we have noticed teamsters shipping machinery from the storehouse of Knight & Gignoux for the Yuba Gold and Silver Mining Company, at Brown's Valley. It consists of an engine, pump, &c., which look as if they would do good service.

Sierra.—We condense as follows from the Downieville *Messenger*, of the 16th instant: Reports of damages by the late storm still continue to reach us. A correspondent at Scales' Diggings writes that the large reservoir of Stewart & Co. was broken, sweeping Rock Creek clean, and doing damage amounting to some ten thousand dollars to mining property.

Quartz prospects are still lively at the mines about Alleghany. The Union is still getting fine prospects. One small piece of rock about the size of a goose egg, worth about $75, was lately taken out where they are working. The annual meeting of the Fac Similie Company was held last week, and the old board of officers elected, as follows: J. H. Clute, Trustee; M. V. Clute, Treasurer; L. McKelvey, Secretary. The ledge prospects splendidly as the work goes on.

A correspondent from Table Rock says the claims there are paying better than ever—scientific mining more than offsetting the increased distance that has to be gone in order to obtain gold-bearing gravel. Interests have changed hands in the Hawkeye company, at the rate of $64,000 for the whole mine or set of claims. The Pittsburg claims probably rate as high; while the Union could not be bought for a hundred thousand dollars. There are several sets of other claims ranging from ten to thirty thousand dollars each.

A correspondent from Sawpit Flat writes that water is abundant; but the weather is too cold for much work. The Eagle company have struck some very good gravel—prospecting from $5 to $8 to the pan pretty regularly.

Alpine.—C. D. Gebbes, the well-known mining engineer, writes to the Stockton *Independent* that an innumerable number of silver-bearing lodes have been discovered in this county during the last three years. Their general width varies from ten to one hundred and fifty feet. The gangue or vein rock is generally quartz or carbonate of lime, sometimes sulphate of baryta or tremolite. That although rich ore is not found near the surface, as at Reese River, still their great size and favorable location must render them eventually very valuable. The surrounding nonmetalliferous rocks are generally trap, porphyry or slate, with granite at the base of the mountain.

The Monitor *Gazette* says of the Silver Mountain district, that work is going on steadily on the Mountain, Pennsylvania, Buckeye Nos. 1 and 2, Lady Franklin, George Washington, and Mary Francis—good headway being made on each. The IXL company have again put on a large force, and are taking out ore of fine quality for crushing. The brick obtained from the workings of five tons of Buckeye No. 1 ore, last week, has been sent below for assay, and the true returns are not yet received at the office, but the yield will undoubtedly be over $60 per ton.

Bassett & Whiteside's mill it is expected will commence crushing again next week.

Nevada.—The *Transcript* says that the proprietors of the Whigham lead (which lead we recently noticed as standing idle) have determined to resume operations at the mine, and that it will before long be ranked among the best mines in this section. For several weeks an agent of the company has been in town, making arrangements for commencing work. The mill will be put in thorough order, and several weeks will be required to clean out and free the mine of water. The rock when worked last paid well, and when the mill gets to crushing again, we believe with proper management the gold yield will be largely increased. The proprietors reside in San Francisco.

The same paper states that the Merrimac mine has been opened to a considerable depth, and although no effort was made to take out rock, the expenses of working the mine have been paid from the start, and the company has a surplus on hand. The mine is now thoroughly prospected, and opened so that hereafter the entire energy of the force at work can be directed to getting out rock. The lead is large, and will no doubt turn out large amounts of money.

According to the *Gazette*, 104 tons of rock from the Talbert ledge, lately crushed at the Oriental mill, yielded 800 ounces of amalgam, which, it is estimated, will retort five dollars an ounce. This will make the yield of the rock within a fraction of $38 per ton.

The quartz mill erected by Smith Brothers, at Rough and Ready a year or more ago, and which was run for a short time and then suspended operations, has lately been started up again with flattering prospects. The rock at first crushed yielded on the average some nine or ten dollars a ton, which was barely sufficient to pay the cost of working it. But the owners of the ledge lately opened it in another place, where the rock promises better pay, and is improving in richness and size of ledge as they go down. The mill is said to be a fine one.

Placer.—The *Stars and Stripes* of a late date, says that the people of Placer have not given so much attention to quartz mining as it seems to us their interests demand. There are many ledges in this vicinity which have been sufficiently tested to assure their paying well by a fair working process. Yet there is not a quartz mill in the neighborhood which is fit to be trusted with the crushing of a ton of rock. A good quartz mill is much needed in this district, and the parties who will erect it will find it a handsomely paying investment.

The miners of that county anticipate a serious interruption in their business this season. The railroad, it appears, runs in such a manner as to cut the ditches between Dutch Flat and Gold Run, which will necessitate a suspension of operations at the latter place during the season when water is most plenty. This will be a great hardship to the miners there, as they will lose the most of the year's work; but it is unavoidable.

Amador.—A company of miners at Cave City, says the *Register*, have laid pipes a distance of 6,500 feet, to conduct water for mining purposes to what is called Gold Hill, near Cave City. This hill is supposed to contain rich deposits of gold, but has never been worked for want of water.

The Loyal Company, whose lode is near Drytown, have erected a splendid new steam mill. They have twenty stamps in successful operation, and will soon have twenty more running.

The Richmond Company have completed their 10-stamp mill near Yeomet. They have one of Beath's Hydraulic Wheels, which, with a fall of 150 feet, runs ten stamps with forty inches of water. The company think this the cheapest power now in use, wherever there is sufficient fall.

VIRGINIA CITY AND VICINITY.

The Virginia *Enterprise* says: "At the lower level of the Savage mine, 470 feet below the surface, a fine large body of excellent paying ore is being worked at present. It is some 80 feet wide, and of unknown extent. The ore is easily mined, being soft and fine almost as sand. The Savage is looking very well indeed.

English Company on the Truckee.—The quartz mill of the English Company, on the Truckee river, will shortly begin crushing ore from Peavine District. The mill will start with twenty stamps, and will crush rock from the Bevelhymer and Great Eastern leads. The ores from these leads show well in free gold, and contain not only a large per cent. of copper, but a considerable amount of silver. The reduction is undertaken as an experiment. Should the present apparatus prove inefficient, the company will probably make arrangements next season for working by the Swansea plan, this saving all the base as well as precious metals contained in the ore operated upon. They can get all the wood they may require at $4 per cord. The company intend erecting a flouring mill on their lands, the machinery for which has already been ordered in England. They will sow, next spring, some 600 acres of wheat. Hereafter they will sow their wheat in the fall, in order, that it may have the advantage of the moisture afforded by the rains and snows of winter.

Kearsarge.—A tunnel has been run into the famous Kearsarge ledge, in Kearsarge District, tapping it at the depth of 180 feet beneath the croppings. The company are now taking out large quantities of ore of a very rich description, ready for crushing, when the mill which A. B. Paul & Co., are erecting, a mile or two from the mine, is completed, which is expected to be some time in January. The Kearsarge ledge is said to be a well defined ledge of about four feet in width, and containing a body of ore fully as rich or even richer than the Comstock. A large proportion of the mine is owned in Gold Hill and Virginia. There are many other good ledges in the district, but few of them have been developed much as yet. There will be a great deal done in the way of development the next season.

The Como Mill.—The *Enterprise* learns that the 10-stamp mill at Como, which has so long laid idle for want of rock to run it, has been purchased by the Kearsarge Company for the working of their rich mine in Kearsarge District, and is now in process of removal thither. It is an excellent mill and will do good work in its new location.

Lake District.—This District, located west of Walker Lake and bordering upon it, was located last February. But little has ever been said in regard to it, parties interested in it being desirous of keeping the public in ignorance with regard to it. The ledges are generally composed of argentiferous galena ore which assays very richly, but some of them show rich gold-bearing rock, assaying as high as $1,500 to the ton. Nearly a hundred locations have been made, and W. H. Burgess, the Recorder of the District, is now in this city, making arrangements to have a mill sent out there. The entire section of country is represented to be of surpassing richness in mines of gold and silver, but it is as yet but little prospected. There will be considerable stir made in that direction during the coming season.

A gentleman recently from Silver Peak District gives a very favorable account to the editor of the Territorial *Enterprise* of the prospects of the miners in that portion of the State. Since the last shipment of bullion—over one thousand pounds—from Martin's mill, about twenty-two hundred pounds of bullion of the same quality (worth from $1 80 to $3 per ounce) has accumulated. It was taken from ore out of the Vanderbilt lead. A vein four miles further north, and supposed to be the continuation of the Vanderbilt, has been found and located, the ore from which is said to exceed in richness anything yet found in that part of the country. The rock contains both gold and silver, free gold being found in large flakes in the seams of the vein. From all accounts this appears to be the richest of all the new districts in that direction.

HUMBOLDT.

The Arahia mines keep up, so far, to their most flattering promise of last Summer. We clip from the *Register* as follows:

The Montezuma, at a depth of 150 feet, is 6 feet wide, all mineral, and the character of the mineral improving. It has been rather coarse, for some time back, but is fair again, and will soon, at the present rate of improvement, equal its old standard—$150 to $200 the ton.

The Jersey is about the same width of the Montezuma, and several teams are kept constantly at work, hauling ore to the mill. Fox drives work like an old one. Stevenson, of the Etna mill, took in, Tuesday, 5,258 ounces bullion, result of Jersey ore. The ore averaged $45 the ton, without having the proper chemicals in the mill with which to work it. Thirty tons Jersey ore at Wahher's mill, to come in turn after a lot from the Dunderberg.

The Daisy, third in any, is after the other two at a threatening pace. The boys have a tunnel in 50 feet, keeping on the ledge. The ledge is now about three feet wide, and widening. Will run two shifts of hands next week.

Contracts let to sink shafts on the San Francisco and the Fillmore—both promising mines.

The Savannah is one of the best ledges, by upper indication, yet found in Arahia. We were expecting, since Lovelock's return, that work on it would be resumed; but he and Parker have a contract on an extension of the Montezuma, and that lets the Savannah still rest.

The Santiam (Oregon) Mines.—A gentleman of extensive mining experience, who lately visited these mines, furnishes the *Oregonian* with some interesting particulars of his visit. He says:

"There is in my judgment every indication of the ledges proving to be rich, permanent silver bearing ones. And this is the great hope of the district, that the very rich "croppings" and top rock in which gold so richly prevails, will run into veins of solid quartz having a metallic predominance of silver, and if there is no mistaking indications, this is surely the case. An increase of depth shows, upon most of the ledges worked, an increase of this class of rock. From seams, intermixed to a greater extent with gold hearing quartz, its evident tendency is to run together into solid, substantial veins of its kind. The ledges are well defined, having the smooth wall casing so indicative of permanancy and excellence, and which is rarely or never lacking in the reliable quartz vein. Aside from its future promise the present prospects of Santiam are good. Enough of rich, gold bearing rock is in sight on the ledges being worked to yield a rich return for past outlay, and to afford lucrative work for years for a mill of large capacity. The one mill there will be running in a few days, and of the returns from the rock ready for crushing there can be no doubt. The Union company have constructed a shute over one mile in length, from their tunnel to the mill. The saw mill is finished and in working order, cutting as fine quality of white pine lumber as can be obtained in the United States. Work was being prospected on the Santiam and Oregon companies' ground, and all seem full of hope for the future of the district."

The foundation of the great Mormon Temple at Salt Lake is about completed. When finished, the foundation will be one of the largest and most substantial in the world. Some of the stones weigh two tons. It is doubtful however, whether the temple will ever be completed.

Mechanical.

DANFORD'S STEAM GENERATOR.

Some months since we noticed the fact that Mr. E. Danford, of Geneva, Illinois, had invented a new steam generator, which was attracting much attention among the mechanics and manufacturers at Chicago, and which promised to work an utter revolution in the present method of generating steam for steam power. Hearing nothing further upon the subject, we had concluded that this, like a large portion of the inventions which are from time to time announced, had proven valueless when put to practical work. Such, however, appears not to have been the case. The inventor, during the summer, has submitted his invention to the examination of high scientific authorities, and to gentlemen of extensive practical experience, who have approved of the same, and who predict for it the fullest measure of success.

Among those who have examined into its merits is Mr. Horatio Allen, of the Novelty Iron Works, of New York. Mr. Allen is well known as one of the most skillful and practical mechanical engineers on the continent, and in that department stands at the head of the well known firm with which he is connected. So well satisfied has Mr. Allen become of the utility and importance of the invention, that he has become the President of a company, which has recently been organized to introduce this new steam generator to the world. The company has started with a capital of $2,100,000, and it purposes to grant the right of using the invention to manufacturers throughout the world, for a reasonable royalty upon each horse power. If the invention realizes all that is claimed for it by the inventor and other practical engineers, it will work such a revolution in steam power, that henceforth the most valuable and most dangerous of human agencies will become the most docile and beneficent. Those who are interested in scientific improvements will find it worth their while to read attentively the following description of this apparatus, which we clip from the Chicago *Republican*:

The great problem how to cheapen steam power and rob it of its terrors, seems to have been solved by an Illinois inventor. We had the pleasure, a few days since, of examining the superheated steam generator of Mr. E. Danford, of Geneva, now in practical operation at No. 90 West Lake street. There, in a space which might be covered by a medium-sized kitchen-table, is a steam engine of fifteen horse power, all complete, driving two sets of burr-stones, and grinding corn at the rate of 27½ bushels per hour. This engine is driven by steam superheated to from 500 to 600 degrees Fahrenheit. The immense power of this agent may be judged when we state that steam in the locomotive boiler at 100 pounds pressure to the square inch is only 331 degrees of temperature.

Mr. Danford's steam generator consists of a hollow cast-iron globe, 2½ inches thick, suspended in an ordinary furnace. An iron tube enters the globe at the top and is conducted down to a little below the centre where it terminates in a rose sprinkler. By means of an injection pump, about a tablespoonful of water is forced through this tube into the globe at each stroke in the form of spray. The spray does not come in contact with the sides of the generator, for before it can reach them it is expanded into superheated steam. There is no danger of explosion, for no water touches the iron to cause an explosion. The globe will sustain a pressure of 4,000 lbs to the inch. It never becomes red hot, because the steam absorbs the heat as fast as it is generated. Hence there is no danger of weakening the iron, by overheating, or burning it out.

Mr. Danford has demonstrated that there is a positive limit to the expansive power of steam, and that it is impossible as many engineers believe, to resolve it into an explosive gas. His generator has now been in use since May last, and he defies any engineer in the world to blow it up. If this be the fact the importance of his invention in a humane point of view is beyond computation.

But absolute safety is not its only recommendation. It is vastly cheaper than the old tubular boiler. A 15-horse power generator and furnace, complete, may be furnished ready for use for $200. A steam boiler of the same capacity would cost $1,500. Nor is its saving in first cost its most valuable recommendation. Twenty-five gallons of water give the same power as 75 in the ordinary boiler, and there is a saving of over 40 per cent. in fuel in its favor, while so far as appears, it will endure for an indefinite period.

New California Patents.—Among the patents issued at Washington for the week ending November 7th, we notice the following to California inventors:

A Wind-Wheel—Enrl F. Hough, of Martinez, wherein he claims the combination of an apron with the wind or storm board, by which the effectiveness of the mill is very materially increased.

A Bottle Stopper.—John Woolaver, Suisun, a full description of which was given in our issue of the 4th of November; also—

An Instrument for Opening Bottles—by the same inventor, which was also described Nov. 4th. All these patents were obtained through the Mining and Scientific Press Patent Agency.

Ammonia as a Substitute for Steam.—Quite an interest exists at present among French engineers, growing out of the late discussion of the proposition for the employment of ammoniacal gas for propelling carriages, and a patent for an ammonia engine has been taken out in the United States. The gas is condensed by cold, and the liquid ammonia thus prepared is put in a reservoir, connected by a pipe and stop-cock with a working cylinder. At the ordinary temperture of the atmoshere, the liquid expands into gas with great force, and when the cock is opened the gas rushes into the cylinder and works the piston in the same manner as steam. It is then condensed by water, for which it has a strong affinity. The quantity of liquid ammonia used in an hour as an equivalent to the power of one horse, does not exceed three gallons, weighing twenty-two pounds. The water used to absorb it is saved and the ammonia recovered and used over again. It has long been a favorite purpose of inventors to compress air so as to store up power in a form capable of easy transportation. This problem is solved by the application of liquid ammonia. Great things are expected from this invention.

A Practical Success.—We have recently given Easterle's invention for throwing carriage wheels out of railroad tracks a careful test, and are thoroughly satisfied of its practical utility. It saves a carriage from rocking by sliding and slewing around when driving in or out of the track; keeps the tire from wearing away at the outer edge, and prevents it from slipping from the felloes, and strengthens the wheel materially by preventing the splitting of the felloes. With the aid of this simple invention, buggy-riding in the streets cut up by railroad tracks, in place of being difficult and dangerous to life and limb, becomes in reality more easy and pleasant than on streets merely paved with rough cobbles. The inventor will be ready to supply all who desire with his ingenious contrivance at the shop of A. L. Batch, 118 Bush street, next week.—*Alta.*

The above is a California invention, and Mr. Esterle has applied for letters patent through the Agency of the Mining and Scientific Press.

A Mechanician.—Appold, the English mechanician, who died recently at Clifton, was so much in favor of labor-saving, that everything about his house that could be made so was automatic. The doors opened as you approached them, and closed after you had entered; water came unbidden into the basins; when the gas was lighted the shutters closed; a self-acting thermometer prevented temperature rising or falling above or below certain fixed points, and the air supplied for ventilation was both washed to cool and screened to cleanse it from blacks. Even the gates of his stable-yard opened of themselves as he drove through, and closed without slamming. Mr. Appold was a dresser of furs by a secret process, which he practiced successfully for many years, and which secured him a practical monopoly of the trade, and he always maintained that his was a far more effectual way of working an invention than any patent.

Copper Rolling in the United States. From the report of the eighth census it appears that there are seven establishments in the United States for copper rolling. These establishments employ 413 hands, and have a capital invested of $2,470,000. The cost of material consumed by them is valued at $2,537,000; the cost of labor at $157,080; and the annual value of products for the year ending 1st of June, $3,198,767.

A national exhibition of industry has been opened in Moscow. It comprehends 15,000 articles, contributed by 896 exhibitors.

Inventions will Never Cease.

Many people have doubtless exclaimed as they read the long weekly list of "claims" in our columns, "Will this tide of invention never stop?" and indeed it may have seemed to them that the time must come at last when there would literally be "nothing new under the sun," and the field of invention be tilled to exhaustion. But still each week brings forth its scores, each year numbers its thousands of new machines for lightening human toil; and the eye of the thinker, gazing upon the present and future necessities of the world, can plainly see that as long as humanity aspires to greater comfort and happiness, the flow of new devices will be constant; that as long as wise laws encourage the efforts of those heroic dreamers, the inventors, so long will the cabinets of the Patent Office bear a constantly increasing weight of their precious burden.

The spirit of invention, like every other exercise of the human mind, springs from and is developed by necessity. The red man invents no improvement in the canoe, the bow and arrow, or the rude snares he inherited from his fathers, because his wants are few; but the civilized man feels the pressure of needs of which the savage has no idea. He wants a house, and he invents machinery to shape for the purpose the rude materials around him. He wishes for tools to till the soil, and forges are kindled to produce them. Rising above mere physical desires, he sighs for something more than the dim traditions of the past, preserved only in musty manuscripts hidden in lonely cloisters, and lo! a simple combination of mechanical elements flings broadcast the light of knowledge, so that he who seeks may learn alike the truths of science or the visions of the poet, the occurrences of his own neighborhood or the faint legend of far-off lands, and thus as man advances higher in the scale of existence his wants are multiplied, and these wants produce "invention." May we not safely say that as long as man is capable of feeling a new desire or a new necessity, just so long will new devices be produced to meet them?—*American Artisan.*

New Patent Iron Doors.—Among the pateats issued recently in England, is one for iron doors, the invention of Mr. Joseph T. Harris. These doors are intended as a substitute for wood, and can be produced at almost the same cost. When fixed and painted it will be difficult to distinguished them from any kind of wooden doors, as they will be precisely the same in appearance, and will open and shut with equal facility. They are especially adapted for dwelling houses, offices, and public buildings, and, indeed for every purpose for which wooden doors are now used, their great merit being their extra security, lightness, and durability, in addition to which they can be made perfectly fire-proof, and are not liable to shrink, as is the case with wood.

The Bessemer process for the manufacture of rails is being adopted at Dowlais, and from which important results are expected. Experiments are being made with the view of trying the durability of rails coated only with Bessemer steel, and not made entirely of that metal. If this can be successfully carried out, there will be a great saving effected in price, for the cost will be but little more (perhaps £2 to £3 per ton) than for ordinary iron rails. As a proof of the superiority of Bessemer steel rails, it may be stated that on the South Eastern Railway a steel rail was laid down opposite an iron one, and the latter had to be replaced twelve times before the steel rail was worn out.—*London Mining Journal.*

Car Brakes Operated by Electricity. Mons. Achard, a French civil engineer, has invented a means of operating brakes, so that they can be immediately applied to all the wheels of a railroad train, by touching a small lever, which has the effect to break an electric current, and thereby release the brakes which are then forced against the wheels by springs. If the locomotive breaks from the train, or any coupling breaks, the electric wire will also break and the detached cars will be stopped. This invention has been recommended to the Emperor Napoleon for the fifty thousand francs, offered for the best application of the votalic pile.

The old hall in the Patent Office is soon to be fitted up and thrown open to the manufacturers of the country. Show cases will be admitted containing specimens of American manufactures in all their branches.

The Great Northern Railroad is about to introduce a system of consuming the smoke of the locomotives, and thereby at the same time manufacture the necessary gas for lighting the trains.

Two thousand six hundred tons of iron have been purchased in England, for the DesMoines Valley Road. It will be shipped from Liverpool the 1st of February, via New Orleans.

MINING AND SCIENTIFIC PRESS

PATENT AGENCY.

For the Pacific Coast.

Office of the Mining and Scientific Press—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The first question that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them at our office, or to advise them by mail, or through the Mining and Scientific Press. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveatee to notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

Should you wish us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may now obtain patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensues. If the application is rejected we cause thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, our Washington agent has access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the actual labor involved, payable only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to urge their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of each a matter. Our terms far such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed one inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement an some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: Dewey & Co., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready we send them to the inventor by mail, for his examination, signature and affidavit, with a power of attorney, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars, is required.

Inventors who do business with us will be notified of the state of their application in the Patent Office, when it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be forwarded.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delay on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 yrs and 6 mos...	$10
On every application for a design, for seven years.....	15
On every application for a design, for fourteen years.....	30
On every application for a patent, for seventeen years...	15
On every caveat.....	10
On issuing each original patent.....	20
On filing a disclaimer.....	10
On every application for a reissue.....	30
On every additional patent granted on a reissue.....	30
On every application for an extension.....	50
On the grant of every extension.....	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C....	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

N. B.—We make out our own forms for applications, etc., and would respectfully inform all parties that we have on printed blank forms for sale.

DEWEY & CO., Agents,

Mining and Scientific Press Office, No. 505 Clay street, corner of Sansome, San Francisco.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

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It is Impossible for editors to know ALL the merits and demerits of their correspondence, consequently the reader must not receive the opinions of our contributors as our own. Intelligent discussion is invited upon all sides and the evidence of any error which may appear will be received in friendship and treated with respect.

American and Foreign Patents.—Letters Patent for inventions can be secured in the United States and foreign countries through the MINING AND SCIENTIFIC PRESS PATENT AGENCY. We offer applicants reasonable terms, and they can rest assured of a strict compliance with our obligations, and a faithful performance of all contracts. For reference, we will furnish the names of numerous parties for whom we have obtained patents during the past two years.

Favorable to Inventors.—Persons holding new inventions of machinery and important improvements, can have the same illustrated and explained in the MINING AND SCIENTIFIC PRESS, free of charge, if in our judgment the discovery is one of real merit, and of sufficient interest to our readers to warrant publication.

Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the system.

San Francisco:
Saturday Morning, Dec. 23, 1865.

A State Mining Convention.

Pursuant to the request of several mining journals and representative mining individuals, the association known as the "California Mining Bureau," of San Francisco, through their Board of Trustees, have issued the following call for a Mass Convention of the miners of California:

RESOLVED, That a Mass Convention of the miners of the State of California, be and is hereby called to assemble in the city of Sacramento, on WEDNESDAY, the 17th of January, A.D. 1866, at 12 o'clock, and that any person engaged in actual mining operations shall be eligible to a seat in said Convention.

JOSEPH W. LOW, Vice-President.
J. B. WHITCOMB, Recording Secretary.
San Francisco, December 6, 1865.

OUR NEW U. S. SENATOR.—The present Legislature has signalized itself as one of pre-eminent merit, by the promptness with which it has disposed of the Senatorial question; a matter which has heretofore, whenever it has come up, been the signal for the most disgraceful scenes which have characterized our legislative history. In the selection of the HON. CORNELIUS COLE, for the responsible position of U. S. Senator to succeed Mr. McDougal, if the choice has not been that which all might wish (and such a condition of things could not be expected), there is no one who is not ready to admit that a man has been selected eminently fitted for the position, and than whom none other could be found who possesses to a greater degree the confidence and respect of the people at large. No man can say ought against his record as a patriot, and an honest and intelligent representative of California interests. He has also been elevated without resort to mere political combinations, and will go to Washington as the representative of the people and not a faction. The mining interest might have desired a man more intimately connected with its development; but they have, at all events, got a safe and honest man; and the way is now open for a full and acknowledged representative of their peculiar interest at the next election, two years from this time.

A NEW OIL DISTRICT has been discovered in Tennessee, which, it is said, bids fair to rival that of Pennsylvania. It is on Eagle Creek, near Obey river, on the Kentucky border. Oil in considerable quantity is found there, within thirty feet of the surface. Geologists and oil men are delighted with the prospects, and great numbers of capitalists and others are rushing in. Large quantities of land has been purchased or leased, and a great number of wells is being bored. The facilities for getting the oil to market are very good.

A SUITABLE PRESENT.—Persons wishing to present their friends, in the Eastern States, with an acceptable gift from California, will do well to subscribe for and send them the MINING AND SCIENTIFIC PRESS for 1866. It will be thankfully received, both for its merit as a record of California enterprise and progress, and as a weekly reminder that they are not forgotten by the absent ones from home.

THE MINES IN THE LEGISLATURE.

Our State Legislature appears to take hold of mining matters in earnest, and in a manner which evinces a thorough knowledge of the work before them and a determination to act promptly. Among the earliest acts is a prompt effort to secure our mines from being "gobbled up" by one or two railroad companies. It appears to be the evident intent of the Central Pacific Railroad Company to secure possession of valuable mineral lands and town and settlers property, by virtue of the Act of Congress granting to that Incorporation certain lands along the line of the railroad; notwithstanding said act especially reserves from said lands, thus denoted, all mineral lands and pre-emtion or homestead claims, and certain other specified grounds. In view of this fact, Senator Belden of Nevada has introduced a coucurent resolution and memorial to Congress, asking that body to take such steps as shall preserve for the benefit of the miners, all such land, not hitherto developed, as may reasonably be expected to contain mines of the precious metals; and to secure to ditch and water companies, now in active operation, all water rights and privileges now held and used by them, together with the right of way, etc; also that the improvements of all *bona fide* settlers shall be respected by said companies, to the extent of 160 acres for each occupant—or at least that provision shall be made whereby such settlers shall be allowed the privilege of perfecting their titles by paying to the railroad company the sum of $1.25 per acre for the same—the railroad to be entitled, when passing over such lands, to the ordinary right of way only.

The Governor is requested to transmit, without delay, a copy of the resolutions and memorial to our Senators and Representatives in Congress. This measure is one of the utmost importance, and the Legislature has done well to entertain it thus early and promptly. The matter was referred to the Committee on Federal Relations, with instructions to report as soon as possible.

NO SALE OF THE MINERAL LANDS.

The Committee on Mines and Mining have reported a series of resolutions to the Assembly, in opposition to the sale of the mineral lands. By the resolutions, our Representatives in Congress are instructed to use all honorable means to defeat any and all measures having for their object the sale of the mineral lands. In addition to this action, the Nevada *Transcript* very properly remarks that the miners throughout the State are almost unanimous in their opposition to any scheme for the sale of the mines, and there seems to be a strong disposition in the Legislature to act in accordance with their wishes, and protest against any action of Congress for changing the present policy of the Government in regard to mineral lands.

THE ACTUAL OCCUPANTS TO BE PROTECTED.

In the Assembly, on Monday last, Mr. Pattison, of Nevada, introduced a bill for "an act acquiring and maintaining titles to quartz claims." It was referred to the Committee on Mines. This bill is stated to be an effort to have enacted into statute law, a set of regulations similar to those adopted by the quartz miners of Grass Valley and the rest of Nevada county, and which have been generally adopted as, or made the basis of, the mining laws of other districts throughout the State. It is intended to fix the mode in which possession of a claim shall be taken and its limits marked, and how that possession shall be maintained, and what shall constitute abandonment.

CONGRESSIONAL LEGISLATION PROPOSED FOR THE OCCUPATION OF COAL LANDS AND TOWN PROPERTY.—On Monday last, Mr. Conness introduced a Bill into the U. S. Senate, to so amend the Act for the disposal of coal lands and town property, so as to allow the right to enter 160 acres on coal land to any person actually engaged in coal mining upon the premises, at the passage, and fixes the price at $20 per acre. A declaration and descriptive statement of such lands and improvements are required to be filed within one year from the passage of this Act, and proof and payment within one year thereafter. Referred to the Committee on Public Lands.

A NEW SOURCE OF PETROLEUM AT THE EAST.

Professor A. L. Fleury, a well known chemist of New York, has communicated to the *Oil News Journal*, of Pittsburgh, Penn., the particulars of a very remarkable discovery, recently made near the town of Mecca, Ohio. It appears that Mr. Calvin Adams, of Pittsburgh, having bored a shallow well near Mecca, and finding that the pumps did not yield as satisfactorily as he had anticipated, concluded to resort to a somewhat novel expedient of drainage to obtain the oil. He first sunk a central shaft to the bottom of the oleaginous deposit, some forty-five feet, then sunk several others at short intervals in a circle around the first; placing a pump in the central shaft, he connected that with each of the others by radiating drifts. He thus obtained an immense drainage area, the yield of which fully realized his expectations. The strata from which this oil was obtained consisted of about fourteen feet of a yellowish brown clayey substance, impregnated with the best quality of lubricating oil. The Professor having learned that some other parties who held claims, having the same substance, had recently erected works for extracting the oil from the rock by a process of retorting, instead of relying upon pumping, took some of the rock from Mr. Adams' claim, and found that it contained forty-five gallons of oil to the ton of rock. Of this substance the Professor says:

Placed under the microscope this oil-rock appears to be a conglomerate of clear, white quartz crystals cemented together by a wax-like (paraffin and naphtalin) substance. The odor also being of an agreeable aromatic kind, indicates the presence of a hydro-carbon. When thrown on a white hot plate, a gas is driven from the sand, taking fire with a clear white flame.

I intend to make a series of experiments, with a view to ascertain the amount of gas and light produced from a given quantity of the rock, as well as the amount of paraffin and lubricating oil.

The extraction of the oil from the sand-rock by means of steam or heated water, is not successful, small quartz crystals being carried with the oil that make it gritty. Mr. P. H. Gengembre, of Pittsburgh, is the inventor of a system that is cheap and most effective, the oil produced being pure and without grit. As much as fifty tons can be treated per day, the cost of which, in my estimation, does not exceed $200 per day. Unless *continuous* treatment is applied, the handling of twenty-seven to thirty cubic feet of sand per ton is exceedingly costly.

The sand, when deprived of all its oil, is perfectly white, and could, in my opinion, be used for making glass, and perhaps bring $6 to $8 per ton.

The Professor concludes, from a careful examination, that an almost unlimited quantity of this rock exists about Mecca, at depths varying from ten to forty feet. It can, therefore, be easily drifted and sent to the surface. He further thinks that this discovery is but the pioneer of numerous others which will constantly be made in all parts of the oil regions, and in every State where lubricating oil is found. If this expectation should be realized, it will add a new field to the great oil interests of the East, fully equal, if not of greater magnitude, even than the pumping and flowing wells hitherto opened. We shall watch with interest for further developments in this direction. The Professor says that quite a number of companies are already raising and working this oil deposit; but that they conduct their operations with much secrecy, the public knowing but little of what they are doing.

RAILROAD SURVEY.—Mr. Allardt, civil engineer, has completed his preliminary survey of the railroad line from Nevada to Colfax. The distance, as the line is run, is twenty-one miles. It is the intention of Mr. Allardt to run additional lines at some points, with the view of improving the route, if found practicable. The report will soon be published, with a map of the country through which it passes.

THE COPPEROPOLIS RAILROAD.—The contract for building and furnishing the railroad from Stockton to Copperopolis has been let to Messrs. C. A. Mayle and Richard Ivers, who are to receive $1,250,000 on turning the road over to the corporation in perfect running order.

General Rosecrans on Silver Mining in Nevada.

The Boston *Advertiser* publishes the following extract from a letter from Major General William S. Rosecrans, to a gentleman in that city. The letter is under date of September 8th, 1865, and gives a brief summary of the conclusions upon mining matters, to which the General arrived during his late visit to this State and Nevada. The article will be read with much interest by Californians:

"I will give you, and through you for the benefit of others in Boston, to whom schemes and mines shall be presented, a few general observations and principles, which, in my judgment, will or should control the silver mining, and the purchase of mines for that purpose, in this country.

"1. The number of lodes of silver ore is almost unlimited in Nevada, and no part of the State shows more lodes or richer ores than Reese River.

"2. Therefore many of great richness of ore must remain utterly without value, present or prospective, for years to come; hence, not every "large" lode, however promising the ore, should be purchased.

"3. No reduction works should be erected upon a single lode, however promising, lest the at least temporary failure of adequate supply of ore should entail losses on the company.

"4. Only those mines which have several lodes in such proximity to each other as to be easily and economically worked by the same superintendent, and with a single set of machinery for pumping water and hoisting the ore, are likely to be truly successful.

"5 This is the more important in this country where the whole surface of the country is a net work of small rich lodes, running parallel to and crossing each other in every direction and often only a few feet apart, because these spurs and cross cuts add to a company's chances of increased profit and success, and gives it, moreover, all the benefit of its own draining, shafting, tunneling, and ventilation.

"6. Whoever buys single mines—mines far apart, or high in the hills and of difficult access—must expect to lose money by it, or to hold them as "permanent investments."

"7. It ought to be known to the public that much of the mining is at present speculative, and most of the money that is made off unfortunate purchasers of mines, at high prices, goes into the hands of middle men, who are quite willing to profit by the losses of both capitalists and miners.

"Such is the feverish eagerness of the poor locators and proprietors that they hasten to give deeds in fee to some adventuring speculator, who starts for the East to sell their mines for all they can get, regardless of what becomes of the mine or the purchaser.

"But on the question of the really almost unlimited quantity of the precious metals in Nevada, and of the existence of the necessary salt, water, fuel, and other necessaries for their mining and reduction in such a way as to amply remunerate well directed capital, I entertain no doubt; nor do I think any other attentive observer would. Really, all that Bishop Simpson said about the quantity of silver in this State, fanciful as it may appear to those who have not been here, is no exaggeration.

SOMETHING NEW—AN, INK MINE (?)—A party has recently arrived at Los Angeles, from the vicinity of Buena Vista Lake and the oil springs there, having in his possession a bottle containing, according to the *News*, "a mineral substance very much resembling crude petroleum, but without any smell, and possessing all the qualities of a fine writing fluid. Several experiments were made by different persons, and all pronounced it a good quality of ink, or fluid, for writing. We dipped our pen in the fluid and wrote several lines, and could not distinguish the difference between it and the best writing fluid now in use. When first used the color is a deep, rich black, but after exposure to the air the color moderates a little, still retaining a good, and to all appearances, durable color. A company is being formed for the purpose of testing the above discovery."

THE OAKLAND NEWS came to us the past week printed on a half sheet. It was burned out a short time since, but will soon appear in its former proportions, printed upon entirely new material.

ANOTHER MINING ASSOCIATION.—A meeting of the miners of Volcano, in Amador county, was to have been held on the 16th instant, for the purpose of organizing a "Miners' Association."

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

San Francisco, Saturday Morning, December 23d, 1865.

The mining share market has exhibited considerable animation since Saturday last, and nearly all stocks are in better request at enhanced rates. In some instances a material improvement took place, imparting new life and activity to the Board, and reviving the former faith of many dealers in the future value of different claims on the Coastock.

Gould & Curry rose from $820 to $897½, receded to $850, advanced to $950, and closed at $900 asked.

The annual exhibit of the affairs of this company is regarded with favor by most of the stockholders. There have been taken from the mine the past year 47,217 tons of ore, at an expense for mining of $10.84 per ton, divided as follows: First class, 1½ tons; second class, 472 tons, and third class, 45,227 tons.

The company's mill reduced 35,684 tons, including 3,892 tons tailings, yielding in bullion $1,560,359.19, at an expense for reducing of $14.46 per ton, with an average yield of $44.26 per ton. Custom mills worked 14,229 tons, producing bullion to the amount of $749,901.67, at a cost for working of $22.83 per ton. The yield of bullion was greater by $2,464,401.15 in 1864 than in 1865. The difference in the production of the two years is owing chiefly to the sending of a greater amount of ore in the previous year to custom mills, which supplied more than four times as much bullion in 1864 than in 1865. The quantity of ore worked in the company's mill in 1864 was 12,602 tons—much of it second class, at an expense of $40 per ton, while in 1865 that mill has worked 35,684 tons, third class, at a cost of $14.40 per ton. The amount of ore extracted and worked in 1864 was 36 per cent., or 16,545 tons in excess of 1865. In 1865 the average yield of ores was $44.26. Dividends paid, 25½ per cent. of gross yield. In 1864 the average yield of ores was $73.48. Dividends paid, 40 per cent. of gross yield. In 1864 the average yield of ores were $80.40. Dividends paid, 37½ per cent. of gross yield—showing the dividends paid of the present year, in comparison with the average yield of ores, to be 6 per cent. greater than in 1864, and 20 per cent. more than in 1863. The superintendent estimates the reserves of ore on the adit level to the north of the old chamber at 3,000 tons; in the east chamber, including all the upper portion as far north as D street level, at 15,000 tons; in the north mine, to A street level, at 10,000 tons, and above the A street level at 2,000 tons—in all 30,000 tons, worth from $35 to $50 per ton, or an average of about $42. These estimates do not embrace the ore-bearing seams known to exist near the south end of the mine. None of the explorations below the lower tunnel in the 2d and 4th stations have developed a body of ore, nor was this to be expected. It is known that in the lower levels the center of the claim is filled by a large mass of porphyry, and it is only to the north and south of this that ore-bearing quartz can be found. It is believed that the porphyry will be but of moderate width on the fourth station, and that it will disappear on those still deeper. The drift to the north and south, now being run from the second station, will soon be out of this mass of porphyry, and ore may be discovered at any moment. This company is now entirely out of debt, and the cash value of the timber, wood, quicksilver, and other materials now on hand and paid for, exceeds $250,000. No further disbursements of any moment will be required for supplies until May next. During the ensuing five months, therefore, the current expenses of the company will be $50,000 less per month than they otherwise would be if these necessary supplies to the mine and mill were to be bought and paid for as required. The receipts of bullion during the first fourteen days of December from the company's mill alone, amounted to $50,000, and the aggregate expenses of the mine and mill will, it is thought, not exceed for the present $75,000 per month.

Savage has attracted considerable attention this week, and is in better request, some 240 feet changing hands, advancing from $720 to $1,040, receding to $880, rallying to $960, dropping to $825, and selling yesterday at $910@$875. Receipts of bullion thus far during the month amounted to $125,000. The Piute and Santiago mills are reducing some 60 tons of ore per day from the lower level of this mine, yielding $75@$85 per ton; and from the upper works about 90 tons daily are being taken, which yield $51 to $55 per ton.

Yellow Jacket has been active at better prices, and 150 feet were sold, advancing from $355 to $460, and dealt in yesterday at $440@$450. The northeast breast of ore on the 230-feet level show some improvement, and a prospecting shaft sunk at that point is now down 20 feet in good ore. During the week ending December 11th, 747 tons of ore were extracted, and 677 tons were reduced, yielding $20,714.65, an average of $30.35 per ton. At the company's mill 445 tons were worked.

Crown Point is in more favor, and some 50 feet were sold, receding from $435 to $410, advancing to $510, then selling at $500, and closing yesterday at $485. During the week ending December 15th, 279 tons of ore were raised from the 230 and 300-feet levels, and the different inclines from the former now connect with the latter level. The main drift from the 300-feet level has been driven 70 feet from the east stratum, and will, it is thought, soon reach the west body of ore found above.

Ophir advanced from $285 to $350, dropped to $280, rose to $335 and then sold at $320@360. A meeting of the stockholders will be held January 15th. A detailed statement of the operations of this company for the past year will be given next week.

Alpha rose from $140 to $200, receded to 180, rallied to $215, declined to $190, advanced to $225, and was dealt in yesterday at $275@$320. Within this range 110 feet were sold. Belcher has improved, and some 25 feet were sold, advancing from 140 to 170, and closing at $150.

Chollar-Potosi is in better request, and nearly 700 feet changed hands, rising from $115 to $145, and selling yesterday at $132@$150. The cross-cut in the drift on the south end of the Bajazet chimney discloses a body of ore 30 feet wide. In the old works between the 3d and 4th stations of the Chollar, a stream of ore four feet wide has been found, a portion of which yields $300@400 per ton, and the balance $40@50. During the week ending December 17th, 292 tons of ore were sent to custom mills, 231 tons were sold at $8, and 137 tons at $5. Some 14¼ tons first-class ore also was sent to Dall's mill.

Empire Mill and Mining Company met with small sales, within a range of $175@186, closing at $185 bid. During the year ending Nov. 30th, 16,000 tons of ore were reduced, yielding $485,542.49, an average of $30.34 per ton. The receipts from other sources amounted to $58,539.30, and the liabilities of the company on the 30th ult. were $14,329.17. The disbursements for the year mentioned amounted to $525,129.79, including $120,000 paid in dividends. The cash assets of the company, embracing supplies, etc., November 30th, were valued at $32,287.17. Since the 1st instant, shipments of bullion have cancelled the above liabilities, so that the company are *now* entirely out of debt.

Imperial rose from $86 to $105, receded to $95, rallied to 110, then sold at $103, and was dealt in yesterday at $96@104, some 1,100 shares in all changing hands. During the six months ending November 30th, 15,223 tons of ore were reduced, producing in the aggregate $584,803, and the receipts from other sources amounted to $17,928. The total disbursements during the same period amounted to 661,495, including $200,000 for dividends paid. The indebtedness of the company, November 30th, was $68,760, of which amount $13,864 has since been cancelled. The bullion product for November amounted to $66,584, from 2,930 tons of ore, an average of $22½ per ton. Receipts thus far the current month are about up to the average of last month.

Hale & Norcross rose from $95 to $250, and closed at $270. An assessment of $50 per foot was levied December 13th. Confidence rose from $15 to $27, dropped to $26, and sold yesterday at $24. An assessment of $25 per share was levied December 19th. Overman rose from $30 (assessment delinquent) to $50, and sold yesterday at $50. Bullion advanced from $10 to $23, then sold at $25, and closed at $25.

The aggregate sales of Stocks, since Saturday last inclusive, amounted to $850,545.

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl	6 50 @ 7 00
Do Superfine	8 25 @ 6 75
Corn Meal, ₱ 100 lb	@ 3 50
Wheat, ₱ 100 lb	1 95 @ 2 00
Oats, choice, ₱ 100 lb	1 60 @ 1 85
Barley, ₱ 100 lb	1 05 @ 1 10
Beans, ₱ 100 lb	2 25 @ 3 50
Potatoes, ₱ 100 lb	90 @ 95
Hay, ₱ ton	15 00 @19 00
Live Oak Wood, ₱ cord	8 00 @10 00
Beef, on foot, ₱ lb	8@ 7
Beef, extra, dressed, ₱ lb	12½c@ 15
Sheep, on foot	1 00 @ 2 00
Hogs, on foot, ₱ lb	9 @ 10
Hogs, dressed, ₱ lb	14 @ 15
Groceries, Etc.	
Sugar, crushed, ₱ lb	18½@ —
Do China	10 @ 12½
Coffee, Costa Rica, ₱ lb	27½ @ —
Do Rio	26 @
Tea, Japan, ₱ lb	85 @ 95
Do Green	70 @ 90
Hawaiian Rice, ₱ lb	10 @ —
China do.	8 @ 10
Coal Oil, ₱ gal	1 15 @ 1 25
Candles, ₱ lb	24 @ 28
Ranch Butter, ₱ lb	55 @ 75
Isthmus do	35 @ 42½
Cheese, California, ₱ lb	20 @ 26
Eggs, ₱ doz	60 @ 70
Lard, ₱ lb	24 @ —
Ham and Bacon, ₱ lb	25 @ —
Shoulders	20 @ 22
Soap—Pale & C. O	10 @ 13
Castile	12 @ 13

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	80@ 90
do pickled ₱ lb	65@ 75
do Oregon	40@ 60
do New York, ₱ lb	45@ 65
Cheese, California, ₱ lb	25@ 35
Honey, ₱ lb	30@ 40
Eggs, ₱ doz	75@ —
Lard, ₱ lb	@ 30
Hams and Bacon, ₱ lb	28@ 30
Cranberries, ₱ gal	@ 1 00
Potatoes, sweet, ₱ lb	5@ 8
do Irish, ₱ lb	1@ 2½
Tomatoes, ₱ lb	5@ 8
Onions, ₱ lb	4@ 8
Apples, No. 1, ₱ lb	4@ 10
Pears, table ₱ lb	3@ 10
Plums, dried, ₱ lb	15@ 25
Peaches, dried, ₱ lb	15@ 25
Grapes, ₱ lb	5@ 15
Oranges, ₱ doz	75@ 1 00
Lemons, ₱ doz	1 00@ 1 50
Chickens, apiece	75@ 1 00

Engravings Cuts, Engravings, Etc.—Our Job Printing Office is abundantly supplied with elegant engravings, ornaments, and other embellishments to suit the various branches of industry in this State.

San Francisco Stock and Exchange Board.

San Francisco, December 23, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ —	$ 74
Gov. Legal Tender Notes	67	67¼
State Bonds, 7 ₱ cent	83	85
San Francisco 10 ₱ cent	..	..
San Francisco Bonds, 1855, 6 ₱ cent	70	..
San Francisco Bonds, 1858, 8 ₱ cent	65	..
Sacramento City Bonds, 6 ₱ cent	..	..
Sacramento County Bonds, 6 ₱ cent	50	55
Marysville Bonds, 10 ₱ cent	..	..
Stockton Bonds, 10 ₱ cent	..	..
Yuba County Bonds, 10 ₱ cent	..	78
Butte County Bonds, 10 ₱ cent	65	80
California Navigation Co	58	57
State Telegraph Stock	20	..
San Francisco Gas Co	102½	104
Sacramento Gas Co	..	76
Spring Valley Water Co	55	57
RAILROADS.		
Sacramento Valley Railroad	..	
Omnibus Railroad	42	45
Central Railroad Co	..	65
North Beach and Mission	43	45
MINING STOCKS.		
Ophir	$ 330	$ 365
Gould & Curry	820	900
Empire M. & M. Co	....	....
Sierra Buttes Quartz Co	....	....
Central	....	....
California	....	....
Savage	900	910
Chollar-Potosi	150	155
Hale & Norcross	102	104
White & Murphy	....	....
Sierra Nevada	5	7
Daney	..	..
Burning Moscow	..	..
Lady Bryan	..	..
Sacramento & Meredith	....	....
Burnside	....	....
North American	....	....
Baltimore American	....	....
Yellow Jacket	425	430
Overman	45	50
Cedar Hill Tunnel	....	....
Wide West	6	7
Crown Point	480	490
Antelope	....	....
Emeralda	1	5
Ætna	....	....
Real del Monte	..	15
Silver Hill	....	....
Utah	....	....
Justis	..	..
Josephine	....	....
Bullion, G. H	..	71
Buckeye	....	....
Dick Sides	....	....
Imperial	102	104
Alpha	300	310

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	*Date of Levy.*	*Am't per foot*
Baltimore American	Nov 18	2 00
Belcher	Dec 15	100 00
Belcher, Baldwin & Abernethy	Dec 15	105 00
Bullion	Nov 26	10 00
Cole	Nov 25	1 00
Caledonia T & M Co	Nov 10	2 00
Exchequer	Dec 16	2 00
Gold Tunneling	Dec 8	75
Hale & Norcross	Dec 16	26 00
Jura	Dec 7	75
Jewett	Dec 8	1 00
Milton	Nov 30	6 00
North American	Nov 16	6 00
Overman	Nov 18	25 00
Schiller	Nov 11	1 00
Sides	Dec 1	3 00
Sierra Nevada	Nov 28	3 00
United States	Nov 15	50
Yellow Jacket	Nov 14	100 00
420, S. M. Co	Dec 1	6 20

Delinquent Sales.

Name of Company.	*Date of Sale.*	*Place of Sale.*
American Basin	Dec 18	Virginia
Alhambra	Dec 22	San Francisco
Caledonia T & M Co	Dec 21	San Francisco
Globe	Dec 30	Virginia
Gold Hill T & M co	Dec 21	San Francisco
Kennedy	Dec 22	Virginia
Mount Davidson	Dec 20	San Francisco
North Comstock	Jan 13	Virginia.
Sand Springs, Salt	Dec 15	Virginia
Utah	Jan 3	Virginia
Yellow Jacket	Jan 15	Gold Hill.

Montana.—The U. S. *Times* says that the Secretary of the Treasury has received a letter from the Collector of Internal Revenue for Montana Territory, stating that the product of bullion in Montana for the year 1865 will be upwards of $18,000,000. Rather a heavy figure, we should judge.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELING'T LIST.	DAY OF SALE.
Adams, Petroleum, $5			Jan 11—Jan 25
Agawam, Nye co., Nev		Annual Meeting, Jan 13*	
Agawam, Nye co., $1			Jan 13—Jan 27*
Alhambra, Lyon ca., Nev., $1.50			Dec 9—Dec 22
Alban, Storey co., Nev., $1			Jan 9—Jan 20
Arroyo Seca, Amador co., $4			Jan 3—Jan 17
Alpha, Storey ca., Nev., $50			Jan 18—Feb 17
Adriatic, Storey co., Nev		Annual Meeting, Jan 2	
Baltimore American, El Dorado co., $2			Dec 20—Jan 3
Boston, El Dorado Co., 50c			Dec 22—Jan 8
Buckeye, Lyon co., Nev., $3			Jan 3—Jan 20
Bullion, $10			Levied—Nov 25
Bunker Hill, Amador co., $5			Jan 6—Jan 20*
Blue Ledge, El Dorado co., $1.50			Jan 13—Jan 27*
Bunker Hill, El Dorado co., $1.50			Jan 20—Feb 2
Caledonia Tunnel, Gold Hill, Nev., $2			Dec 23—Feb 3
Cole, Storey co., Nev., $1			Dec 21—Jan 6
Chicaga, Lander co., Nev., $2			Dec 30—Jan 15*
Crown Lead, Mariposa co., $5			Dec 30—Jan 16
Chollar-Potosi, Storey co., Nev., $100			Jan 21—Feb 1
Central		Annual Meeting, Jan 2	
Confidence, Storey co., Nev., $25			Jan 22—Feb 6
Dancy, Lyon co., Nev., $1			Jan 15—Jan 31
Diana, Lander co., Nev., $10			Jan 20—Feb 6*
Exchequer, Storey co., Nev., $2			Jan 17—Feb 1
Florida, Reese River, $10			Jan 2—Jan 16
George Washington, Alpine co., $1			Dec 9—Dec 26*
Golden Rule, Dividend			Payable Oct 20
Gold Hill Tunneling, Storey co., Nev., 75c			Dec 15—Jan 3
Guasaparis, Chihuahua, Mex., $10			Dec 7—Dec 23
Goodwin, Lander co., Nev., $2			Dec 16—Dec 30*
Hanscom, Copper, Del Norte co., 15c			Jan 20—Feb 3*
Hornet, Lander co., Nev., $1			Jan 20—Feb 6*
Hale & Norcross, Storey co., Nev., $25			Jan 15—Jan 29
Honest Miner, Lander co., 50c			Jan 13—Jan 29*
I. X. L., Alpine ca., $3			Jan 2—Jan 16
Jeffrey Oil, Humboldt co., 50c			Jan 4—Jan 15
Jura, Storey co., Nev., 75c			Jan 2—Jan 15
Jewett, Storey co., Nev., $1			Jan 6—Jan 20*
Joe Lane, Lander co., 50c			Jan 13—Jan 29*
Kentucky Copper, Calaveras co., $1			Jan 20—Feb 7*
Keokuk, Contra Costa ca., 10c			Dec 16—Dec 30
Kentuck, Storey co., Nev., $17.50			Jan 3—Jan 15
Kimball's Ravine, Sierra co		Meeting, Dec 26*	
La Fernandez, Sonora, Mex., $5			Nov 23—Dec 23
Lady of the Lake, S. F. Dist., Arizona, 25c			Dec 30—Jan 18*
Leland, S. F. Dist., Arizona, 25c			Dec 30—Jan 18*
Lady Bell, Del Norte co., 10c			Dec 18—Jan 5
La Victoire, Mariposa co., $2			Jan 3—Jan 22
Lady Franklin, Alpine co., 50c			Jan 6—Jan 26*
Lady Bryan, Storey co., Nev		Special Meeting, Dec 27	
Mina Rica de las Flores, Calaveras co., 50c			Jan 2—Jan 22
Maggie, Lander co, Nev., $4			Dec 26—Jan 11
Napoleon, Calaveras co., $7			Jan 23—Feb 3
Nuestra Senora de Guadalupe, Durango, $1			Dec 4—Jan 20
North American, Nev. $6			Levied Nov 15
Nevada, Lander co., $1.50			Jan 13—Jan 29*
Ophir		Adjourned Meeting, Jan 15	
Overman, Storey co., Nev., $25			Dec 19—Jan 3
Orleans Quicksilver, Lake co		Annual Meeting, Dec 30*	
Old Colony, Reese River, $5			Jan 14—Jan 27
Patrocina and Dolores, Chihuahua, Mex., 75c			Dec 28—Jan 16
Farragon, Humboldt co., 25c			Jan 6—Jan 26*
Peninsula, San Antonio, Lower Cal., $10			Jan 15—Jan 29
Rappahoe, Sinaloa, Mex., $2 50			Jan 17—Jan 31
Refugio, Chihuahua, Mex., $2½			Dec 27—Jan 9
Santa Cruz, San Antonio, Lower Cal., $3			Dec 29—Jan 10
Salambo, Tuolumne co., 50c			Jan 3—Jan 22
Siempre Viva, Sinaloa, Mex., $2 50			Jan 6—Jan 20*
Sierra Nevada, Storey co., Nev., $3			Dec 28—Jan 16
Sierra Valley, Plumas co., $1			Jan 5—Jan 20
Santiago, Lyon co., Nev., $1			Jan 22—Feb 10
Sweet Vengeance, Yuba co., $1			Jan 20—Feb 6
Sierra, Douglas, co., Nev., $3			Jan 15—Jan 27
Trinidad and San Jose, Sinaloa Mex., $10			Jan 8—Jan 22
Tirita S M co., $3			Levied, Nov 25
Tuolumne Mountain, 50c			Dec 27—Jan 16
United States, Storey co., Nev., 50c			Dec 16—Dec 30*
United States		Annual Meeting, Dec 25*	
United States, Lander co., $1.05			Dec 30—Jan 15*
Union Mattole, Humboldt co., $5			Jan 19—Feb 6*
Wide West, Alpine co., $1			Dec 16—Dec 30*
Yellow Jacket, Storey co., Nev., $100			Dec 15—Jan 15
Yuba, Brown's Valley, $2.50			Dec 16—Dec 30*
Yankee Blade, Reese River, Nev., $15			Jan 13—Jan 29*
Yosemite Humboldt co., Nev., $1.25			Jan 20—Feb 6*
Zenith, Calaveras co., Cal., $3.25			Dec 9—Dec 23*
"420," Storey co., Nev., $6.25			Dec 28—Jan 13

*Those marked with an asterisk (*) are advertised in this journal.

The Moss Mine.—A party of fifteen first-class miners, from the Gould & Curry mine, of Washoe, under charge of Mr. Stroag, late Superintendent of that mine, has gone to the Colorado to open up the famous Moss ledge, which has lately been purchased, through the agency of Mr. Strong, by a wealthy New York company.

Copper Ore from the Union Mine.—The shipments of copper ore from the Union mine, at Copperopolis, were 124¼ tons for the week ending December 7th; for the week ending December 14th, 432½ tons were shipped.

It is stated that at the funeral of the late Lord Palmerston, the chief mourner threw a number of diamond and gold rings into the grave, when the words "dust to dust, ashes to ashes," were pronounced by the Dean of Westminster.

It is authoritatively announced that a third line of rails will be laid on the Great Western Railway of Canada. Cost estimated at $700,000.

There is a glass pump on exhibition in Worcester, Mass., warranted not to freeze up.

Metallurgy.

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METALLURGICAL WORKS,

—AND—

Practical Mining School,

Bryant Street, Between Third and Fourth,

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THE Proprietors are at all times prepared to work or test Ores sent to this establishment—either in large or small quantities—by such process as may be found best adapted to their chemical character, after a careful analysis has been made. Test lots of Ore adapted to the smelting process attended to. Sulphuret, pyritous, and the (so-called) "rebellious ores," are having especial attention paid to their successful treatment. Assaying in the humid and dry way. Also, refining by cupellation, done at moderate rates.

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The proprietors—encouraged by numerous applications from gentlemen desirous of pursuing the study of practical metallurgy—have concluded to admit parties on reasonable terms. Having in their Mill all the necessary appliances for crushing, roasting, amalgamating, smelting, refining and assaying, as also a well extended Laboratory for the analysis of Ores and Minerals, a good opportunity is here offered to acquire a sound practical knowledge of the business.

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20v11-3m

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Drawing Classes in the Evening will take place as usual. DRAWINGS FOR PATENTS accurately and neatly done.
20v11-1m

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22a*

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A GENTLEMAN OF MUCH EXPERIENCE AS A MINING Superintendent, in England, Spain, and on the Pacific coast, and one intimately acquainted with every department of mining, and with nearly every class of minerals, is desirous of securing a position as Superintendent of some mining operation in California or Nevada. The applicant was for four years Superintendent of the New Almaden Quicksilver Mine, in this State. The best of reference given on application at this office.

San Francisco, Oct. 12, 1865 5v11tf

A Business Compliment.

PETALUMA, Oct. 4, 1865.

MESSRS. DEWEY & CO.—Gentlemen: Your note informing me that my patent for Crushing and Baling Machine is ordered to issue is at hand. Please accept my thanks for the prompt and business like manner with which the case has been conducted, and inclosed find twenty dollars for balance Government fees Respectfully, etc.

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ARTIFICIAL LEG,

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12v11-3m E. H. WILSON, Secretary

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VERY FINE WATCHES FOR LADIES.

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Among others are those of the following forms:

Shareholder's Proxy.

Know all men by these presents, that I, ... do hereby constitute and appoint ..... my attorney and agent, for me and in my name, to vote as my proxy, at a meeting of the ..... Mining Company, to be held ..... 186 , according to the number of votes that I should be entitled to cast were I there personally present.

In witness whereof I have this day hereunto set my hand and seal. .....[Seal]

Dated 186

Assessment Notice.

..... Company

.....

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the ..th day of ....., 186 , an Assessment of .....per share was levied upon the Capital Stock of said Company, payable on the ..th day of .....186 , in United States gold and silver coin to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the ..th day of ....., 186 , will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on ....., the ..th day of ....., 186 , to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees.

..... Secretary.

Office.....

NOTICE.—There are delinquent, upon the following described Stock, on account of assessment levied on the ..th day of ..... 186 , the several amounts set opposite the names of the respective shareholders as follows, to wit:

Names.	No. Certificate.	No. Shares.	Amount.
Theophilus Thistle	23	1	$140 00
Peter Pipe	2	3	30 00

And in accordance with law and an order of the Board of Trustees, made on the ..th day of ..... , 186 , so many shares of each parcel of said stock as may be necessary, will be sold at the.....

....., on ....., the ..th day of....., 186 , at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

..... Secretary.

Office.....

☞ Our advertisers are furnished with blank Assessment Sale notices free of charge. Orders from the interior promptly filled, by mail or express, as may be desired.

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PYRRHO, the head of a sect called after his name, asserted that there was no differeace betweea life and death. Some person, in ridicule of this position, asked Pyrrho why he did not die, as life and death were the same. "For that very reason," replied he, "because there is no differenco betweea the two states."

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Parties wishing to subscribe or advertise in the MINING AND SCIENTIFIC PRESS can be accommodated by calling upon our Agent, MR. TURNER HAMILTON, at the Assembly Building, 106 South Tenth street, Philadelphia, Pa., where samp copies of our publications can always be found.

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An excellent, strong lad, from the interior, 17 years of age, desires to learn the Blacksmith's trade. His parents wish him to engage with a reputable firm, and learn his business thoroughly. Address, or inquire at the office of the MINING AND SCIENTIFIC PRESS. 2v11tf

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Mining and Scientific Press

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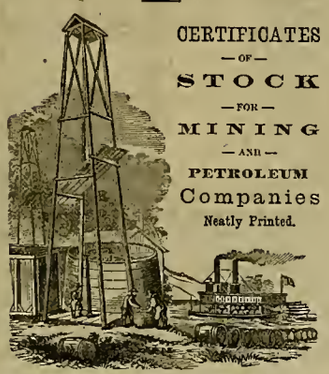

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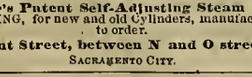

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Of the latest and most approved construction, made from drawings lately made by Prof. Blake at the oil wells in Pennsylvania.
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ALL KINDS OF BRASS AND COMPOSITION CASTINGS AND FINISHING DONE WITH NEATNESS AND DISPATCH.
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We have for sale, at a bargain, a Second-hand Half-Medium (largest size), Ruggles' Engine Job-Printing Press, of most approved pattern. It is in excellent condition, and warranted to work as good as new. Apply soon, at the office of the MINING AND SCIENTIFIC PRESS. 19v11tf

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MANUFACTURE ALL KINDS OF
MACHINERY,
STEAM ENGINES AND QUARTZ MILLS
DUNBAR'S IMPROVED
Self-Adjusting Piston Packing,
Requires no springs or screws; is always steam tight; without excessive friction, and never gets slack or leaky.
WHEELER & RANDALL'S
NEW GRINDER AND AMALGAMATOR,
HEPBURN & PETERSON'S
AMALGAMATOR AND SEPARATOR,
Tyler's Improved Water Wheel,
Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running, giving universal satisfaction.
KNOX'S AMALGAMATORS,
WITH PALMER'S PATENT STEAM CHEST,
Superior for working either Gold or Silver Ores.
Genuine White Iron Stamp Shoes and Dies
Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver. 13v10qy-tf

FULTON
Foundry and Iron Works.
HINCKLEY & CO.,
MANUFACTURERS OF
STEAM ENGINES,
Quartz, Flour and Saw Mills,
Cast Iron Fronts for Buildings, Mining Pumps, Amalgamators, and all kinds of Machinery, Etc.
Nos. 45, 47 and 49 First street, between Market and Mission street, San Francisco. 3-qy

SAN FRANCISCO
Foundry and Machine Works,
N. E. Cor. Fremont and Mission streets,
Manufacturers of
Marine and Stationary Engines!
Quartz Machinery, Saw, Flour and Sugar Mills, Mining Pumps, Hoisting Gear, Agricultural Implements, etc.
—ALSO—
Wine, Cider, Cotton and Tobacco Presses
of the latest Improved Patterns.
Brodie's Improved Patent WINO BLAST SEPARATOR, for Dry Crushing; Salmon's Patent Amalgamator and Separator; Wheeler & Randall's New Grinder and Separator; Baux & Guiod's Amalgamator and Separator; W. W. Tupper's Patent Sectional Grate Bar; Coal Oil Well Boring Machinery complete, on hand.
STEAM ENGINES AND BOILERS,
Of all sizes, constantly on hand; Quartz Mill Shoes and Dies warranted to be made of the best white iron.
MACHINERY, OF ALL DESCRIPTIONS,
Bought, sold, or exchanged. Bolt Cutting and Castings, a the lowest market rates.
6v11-1y **DEVOE, DINSMORE & CO.**

Novelty Iron Works,
Steam Engine, Boiler and Machine Shops.
STEAM ENGINES AND BOILERS, OF ALL KINDS, ON hand and Made to Order. Quartz, Saw and Flour Mills, and all other kinds of Machinery, made to order, bought, sold or exchanged.
Reynolds' Variable Cut-Off Saves from 25 to 60 per cent. of Fuel.
WINANS' ANTI-INCRUSTATION POWDER for Steam Boilers, a *SURE REMEDY*. Send for a Circular.
E. T. STEEN,
105, 107 and 109 Fremont st., cor of Mission
SAN FRANCISCO 21v9tfq

PORTLAND BOILER WORKS.
MOYNIHAN & AITKEN,
BOILER MAKERS AND SHEET IRON WORKERS,
N. B.—All kinds of Boiler and Sheet Iron Work executed at the shortest notice, and on the most reasonable terms.
Mission street, between Beale and Fremont streets, San Francisco. qy29-t

JOHN LOCHHEAD'S
STEAM ENGINE WORKS,
Beale Street, near Mission Street,
SAN FRANCISCO.
Steam Engines of every description built to order—Marine Stationary, or Locomotive.
Hoisting and Pumping Engines,
Portable Engines of all Sizes; Donkey Pumps, Etc
25v9q JOHN LOCHHEAD, Practical Engineer

THE owners of the Macedonian mine, which is located in San Bernardino county, in the neighborhood of Fort Mohave, intend to test its value. Mr. Ensign Bennett and others are *en route* to that region, to make the necessary arrangements. The company is organized in Buffalo, New York. So says the Wilmington *Journal*.

FOXES AND DEERS.—A party started out from Nevada, on a "fox hunt," on the 16th inst. Foxes are said to be abundant there. The party had ten or a dozen of the best hounds which could be obtained in the State. Quite a number of deer have also been seen quite recently in the neighborhood of Nevada, and along the ridge down as low as Penn Valley.

POSTPONEMENTS.—We would again call the attention of Secretaries to a certain point of the mining law, too commonly overlooked, viz: The requirement that all postponements must be added previous to the expiration of the regular publication of assessment or sale notices.

OUR NEW YORK AGENCY.

Mr. GEO. M. NEWTON is our authorized agent in New York City, and will receive advertisements and subscriptions for the MINING AND SCIENTIFIC PRESS at regular rates. Sample copies of our weekly and monthly issues can be procured by calling upon him, at the office of the "STOCKHOLDER," **No. 72 William street.**

What "They Say" of the Mining and Scientific Press.

Prof. J. D. Whitney's address on Mining, is given entire. * * * We preserve the PRESS, and would like to have a full file.—[Napa Reporter.

The public should support the enterprise of the MINING PRESS, one of the best papers in the State, by a liberal patronage, as it is only by a system of legitimate reports that our mines can be favorably brought before men of capital below.—[Calaveras Chronicle.

Under the management of Messrs. Dewey & Co., the PRESS has been much improved in every respect. * * It deserves a liberal support.—[Virginia Union.

A good paper for this country.—[Humboldt Register, Na.

Those who would have a good paper of this character, should subscribe now.—[Marysville Appeal.

It embraces one of the finest fields in the world, and seems to improve it. * * * It will be second to no scientific record now published on this continent.—[Los Angeles News.

A neat and useful journal. One of the most presentable and useful in the State.—[Sunday Mercury.

Such a journal has been needed on the Pacific Coast. The PRESS fills the bill.—[Reese River Reveille.

A splendid paper, and should have a good list of subscribers in prosperous Grass Valley.—[G. V. National.

We receive, regularly as clock work, this exceedingly valuable and interesting journal.—[Napa Reporter.

Interesting and important to miners and Mountain men. [Butte Record.

The publishers intend to make it the "Scientific American" of the Pacific Coast. Every miner should have a copy of it in his cabin, for it will be filled with useful information to the pick and shovel fraternity.—[Trinity Journal.

Should be taken by every man owning "feet" [and brains] in this State.—[Beacon.

In no other ten journals can the reader find the same amount of reliable mining news as in the PRESS.—[Contra Costa Gazette.

Every stockholder in different mines will find it will pay to take and read this mining journal.—[Contra Costa Gazette.

The PRESS is to the Pacific Coast what the "Scientific American" is on the Atlantic. It deserves its success.—[Aurora Daily Times.

It is fully up to the times, and furnishes the latest mining improvements and intelligence.—[Calaveras Chronicle.

Every miner should subscribe for the PRESS.—[Calaveras Chronicle.

It presents a channel through which all mining notices may be cheaply consolidated into one sheet for the convenience of all stockholders.—[Mountain Messenger.

We can give our testimony that it is always replete with useful and valuable information to miners and mechanics. [Placer Herald.

MINERS

Who wish to erect Quartz Mills, Concentrating or Smelting Works, will find it to their interest to consult the under. signed, as to the best and cheapest mode of Reducing Ores. Being acquainted with all the modern improvements of Europe and America, in Mining, Machinery and Metallurgy, I undertake the erection of any kind of Works, and warrant their successful operation.

Gold, Silver and Copper Ores bought in any quantity.

Assay of Ores made by a new Fire Process in half the usual time, and at half price.

Apply to **J. MOSHEIMER,**
23v11qy 423 Washington street, San Francisco.

Book Printing should be considered and treated as one of the higher branches of the "Art of Arts," and its execution entrusted only to experienced and intelligent workmen. Strict attention will be given to all orders for BOOK AND PAMPHLET PRINTING entrusted to the Mining and Scientific Press Job Office.

MINING IN NEW ZEALAND.—The product of the New Zealand west coast gold fields to the 1st of August was 73,000 ounces, worth $1,440,000, and 1,500 ounces more than for the same time in the previous year.

MOSHEIMER'S CONCENTRATOR

RECEIVED THE FIRST PREMIUM

From the ROYAL POLYTECHNIC SOCIETY, in Cornwall, and was highly recommended by the Commissioners as the most Simple and Effective Concentrator for all kinds of Ores.

Every Quartz Mill ought to have them, as they not only save Gold and Silver, but also the Quicksilver and Sulphurets, without extra labor. They can be built entirely of wood at the mine, and will separate more perfectly in one operation, than any other Concentrator in use. Apply to **J. MOSHEIMER,**

23v11qy 423 Washington street.

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Diana Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of December, 1865, an assessment of ten dollars ($10) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, 402 Front street, San Francisco.

Any stock upon which said assessment shall remain unpaid before Saturday, the 20th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 6th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. The said assessment being levied to pay off balances of indebtedness for improvements recently made at the mine. By order of the Board of Trustees.

N. C. FASSETT, Secretary.
Office, 402 Front street, San Francisco. dec23

Hornet Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 21st day of December, 1865, an assessment of one dollar ($1) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, 402 Front street.

Any stock upon which said assessment shall remain unpaid before Saturday, the 20th day of January, 1866, will be advertised as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 6th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.
Office, 402 Front street, San Francisco. dec23

Hanscom Copper Mining Company, Low Divide District, Del Norte county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of December, 1865, an assessment of fifteen cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 20th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 3d day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. L. GETCHELL, Secretary.
Office, No. 19 First street, San Francisco, Cal. dec23

Kentucky Copper Mining Company, Mme Felix District, north of Copperopolis, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 20th day of December, 1865, an assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 21st day of December, 1865, in United States gold and silver coin, to the Secretary, 644 Washington street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 20th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 7th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. A. BAUER, Secretary.
Office, 644 Washington street, San Francisco, Cal. dec23

Union Mattole Oil Company, Humboldt County, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of December, 1865, an assessment of five ($5) dollars per share was levied upon the capital stock of said Company, payable on the 16th day of January, 1866, to the Treasurer of said Company, at his office, 517 Jackson street, San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on the 19th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 6th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale.

C. WINTER, Secretary.
Office, 517 Jackson street. dec23

Yosemite Silver Mining Company, Oro Fino District, Humboldt county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of December, 1865, an assessment of one dollar and a quarter ($1.25) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, 402 Front street, San Francisco, or to J. T. MACLEAN, Superintendent, Star City.

Any stock upon which said assessment shall remain unpaid on Saturday, the 20th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 6th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

S. O. PUTNAM, Secretary.
Office, 402 Front street. dec23

Mining Notices--Continued.

New Mining Advertisements to be found under another heading.

Agawam Gold and Silver Mining Company, Union District, Nye County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of December, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 27th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

G. M. BURNHAM, Secretary.
Office, 436 Jackson street, San Francisco. dec16

Notice.—The Annual Meeting of the stockholders of the AGAWAM GOLD AND SILVER MINING COMPANY, for the election of Trustees, and transaction of such business as may come before them, will be held at the office of the Company, 436 Jackson street, San Francisco, on Saturday, the 13th day of January, 1866, at 12 o'clock M.

dec15 G. M. BURNHAM, Secretary.

Blue Ledge Gold and Silver Quartz Mining Company, Kelsey District, El Dorado County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of December, 1865, an assessment of one dollar and fifty ($1.50) cents per share was levied on each and every share of the capital stock of the Blue Ledge Gold and Silver Quartz Mining Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 27th day of January, 1866, at 12 o'clock M. of that day, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. M. BUFFINGTON, Secretary.
Office, No. 10 Government House, corner of Sansome and Washington streets, San Francisco. dec16

Bunker Hill Quartz Mining Company, Amador County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 27th day of November, 1865, an assessment of five dollars ($5) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 6th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 20th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

WALES L. PALMER, Secretary.
Office, No. 19 First street, San Francisco. dec9

Chicago Gold and Silver Mining Company, Lander county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 25th day of November, 1865, an assessment of two dollars ($2) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, No. 402 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 15th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.
Office, 402 Front street, San Francisco. no25

Goodwin Gold and Silver Mining Company, Simpson Park District, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment (No. 9) levied on the 7th day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Burdick, S A	194	10	$20 00
Chapin, E M	214	5	10 00
Chapin, Mrs E M	61	10	20 00
Christenden, J G	250	10	20 00
Clendennen, Jas B	256	7	14 00
Clendennen, Jas B	257	7	14 00
Dunbar, Mrs A E	116	25	50 00
Dunbar, Mrs A E	117	25	50 00
Litchfield, W D	200	10	20 00
Kretchner, Herman	210	15	30 00
McLachlin, Donald	190	10	20 00
Noyes, Wm M	213	10	20 00
Noyes, Wm M, Agent	262	60	120 00
Noyes, Wm M, Agent	263	679	1358 00
Noyes, Wm M, Agent	264	1000	2000 00
Noyes, Wm M, Agent	265	546	1092 00
Shrader, A J	58	20	40 00
Shrader, A J	59	20	40 00
Shrader, A J	62	20	40 00
Shrader, A J	63	20	40 00
Shrader, A J	64	20	40 00
Shrader, A J	65	20	40 00
Shrader, A J	66	20	40 00
Shrader, A J	67	20	40 00
Shrader, A J	68	20	40 00
Shrader, A J	69	20	40 00
Shrader, A J	70	20	40 00
Shrader, A J	71	11	22 00
Smith, William	236	50	100 00
Smith, William	237	50	100 00

And in accordance with law, and an order of the Board of Trustees, made on the 7th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., at their salesroom, 626 Montgomery street, on the 30th day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

E. V. JOICE, Secretary.
Office, corner Washington and Battery street, San Francisco. dec16

Calendors for 1866.—The MINING AND SCIENTIFIC PRESS JOB PRINTING OFFICE is prepared to execute every manner of Counting-house Calendars and advertisements for various business men, on short notice and moderate terms.

Geo. Washington Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 6th day of November, 1865 the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Allred, W C	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	10-ea 110	$110 00
Adams, O S	414	5	5 00
Ament, H E	not issued	5	5 00
Beard, C M	72	10	10 00
Brown, Themas	126	6	6 00
Brown, Thomas	156	4	4 00
Brown, Mrs. L C	125	5	5 00
Berry, Geo E	50	15	15 00
Booker, W L	212	10	10 00
Botts, John	246	1	1 00
Boggs, Geo W	137	6	6 00
Boggs, A G	57	11	11 00
Bowland, Wm	364	5	5 00
Berry, Harrison	101	25	25 00
Burk, John	51	10	10 00
Bell, Jonathan	38	5	5 00
Bath, Joseph	not issued	12	12 00
Christianson, Phillip	30	1	1 00
Christianson, Phillip	31, 32	10-ea 20	20 00
Christianson, Phillip	35	9	9 00
Carmichel A	395	39	39 00
Cornwell, J F	80, 81, 82, 83	16-ea 40	40 00
Castle, Levi	431, 432	5-ea 10	10 00
Castle, Levi	not issued	5	5 00
Coulter, Samuel	141	10	10 00
Dutton, David	38	9	9 00
Dutton, David	369	15	15 00
Demming, Wm	73	10	10 00
Elgin, W	44	5	5 00
Grigsby, T L	99	10	10 00
Grigsby, A D	100	10	10 00
Grigsby, E D	79	10	10 00
Grigsby, R F	94	10	10 00
Gates, D V	330	5	5 00
Gillam, J	73, 74	10-ea 20	20 00
Gibson, James	39, 40	10-ea 20	20 00
Hargrave, E J	44	5	5 00
Hollingsworth, H	161	5	5 00
Hammett, F W	318	10	10 00
Hastings, D L	not issued	23½	24 00
Kercheval, Sarah A	313	10	10 00
Knight, Thomas	37	4½	5 00
Kelsta, J T	28	5	5 00
Kelsta, J T	29	4	4 00
Kelsta, J T	not issued	5	5 00
Lachman, Louis	53	10	10 00
Linn, Geo	19	10	10 00
Mudgett, John	321, 121	5-ea 10	10 00
Mott, Hiram	139	12 1-6	13 00
Mercer, Mrs Susan	98	10	10 00
Mecklenberg, Joseph	165	5	5 00
Mylett, James	52, 53	10-ea 20	20 00
Mylett, James	54	8	8 00
Miller, John	254	5	5 00
Mason, Charles	211	5	5 00
Ogden, Thomas	408	1	1 00
O'Neal, J	337	5	5 00
Pearson, I N	114, 115, 163, 375, 376	5-ea 25	25 00
Pearson, I N	370	20	20 00
Pearson, I N	370	1	1 00
Pearson, I N	372, 373, 374	10-ea 30	30 00
Pilkington, J B	75, 76	20-ea 40	40 00
Pilkington, J B	77	8	8 00
Rutter, Mary A	244	5	5 00
Robinson, J S S	65	10	10 00
Smittle, John	183	13⅔	14 00
Tanner, O	58	10	10 00
Tanner, O	59	15	15 00
Whitton, C J	76	10	10 00
Whitton, Wm H	332	7	7 00
Wines, C B	120	5	5 00
Wyckoff, J L	18	10	10 00
Whitton, E	95	10	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of Olney & Co., 626 Montgomery street, on the 26th day of December, 1865, at the hour of 2 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

W. D. ROOT, Secretary.
Office, 338 Montgomery street, San Francisco, dec9

Honest Miner Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of December, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, 402 Front street.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 29th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.
Office, 402 Front Street, San Francisco. dec16

Joe Lane Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of December, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, 402 Front street.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 29th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.
Office, 402 Front street, San Francisco. dec16

Jewett Gold and Silver Mining Company, Gold Hill District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of December, 1865, an assessment of one ($1) dollar per share was levied upon the assessable capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Friday, the 5th day of January, 1866, will be advertised on Saturday, the 6th day of January, 1866, as delinquent, and unless payment shall be made before, will be sold on Saturday, the 20th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

G. M. BURNHAM, Secretary Pro tem.
Office, 436 Jackson street (up stairs), San Francisco. dec9

Jefferson Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 2, levied September 25, 1863, of fifty cents; No. 3, December 11, 1863, of fifty cents; No. 4, February 4, 1864, of one dollar, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	No. 2.	No. 3.	No. 4.	Total Amt.
Brown, J S	130	11				$11 00
Brown, J S	140	9				9 00
Cassell, J F	10	10	$5 00	$10 00		15 00
Clarke & Blakeley	44	9¼	4 63	9 25	13 88	
Curtis, S T	95 to 102	10-ea	40 00	80 00	120 00	
Curtis, S T	103	12½	0 25	12 50	18 75	
Clifford, S O	112	12½			12 50	
Clifford, S O	131	25			25 00	
Clark, H	28	25			25 00	
Clark, H	29	25			25 00	
Clark, H	113	11¼			11 50	
Doling, P F	3	20			20 00	
Douzel, A J	5	10			10 00	
Faulkner, G H	41	5			5 00	
Gilbert, Jos	65	20			20 00	
Gilbert, Jos	66	20			20 00	
Gilbert, Jos	67	20			20 00	
Gilbert, Jos	135	6			6 00	
Gilham, W B	133	7			7 00	
Holman, T	40	5			5 00	
Jacobs, N B & Co	42	10			10 00	
Jones, J L	143	15			15 00	
McGahey, Jas	22	6¼	3 12	6 25	9 37	
Pinkerton, Chas	31	9¼	4 62	9 25	13 87	
Seaver, L B	23	10	$5 00	5 00	10 00	20 00
Seaver, L B	24	10	5 00	5 00	10 00	20 00
Seaver, L B	26	10	5 00	5 00	10 00	20 00
Smith, W K	4	20	10 00	10 00	20 00	40 00
Rex, H V	134	12				12 00
Sweetland, J O	129	5				5 00
Woodford, H C	12	20				20 00
Watson, N A	115	10				10 00
Watsou, N A	144	25				25 00
Watson, N A	147	48¾				46 50

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of December, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 8th day of Janurry, 1868, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. dec9

Kimblin Ravine Company, Sierra County, California.

NOTICE.—The Annual Meeting of the stockholders of the above Company, for the election of officers for the ensuing year, will be held on the 18th day of December, A. D. 1865, at 3 o'clock, P. M., at the office of the Company, No. 210 Front street, San Francisco.

dec2 H. NIELSON, Secretary.

The above meeting is hereby adjourned till Tuesday, the 26th day of December, 1865, at the same hour and place.

dec19 H. NIELSON, Secretary.

Keokuk Gold, Silver and Copper Mining Company, Clayton District, Contra Costa County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 15th day of October, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Wm Morris	335	50	$ 5 00
Jas M Bunker	92	25	2 50
E Bent	502	25	2 50
J F Morrow	548, 549	10-ea	20 00
J F Morrow	550, 551	5-ea	10 00
W W Theobalds	9	100	10 00
Chas Jackson	114	25	2 50
Chas Jackson	455	200	20 00
Geo Cotran	135	25	2 50
Geo Cotran	137	50	5 00
Geo Cofran	not issued	95	9 50
Geo F Sharp	425	200	20 00
J G Perkins	525	25	2 50
H H Schafer	398	70	7 00
J N Peterson	543	30	3 00
D O Leary	308	20	2 00
J W Domett	544	5	50
J W Domett	545	5	50
J W Domett	546	5	50
J W Domett	547	5	50

And in accordance with law and an order of the Board of Trustees, made on the 16th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., No. 526 Montgomery street, San Francisco, on the 30th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

A. B. WINEGAR, Secretary.

Office, 308 and 310 Front street, San Francisco. dec16

Lady of the Lake Gold and Silver Mining Company, San Francisco District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 30th day of November, 1865, an assessment of twenty-five (25) cents per share was levied upon the capital stock of said Company, payable on the 1st day of December, 1865, in United States gold and silver coin, to the Secretary, at his office in San Francisco, California.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 15th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary.

Office, Room No. 2 (3d floor), N. E. corner Pine and Montgomery streets.

ENGRAVED TO ORDER.—Persons who desire to illustrate their individual establishments or business, should give us their orders for Engraving and Printing, and we will guarantee good work and reasonable prices.

DEWEY & CO.,

Patent Agents, Publishers and Job Printers, 505 Clay st.

PRINTING FOR THE HOLIDAYS promptly executed in any style to suit tradesmen, at our JOB OFFICE, 505 Clay street.

Leland Gold and Silver Mining Company, San Francisco District, Arizona Territory.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 30th day of November, 1865, an assessment of twenty-five (25) cents per share was levied upon the capital stock of said Company, payable on the 1st day of December, 1865, in United States gold and silver coin, to the Secretary, at his office in San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 15th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

WM. HOLLIS, Secretary,

Office, Room No. 2 (3d floor), N. E. corner Pine and Montgomery streets. dec2

Lady Franklin Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of December, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the 12th day of December, 1865, in United States gold and silver coin, to the Secretary, at his office, 305 Montgomery street, San Francisco, Cal., or to THOMAS PETERS, at the mine at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 6th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 26th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, San Francisco. dec

Madison Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 3, levied on the 27th of November, 1863, of fifty cents per share, and No. 4, levied February 4th, 1864, of one dollar per share, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	No. 3.	No. 4.	Total Am't.
Anderson, E O	12	5	$2 50	$5 00	$7 50
Bryant, A J	99	5	2 50	5 00	7 50
Clifford, S O	51	9	4 50	9 00	13 50
Clifford, S O	53	45			45 00
Clifford, S O	54	5			5 00
Clifford, S O	50	5			5 00
Clifford, S O	57	5			5 00
Clifford, S O	58	5			5 00
Clifford, S O	63	71½			71 50
Clifford, S O	118	14			14 00
Jacobs, N B	75	10	5 00	10 00	15 00
McAllister, P	16	25			25 00
McAllister, P	17	25			25 00
McAllister, P	18	25			25 00
McAllister, P	19	25			25 00
McAllister, P	21	10			10 00
Louis Dionne	130	10			10 00
Morrison, J C Jr	98	5	2 50	5 00	7 50
McHarg, D P	106	10			10 00
Pryor, C M	48	40	20 00	40 00	60 00
Pryor, C M	37	5			5 00
Plummer, B L	83	10			10 00
Spitzer, L A	126	5	2 50	5 00	7 50

And in accordance with law, and an order of the Board of Trustees, made on the 5th day of December, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 8th day of January, 1866, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C FASSETT, Secretary.

Office, 402 Front street, San Francisco. dec9

Nevada Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 14th day of December, 1865, an assessment of one dollar and fifty cents ($1.50) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, 402 Front street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 29th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. dec15

Orleans Quicksilver Mining Company—Location: Lake County, California.

Notice is hereby given, that the Annual Meeting of the stockholders of the Orleans Quicksilver Mining Company, will be held at the office of J. M. Buffington, No. 10 Government House, corner Sansome and Washington streets, San Francisco, on Saturday, December 30th, 1865, at 3 o'clock, P. M., for the election of Trustees, and such other business as may be presented.

CHAS. ROHRLE, President.

San Francisco, Nov. 30, 1865. dec2

Paragon Petroleum Company—Location of Works: Mattole District, Humboldt County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of December, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, No. 206 Jackson street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 6th day of January, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 26th day of January, 1865, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

M. J. McMANUS, Secretary.

Office. No. 206 Jackson street, San Francisco. dec9

Siempre Viva Silver Mining Company, Zaragora District, Sinaloa, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of December, 1865, an assessment of two dollars and fifty cents ($2.50) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, 318 California street, up stairs.

Any stock upon which said assessment shall remain unpaid on Saturday, the 5th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 20th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOHN F. LOUISE, Secretary.

Office, No. 318 California street (up stairs), San Francisco, California dec2

United States Gold and Silver Mining Company.—Mine located in Ravenswood and Santa Fe Districts, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 23d day of November, 1865, an assessment of one dollar and five cents ($1.05) per share was levied upon the capital stock of said company, payable on the 25th day of November, 1865, in United States gold coin, to the Secretary, at his office.

Any stock upon which said assessment shall remain unpaid on Saturday, the 30th day of December, 1865, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 15th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

T. L. BIBBINS, Secretary.

Office, 618 Merchant street, San Francisco, Cal.

Shareholders who have paid the former assessments, or who have advanced money to the Company, will be credited for the same upon this assessment.

dec2 T. L. BIBBINS.

Notice.—The Annual Meeting of the Stockholders of the UNITED STATES MINING COMPANY, will be held at the Office of the Company, on Monday, December 25th, 1865, at 3 o'clock, P. M.

J. M. BUFFINGTON, Secretary.

San Francisco, November 25th, 1865. no25

Wide West Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 11th day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Wm C Allred	173	15	$15 00
Mrs S K Arnold	228	5	5 00
Mrs S K Arnold	229	2½	2 50
Geo E Brush	120	4	4 00
J S Brown	213	10	10 00
Brown & Kent	264	5	5 00
Reuben Bost	162	10	10 00
John Crawford	105	10	10 00
Jacob Cook	207	10	10 00
David Dutton	198	10	10 00
David Dutton	199	10	10 00
David Dutton	200	5	5 00
David Dutton	239	10	10 00
David Dutton	240	10	10 00
Wm Demming	248	10	10 00
T B Grayham	73	5	5 00
John Oilham	245	10	10 00
Emellah Justice	64	5	5 00
A P Lake	121	4	4 00
James Lefferts	255	44	44 00
Dr S A McManes	253	31	31 00
J A McGinsey	30	10	10 00
Alex McLellan	171	5	5 00
Alex McLellan	172	5	5 00
Alex McLellan	211	10	10 00
James Morrison	41	5	5 00
Robert McReynolds	118	10	10 00
Jacob McReynolds	122	2	2 00
Jacob McReynolds	241	5	5 00
J W McAbee	236	10	10 00
J N Pierson	195	10	10 00
J N Pierson	196	10	10 00
J N Pierson	197	5	5 00
J N Pierson	5	5	5 00
A A Prescott	224	10	10 00
T H Rickman	127	5	5 00
T H Rickman	128	10	10 00
T H Rickman	129	8	8 00
Rickman & Sewell	130	5	5 00
Andrew Stephens	106	20	20 00
Andrew Stephens	107	20	20 00
Andrew Stephens	108	20	20 00
Andrew Stephens	186	20	20 00
Ole Simondson	119	5	5 00
Jerome Wade	35	5	5 00
Jerome Wade	36	5	5 00
Jerome Wade	37	5	5 00
Jerome Wade	38	5	5 00
W H White	53	10	10 00
R J Whitton	57	7	7 00
David Wise	45	5	5 00
David Wise	40	5	5 00
W H Whitton	47	20	20 00
W H Whitton	48	20	20 00
W H Whitton	49	5	5 00
W H Whitton	50	5	5 00
W H Whitton	51	5	5 00
W H Whitton	52	5	5 00
M S Whitton	2	5	5 00
E Whitton	52	20	20 00
Mrs N Whitton	63	10	10 00
S C Wolfskill	179	25	25 00
B F White	42	12½	12 50
B F White	not issued	3	3 00

And in accordance with law, and an order of the Board of Trustees, made on the said 11th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of Olney & Co., 626 Montgomery street, San Francisco, on the 30th day of December, 1865, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

JOSEPH GREEN, Secretary.

Office, 330 Davis, corner of Washington street, San Francisco. dec16

Yuba Gold and Silver Mining Company, Brown's Valley, Yuba County, State of California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 15th day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Pierre Berges	35	5	$12 50
John Stock	72, 95	25-ea	125 00
John Stock	275	19	47 50
John Stock	303, 317	5 ea	25 00
Wm Hawley	237	7	17 50
Wm Hawley	328	25	52 50
Mrs S M Hawley	238	3	7 50
Andrew S Bristol	324	5	12 50
D W Ruggles	325	6	12 50
Chas Imbourg	329	5	12 50
T A Hughes	366, 393	10-ea	50 00

And in accordance with law, and an order of the Board of Trustees, made on the 15th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at No. 526 Montgomery street, San Francisco, Cal., on Saturday, the 30th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

P. R. RINGSTROM, Secretary.

Office, 210 Pine street, up-stairs, San Francisco. dec16

Yankee Blade Mining Company, Reese River Mining District, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 5th day of December, 1865, an assessment of fifteen (15) dollars per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 29th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. T. ATWOOD, Secretary.

Office, No. 329 Montgomery street (Stevenson House), San Francisco. dec9

Zenith Gold and Silver Mining Company, Mountain Ranch District, Calaveras County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 6th day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	Amount of Assessm't.	Paid thereon.	Balance Due.
Angler, W R	242	10	$32 50	$12 50	$20 00
Booraem, H T	8	25	81 25	43 75	37 50
Booraem, H T	7	25	81 25	43 75	37 50
Booracm, H T	8	25	81 25	48 75	34 50
Rooraom, H T	9	12	39 00	24 80	14 40
Boornem, H T	10	10	32 50	17 50	15 00
Bell, John P	59	12	39 00	17 40	21 60
Beers, H M	99	10	32 50		32 50
Bernard, Robert	218	10	32 50	25 00	8 50
Burr, A E	222	22	71 50	58 00	13 50
Barnes, W F	245	87	282 75	130 50	152 25
Crowe, C A	27	25	81 25	18 75	62 50
Coulter, James	80	10	32 50	22 50	10 00
Cooper, J H	201	3	9 75	1 35	8 40
Cooper, J H	212	7	22 75	3 15	19 60
Davis, Chas H	200	2	8 50	90	5 50
Franklin, E	1	25	81 25	6 25	75 00
Franklin, E	2	25	81 25	8 25	75 00
Franklin, E	3	25	81 25	18 75	62 50
Franklin, E	4	12	39 00	29 00	10 00
Fox, J W	93	8	26 00	14 00	12 00
Fuller, Geo W	204	6	19 50	1 50	18 00
Fuller, Geo W	205	6	19 50	1 50	18 00
Fulton, J M	217	5	18 25	11 25	5 00
Graham, Edw	235	2	8 50	1 00	5 50
Hent, R W	32	25	81 25	8 25	75 00
Hent. R W	33	25	81 25	5 25	75 00
Holzheimer, H	38	25	81 25	39 75	41 50
Holzheimer, H	39	12	39 00	19 80	19 40
Holzheimer, H	40	10	32 50	15 50	17 00
Harris, Alf	133	12	39 00		39 00
Harris, Alf	159	12	39 00		39 00
Harley, C	140	23	74 75	8 40	66 35
Hinds, John F	148	10	32 50	22 50	10 00
Hinds, John F	194	15	48 75	30 50	18 25
Hall, J H	158	10	32 50	25 50	7 00
Hewitt, Agnes	195	5	16 25	11 50	4 75
Hall, Mary G	208	5	18 25	11 25	5 00
Hamilton, H M	210	62	201 50		201 50
Hamilton, H M	215	20	65 00	5 00	50 00
Hunt, J A	226	10	32 50	26 00	6 50
Johnson, Geo H	25	10	32 50	15 00	17 50
Jonnson, A P	224	5	16 25	11 25	5 00
Johuson, Eben	239	10	32 50	22 50	10 00
Joncs, Wm C	115	5	16 25		16 25
Knapp, W H	91	12	39 00	33 00	6 00
Lyon, W S	105	5	18 25	3 75	12 50
Lyon, W S	186	5	16 25	12 75	3 50
Lyon, W S	187	7	22 75	16 50	6 25
Lewis, L L	114	10	32 50	2 50	30 00
Lewis, L L	207	14	45 50	3 50	42 00
Longfellow, E N	183	10	32 50	2 50	30 00
Lentz, Wm H	199	2	6 50	3 00	3 50
Lentz, Wm H	225	3	9 75	6 85	2 90
Moon, Geo C	13	25	81 25	20 25	61 00
Maxon, W B	139	12	39 00	2 40	36 50
McKee, D R	158	13	42 25	29 90	12 35
McKee, D R	159	10	32 50	30 50	2 00
Mann, John	189	20	65 00	6 00	59 00
Mitchell, F S	223	55	178 75	3 75	175 00
Mitchell, F S	237	25	81 25	11 25	70 00
Norton, Samuel	143	10	32 50	25 50	7 00
Nourse, E F	244	20	65 00	35 00	30 00
Osborne, W F	51	25	81 25	18 75	62 50
Osborne, F F	53	25	81 25	18 75	62 50
Partridge, H C	124	10	32 50	24 00	8 50
Perkins, J G	128	5	16 25	1 25	15 00
Perkins, J G	135	5	16 25	1 25	15 00
Perkins, J G	147	10	32 50	21 00	11 50
Perkins, J G	149	10	32 50	2 50	30 00
Potter, John	241	10	32 50	12 50	20 00
Reed, J G	16	25	81 25	56 25	25 00
Reed, J G	17	25	81 25	55 25	25 00
Reed, J G	18	25	81 25	56 25	25 00
Reed, J G	19	12	39 00	27 00	12 00
Reynolds, H D	112	2	6 50		6 50
Reed, Gilman	152	5	16 25	1 25	15 00
Regensberger, H	228	10	32 50	22 50	10 00
Regensberger, H	229	5	16 25	13 25	3 00
Regensberger, H	230	10	32 50	20 50	12 00
Regensberger, H	231	15	48 75	35 75	13 00
Regensberger, H	232	50	162 50	120 00	42 50
Regensberger, H	233	2	6 50	5 50	1 00
Stratton, E N	130	5	16 25	1 25	15 00
Thompson, John	145	5	16 25	4 25	12 00
Torning, A	190	10	32 50	16 50	16 00
Tomlinson, C A	198	5	16 25	12 25	4 00
Tomlinson, C A	220	10	32 50	26 00	6 50
Taylor, C M	221	10	32 50	27 00	5 50
Tilden, A F	243	30	97 50	40 50	57 00
Vizina, J M	227	10	32 50	26 00	6 50
Wyatt, W	96	5	16 25	1 25	15 00
Wilmot, W	97	5	16 25	1 25	15 00
Wilmot, W	174	10	32 50		32 50
Waters, Saml J	121	20	65 00	54 50	10 50
Waters, Saml J	156	12	39 00	33 00	5 00
Wrede, D	142	5	16 25	10 25	6 00
Wilson, C	151	5	16 25	1 25	15 00
Wood, Charles	196	5	16 25	11 25	5 00
Wilzinski, Saml	214	5	16 25	13 75	2 50
Winter, Sarah	240	5	16 25	13 75	2 50

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at auction, by Olney & Co., at the office of the Company, No. 7 Stevenson Block, San Francisco, Cal., on the 23d day of December, 1865, at 12 o'clock M., of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

M. G. ELMORE, Secretary.

Office, No. 7 Stevenson Block, corner Montgomery and California streets, San Francisco. dec9

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can send all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. New advertisements should be sent in as early as possible.

SELLING THE HERMITAGE.—A bill has been introduced in the Tennessee Legislature to sell all the Hermitage ground, now belonging to the State, except two acres around the grave of the immortal Jackson.

GENERAL GRANT'S RANK.—Generals Washington and Grant are the only two full Lieutenant-Generals the country ever had—General Scott only holding the title by brevet.

FEMALE NOTABLES.—The widows of Daniel Webster and John J. Crittenden are now both residents of New York city. Mrs. Crittenden has recently removed from Kentucky, and is living on Lexington avenue, in the enjoyment of very good health.

SOME one has said of those who die young, that they are like the lambs whom Alpine shepherds bear in their arms to higher greener pastures, that the flocks may follow.

MEN often attempt, by the light of reason, to discover the mysteries of eternity. They might as well hold up a candle to see the stars.

Economy in Advertising.—The MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Deserved Testimonial.

GRIZZLY FLAT, Oct. 18, 1865.

MESSRS. HUNGERFORD & HENDY—*Gentlemen:* We have run your Concentrator for several days past, in our 5-stamp Mill, and, as far as can be ascertained at present, it is a perfect success. When running at the rate of from two hundred and ten to two hundred and twenty-five revolutions per minute, we have lost neither quicksilver nor sulphurets. Formerly, when using copperplate riffles and blankets, we found that in spite of the utmost precaution, quicksilver would escape over them all. Wishing you all success, we remain Your obedient servants,

E. A. BIGLER.
S. F. DAVIS.

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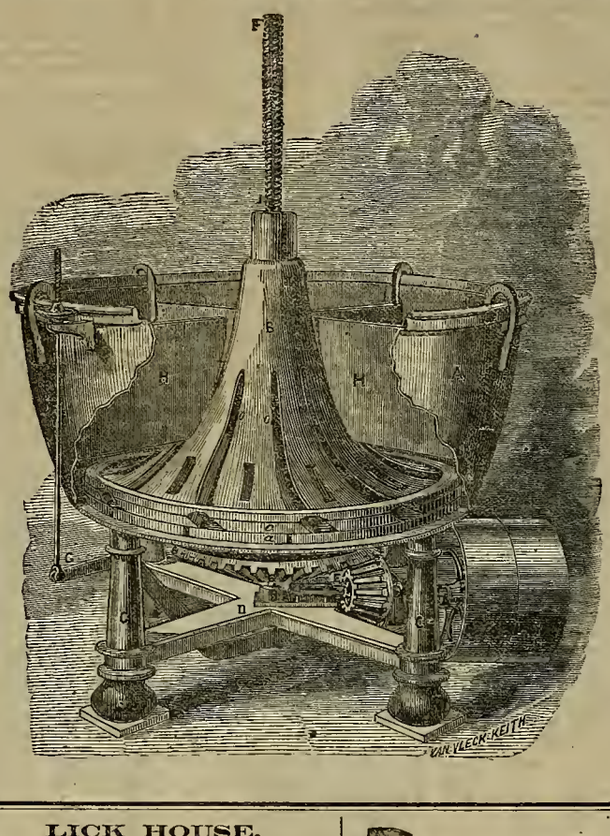

THE EXCELSIOR GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed*, are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

MANUFACTURED AT THE

Union Iron Works and Golden State Iron Works,

WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.

QUARTZ OPERATOR'S HAND BOOK.

A Book for Every Intelligent Prospector, Shareholder, Miner and Machinist.

ZENAS WHEELER AND P. M. RANDALL,

Authors and Publishers.

BOUND IN CLOTH—144 PAGES, DUODECIMO.

THE QUARTZ OPERATOR'S HAND BOOK is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

The work also contains an original and highly interesting discussion of the tractory and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs. W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Belshaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on page 415 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865.

Sold by booksellers generally. Price by mail, postage paid, $1.25. Address "Wheeler & Randall, at the Mining and Scientific Press Office, San Francisco." 2v11

HENDY'S IMPROVED BLOW-PIPE.

This Convenient Helpmeet

—TO THE—

ASSAYER, CHEMIST, DENTIST, JEWELLER, PROSPECTOR AND MILLMAN,

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Office of the Mining and Scientific Press.

This article was more fully mentioned in the PRESS of April 15th, 1865. Since that time, however, Mr. Hendy has made a further improvement by attaching a rubber hose between the mouth-piece and the pipe, enabling the blower to change his position without disturbing the direction or constant accuracy of the current on the object upon which it is turned. The main portion of the blow-pipe is made with a joint, at which a valve is placed, which is opened when the operator blows and closed immediately when he ceases. By this arrangement the little bag or bladder is readily filled at a single breath, and with very little exertion. When so filled, a continuous current of air is forced from the nozzle of the pipe by the mere contractive force of the gutta percha. This force is uniform until the air is very nearly exhausted. The current may be easily varied or entirely cut off by gently pressing the fingers upon the neck of the bladder above the nipple to which it is attached.

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Hoisting Ropes for Deep Shafts,

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ASSAY AND BULLION BALANCES,

And from France and Germany, as well as the Eastern States, FURNACES, CRUCIBLES, MUFFLES, BLOW-PIPE CASES, GOLD SCALES, CHEMICAL GLASSWARE, and every article required for ASSAY OFFICES, LABORATORIES, etc. We have given this branch of our business particular attention, to select such articles as are necessary in the development of the mineral wealth of this coast.

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San Francisco, March 6, 1865. 11v10-tf

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For Well Boring and Erecting all kinds of Machinery connected therewith.

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Now on Hand.

I am also in constant receipt of

LEHIGH COAL,

And will be able to supply it always

At the Lowest Market Price.

JAMES R. DOYLE,

20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

PAPER PRICES.—As an instance of the cumulative operation of paper prices, we may mention the late riots in the coal mines of Pennsylvania. The wages of the miners rose with the price of gold, until they got seven dollars per day. With the fall in gold it became necessary to reduce the wages. Seven dollars a day had been paid laborers in the mines, and now, in view of the stringency of the market, it was proposed to reduce the rate to six dollars. The result was a bloody riot. Finally, the military had to be called out to put a stop to the disturbances, and at last accounts it was thought that the danger was over.

THE Amador *Dispatch* says that county bids fair to become, at no distant day, one of the greatest wine-producing districts in the State

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Niantic Hotel (being one block south of our forme location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

Oakland Water-Cure.

APRIL 1ST, 1864, WE OPENED A HYGIENIC BOARDING House and Ladies' Health Institute in Oakland. The great advantage we have experienced since that time, in the treatment and cure of all those diseases peculiar to females, as well as those common to all, over that of San Francisco, induced us to give up the treatment of gentlemen in the city. We have accordingly removed our entire Bathing, Electro-magnetic, and Gymnastic Apparatus, which we used especially in the treatment of males, to our Health Institute across the Bay, and have found, after a trial of seven months, that gentlemen as well as lady patients recover, at our Fountain Farm Cure, one-third faster than in the city of San Francisco. The climate here is the most even and bracing to be found in the State. The grounds command a view unsurpassed in the world. The Institution is furnished with an abundance of pure, soft water, from numerous springs; and we now offer to Ministers, Teachers, Lawyers, Miners, Merchants, Mechanics, Farmers, and all other worthy persons, who desire to try the advantage of the only *rational* system of medicine, the hospitalities of our Hygienic Home and Cure. Young men who have become debilitated or lost their health by excessive toil, exposure, or enervating habits, contracted through ignorance of Physical Laws, may with us find more of the encouragements they need, and means that will restore them to health, than elsewhere in California.

We claim for Water-Cure and Hygienic Medication superior advantages over all systems of drug medication in the cure of all disorders, whether acute or chronic; that it is followed by none of those debilitating diseases, such as Piles, Chronic Diarrhœa, Torpid Liver, Constipation, intense Nervousness, Neuralgia, etc., nor those terrible Secondary Diseases, known as Varicose Swelling of the Veins, Necrosis, or Decaying of the Bones, Ulceration of the Limbs, Mercurial Rheumatism, Urethal Strictures, etc., which we well know result from the free use of mercury and other metallic drugs, together with stimulants and vegetable poisons given to overcome acute diseases.

The **Oakland Water-Cure and Eye Infirmary** is by far the most complete in its facilities for the cure of all diseases commonly treated in all Eastern Water Cures of any like establishment on this coast, and the only one in California conducted according to the Theory and Practice of the New York Hydropathic College. We use all forms of Warm and Cold Wet Sheet Packs, the Electro-Chemical Bath, Steam Baths, Improved Sitz Baths, Douch Baths, a Patent Spray Bath, and Magic Baths. The last named was instituted by Dr. Smith with special reference to the cure of those diseases peculiar to miners, namely: Rheumatism, Inflammatory or Chronic, Stiff Joints, Paralysis, Mercurial, Lead, and Oak Poisonings. It is a sure cure for Ague and Fever. It aids more than any other Bath we have yet used in eradicating all kinds of drugs and infectious poisons, and in the cure of all disorders induced by exposure to dampness and water, foul air, absence of light and electricity, retorting metals, the malaria of rivers and low marshy grounds. Where there was a fair constitution left, even when drugs had been applied for months and years without a cure, we have, in the past seven years, treated successfully the following diseases: Chronic, Inflammatory and Mercurial Rheumatism; Paralysis; Lung, Bronchial and Catarrhal Affections; Diseases of the Heart, Kidneys, Liver; Dyspepsia, Constipation, Erysipelas, Scrofula, Piles, Inflammation of the Bowels, Chronic and Acute Diarrhœa, and all diseases and weaknesses peculiar to male and females. No physician in California is so favorably situated to furnish so many home comforts and hygienic conditions that are indispensable to the speedy recovery of nervous and chronic invalids. We have the only truly healthful boarding place in the State for men, women and children, with plenty of saddle and carriage horses for the use of patients and boarders.

To that class of Diseases and Weaknesses peculiar to females, and the medication that Hydropathic or Hygienic physicians employ in their cure, do we invite the special attention of patients and their friends. The ease and rapidity with which females suffering from general or special debility, recover in the bracing climate of the Bay, under Hygienic Medication, together with the universal success that has attended the treatment of females at Dr. Smith's Institutions, (both in Sacramento and San Francisco) has induced us to make this class of human afflictions a specialty of our Institution. We have treated (mostly in the cure), over 300 females, several of whom had been "bedridden" for months and years, and have been decidedly benefited, and with but few exceptions, returned to their homes in from two to six weeks, so far recovered as no longer to need a physician. We have never yet learned of a single instance of a relapse into their former condition.

There is one female in twenty that has been suffering from nervous debility or diseases peculiar to her sex, that cannot be permanently cured by spending from four to six weeks at our Cure, and at the mere cost of $100. This statement we make in confidence, from an experience of the last seven years. From the many who have been treated at our Cure, we have yet to learn of a single regret from husband or wife of the time or means they have expended in Hygienic Medication.

NEW YORK, Aug. 1, 1853.

To all whom it may concern:

This certifies, that Dr. Barlow J. Smith is a graduate of the New York Hygieo-Therapeutic College, which College has a regular Charter from the Legislature of the State of New York, and is authorized to grant Diplomas, conferring on its students all and the same privileges and immunities in relation to the practice of the Healing Art, that are conferred by the Diplomas of any Allopathic or other Medical College in the country.

Dr. Smith has also devoted much attention to Phrenology, especially in its connection with Physiology and Pathology, a portion of the time under the instruction of Fowler & Wells, of this city, and has labored successfully as a teacher and lecturer on these subjects.

R. T. TRALL,
Principal New York Hygieo-Therapeutic College.

To all whom it may concern:

I have known Dr Barlow J. Smith, both in our office as a Student, and a practical Phrenologist in the country, and from what I know of him I can cheerfully recommend him as an honest, faithful delineator of character, and as such can cheerfully recommend him to the public.

For the good of Science.
L. N. FOWLER, 308 Broadway, N. Y.

Dr. Smith spends a part of each day in San Francisco, attending to family practice and to Phrenological and Physiological examinations at his office, Room 13 Armory Hall, up stairs, corner Montgomery and Sacramento streets. Office hours from 11 A. M. to 2 P. M. Circulars sent on application. Address,

BARLOW J. SMITH, M. D.,
20v11tf San Francisco, Box 473.

Machinery.

HUNTER'S
PREMIUM
CONCENTRATOR, AMALGAMATOR
AND
SEPARATOR,

Awarded a Silver Medal at the late Mechanics' Fair.

HUNTER'S CONCENTRATOR CAN BE SEEN IN OPERation daily at the Novelty Iron Works, Fremont street. Parties wishing to purchase Concentrators will find it to their advantage to examine the above machine before purchasing elsewhere, for the following reasons:

1st. It will work the sands from a 5-stamp battery, and save from 10 to 20 per cent. more sulphurets than any machine built on the Pacific coast.

2d. The Sulphurets are washed clean, containing less than ten per cent. of sand.

3d. The waste free gold and amalgam is amalgamated on the copper plates; no trace of ground mercury and scarcely a trace of metal passes off with the sand.

4th. Its simplicity is a sufficient recommendation for its general use as a Concentrator. The variation of speed in a Quartz Mill does not effect the working of the Machine. The same was demonstrated at the late Mechanics' Fair, when with the greatest IRREGULARITY OF SPEED the best of results were given.

5th. There is no clogging or stopping to clean out the sulphurets and sand; consequently no waste from any inattention on the part of the attendant.

6th. In exhibiting the working of the machine (it is not run empty), all classes of ores and tailings, from 50 pounds and upwards, are concentrated that parties may see fit to test the machine with.

Give it a trial, and satisfaction is guaranteed. All orders and any information required, address,

ANDREW HUNTER,
Novelty Iron Works, Fremont st., San Francisco,
15v11-3m Or to E. T. STEEN, Agent.

BAUX & GUIOD'S
Separator & Amalgamator

Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; Its small cost; Its portability; The large quantity of pulp it can operate upon in a given time; It may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jeffersonian Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada City; Crall's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works and San Francisco Foundry, San Francisco, and at Heugh & Thoiu's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,
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BLAKE'S
QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

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WASHOE,
ENGLAND, FRANCE,
— AND —
THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

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Box 2077 San Francisco Post Office.

CHAS. T. BLAKE, Idaho City. E. TYLER, Michigan Bluff. WM. P. BLAKE, San Francisco.
4v10

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant St. bet. 3d and 4th.

(Illustrated in the Mining and Scientific Press, April 9th, 864.) HEPBURN & PETERSON.
nov8 3m*

HUNT'S PATENT
Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

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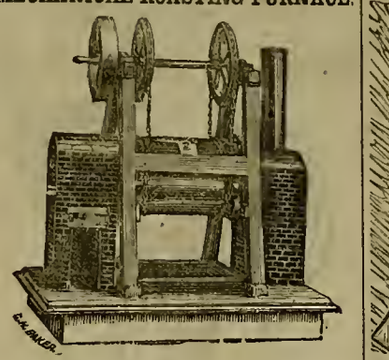
PREMIUM SILVER MEDAL
TO BRUCKNER'S
MECHANICAL ROASTING FURNACE.



Parties wishing to erect such Furnaces, are requested to leave their orders with

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IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN
HORSE POWER
For Sawing Wood.
ALSO, THE
Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

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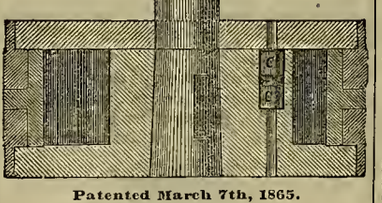
DENIS WHELAN,
Fashionable Boot Maker

REPAIRING NEATLY DONE, AT SHORT NOTICE.

No. 17 Fourth Street,
Near Market street, San Francisco.
15v10-1m*

Stevens' Pressure Packing.



Patented March 7th, 1865.

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

STEVENS' PACKING has the advantage of being cheaper in first cost than the ordinary packing, and can be applied to old style pistons with very little alteration or detention. In place of testimonials, the Patentee requests of those who are using the old spring packing to inquire of the owners of the various engines which now have this packing in use—some of which have been running from three to twelve months without being opened, or showing any descriptive leak—and act upon their recommendation.

Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Alameda Railroad, or at the VULCAN IRON WORKS, where they can be seen, at any time, in course of construction.

10df **ANDREW STEVENS.**

SALMON'S
PROPELLOR AMALGAMATOR
— AND —
Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

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CUMULATIVE POWER PRESS
AND
ARROW TIE.

E. C McCOMB, Agent.
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23v10 3m

STOW'S
PATENT CHAMBER DRILL.

The greatest Labor-saving Machine ever invented for Quartz Mining. By using the Drill in shafts, tunnels, and all other rock blasting, three-fourths of the labor and over one-half of the powder will be saved. The Drill makes a chamber directly at the bottom of the hole, at any depth you wish, six times the area of the original hole. In all kinds of rock, in less time than a man can drill a 1¾ hole two inches deep. Requiring no tamping, it will be impossible to have a premature blast.

AT THE STATE FAIR held in Sacramento, September, 1865, a Committee, after examining both the Linscott's and Stow's Chamber Drills, reported as follows:

We, the undersigned, Committee on Mining Tools, do award to Henry M. Stow, of San Francisco, the FIRST PREMIUM for the best Chamber Drill for blasting rock, for the following reasons:

1st. For simplicity of construction.
2d. For durability of drill.
3d. For strength of drill.

The above Drills will be sent to any part of the State for $30, with one set of Cutters or Chisels that will chamber from 75 to 150 holes. Extra Chisels furnished at $2 50 per set.

The Drill may be seen at Mr. BUFFINGTON'S Office, No. Government Block, corner Sansome and Washington streets, and at No. 511 Market street.

Drills will be delivered to any part of this State free of expense to the purchaser. Any information desired, or orders for Drills, address

STOW & COLLINS,
San Francisco

Oil Wells! Oil Wells!!

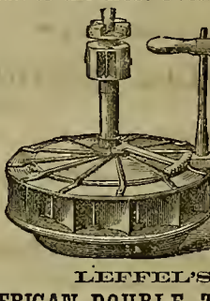
I received at the last STATE FAIR a special Premium for the best Expanding Drill for boring oil wells. The above Drill will bore the hole from ¾ inch to 2 inches larger than the inside of the pipe or tubing of the well, if desired, making the bore perfectly straight and round. The Drills can be attached to and work with any common drill at an expense of from $25 to $50. I will furnish all machinery for boring, or will take contracts for boring wells, and furnish steam engines and all tools required. Address,

HENRY M. STOW,
14v11 San Francisco.

WATER WHEELS!

Equal to the Best Overshot Whee

POWER PLEDGED



IN EXISTENCE.

LEFFEL'S
AMERICAN DOUBLE TURBINE

Is now manufactured by the Vulcan Iron Works Company, in this city, and orders for the same can be filled immediately. We have a large supply of the different sizes, from 10 inches to 30½. That we may know the proper sized Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 100 to 300 pounds, will yield from 10 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

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A Nice Thing.—The Mariposa *Gazette* says that Mr. Moore, of Idaho City, formerly of Mariposa, has disposed of a portion of his interest in a quartz vein in that Territory for the nice little sum of $800,000. The "interest" spoken of we suppose to be a half interest in the famous "Morning Star Ledge."

Oil Refinery in Los Angeles County.—The citizens of Los Angeles, according to the *News*, are now burning oil from the refinery of the Philadelphia Oil Company, on the Camulas Rancho. The Company is prepared to furnish from their well and refinery all that may be needed to supply the demand.

Hanscom Copper Mine.—The owners of this mine seem determined to improve the fine prospects they have, for developing, in Del Norte county, one of the richest copper lodes on this coast. A new election of officers has taken place, which will be reported in our list in the first issue of next month.

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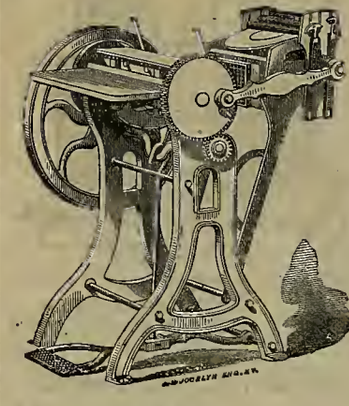

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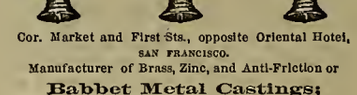

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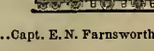

December 30—GOLDEN AGE.....Capt. E. N. Farnsworth.
January 10th—CONSTITUTION.....— —

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DEWEY & CO., PUBLISHERS And Patent Solicitors. | SAN FRANCISCO, SATURDAY, DECEMBER 30, 1865. | VOLUME XI Number 26.

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The Time to Subscribe.

With the new year we commence a NEW VOLUME of the MINING AND SCIENTIFIC PRESS. Patrons, whose subscriptions expire with the present number, will receive notice accordingly. We would herewith solicit all old subscribers to renew their orders for the PRESS, resting assured that such a practical appreciation of our enterprise is the most substantial aid which can be rendered in the support of a valuable journal.

INDEX TO VOLUME XI.—We give to-day, with the closing number of the year, a carefully prepared index of Volume XI. This index, it will be noticed, covers our issues for six months only. By a careful examination of this and the previous index, issued on the 1st of July last—the two comprise about nine closely printed columns of fine type—the reader will be enabled to form some idea of the large amount of valuable reading matter which is confined in a single year's publication of the MINING AND SCIENTIFIC PRESS, all of which is furnished for the small sum of five dollars.

ANOTHER MILL FOR OWEN'S RIVER.—Mr. Whigham, who returned from New York on the steamer of the 15th instant, will ship a twenty-stamp mill by the Los Angeles steamer on Wednesday next, for the Chrysopolis mines, Inyo District, on Owen's river. The company is known as the Oro Fino Gold and Silver Mining Company of New York. The mines of this company are four in number—the Chrysopolis, Knickerhoeker, Mammoth and Oro Fino—which have recently been purchased by the Chrysopolis Gold and Silver Mining Company and the Owen's River Mill and Mining Company, through the agency of Mr. Whigham. The mill goes out to Los Angeles by steamer; wagons will be purchased in this city and taken down to Los Angeles, where cattle will be procured and the freight taken thence direct to the mines. Mr. W. will accompany his teams, with the view of expediting the freight as much as possible. He hopes to have the mill running within ninety days from the time of leaving this city. His millwrights left on Thursday, and will proceed overland *via* Visalia. This will be the third mill constructed in that immediate neighborhood. It is directly across the valley from the famous Kearsarge mines.

LATEST FROM AUSTRALIA.—By the brig Miss Kilmansigg, we have Australian dates to Oct. 3d. The gold yield in many districts had increased very perceptibly. The quantity imported by the Sydney Branch Mint for the week ending September 29th, 1865, was 3,809 ounces.

Experiments with Sodium Amalgam in England.

EDITORS OF MINING AND SCIENTIFIC PRESS. I am continually receiving letters from the interior, asking questions as to whether sodium is a benefit to amalgamation or not. My answers are always that it is. It is not in my habit to ridicule people for giving their experiments to the public through the press, no matter how insignificant they are; but I suppose every one knows that in so important a question as the use of sodium in amalgamating gold and silver, we cannot take, as a conclusion, an experiment made with a porcelain dish and iron nail. I let every one judge for himself, and only give you my experience, and that which has been directly communicated to me from others.

Mr. T. A. Readwin wrote to me, about eight months ago, that he is making experiments in North Wales, England, with sodium amalgam. He informs me that he uses small iron pans and my amalgamators; an equal number of pans being worked with and without sodium. The result has been that at least 30 per cent. more gold was produced with sodium than without its use. He has promised to give me further results of his experiments as they transpire, which in due time, Messrs. Editors, I will transmit to you.

About five months ago, I received several lots of ore to work; and I determined to give sodium a fair test. I worked the same ore, side by side, with the same machinery, and the results were as follows; First lot of 500 lbs, each pan with sodium, yielded 85 per cent. of the assay, without sodium the yield was only 55 per cent. Second lot, different ore, with sodium, 80 per cent.; without sodium 60. Third lot, different ore, with sodium, 78 per cent.; without sodium, 65.

I made many more trials, and found that I got from 5 to 25 per cent. more by using sodium than I could obtain without its aid. I noticed a very great difference, however, in the different kinds of ores which I worked. For certain classes of ores I believe sodium to be of great benefit; less for others. A fair trial, on a larger scale, would soon settle the question; and I hope that some of your correspondents will give the sodium a fair test.

J. MOSHEIMER.

NEW MAP OF NEVADA.—We have received from Warren Holt, publisher, 305 Montgomery street, a new map of the State of Nevada, which in fullness of details, and perfection of topography, as we are informed by those who are intimately acquainted with the geography of that region, is quite superior to anything heretofore issued. The boundaries of the several counties, location of mining districts, principal towns, passes, roads and trails, the sinks, sloughs and springs, alkali flats, deserts and salt beds, and innumerable other singular objects and localities wherewith that strange country abounds, are all put down with as much accuracy as the imperfect knowledge of those distant and desert regions, and the rapidly multiplying mining districts will admit of. This map will be found extremely useful to all interested in mining operations in the State of Nevada.

THE OWEN'S RIVER CANAL.—Mr. Whigham, who went East some months since to dispose of certain mining properties in the Owen's river region, and among others the well-known Owen's River Canal project, which is intended to furnish the water power with which to develop that country, has fully succeeded in the object of his mission. The sale of certain mines, and the measures now in progress for their development, are elsewhere alluded to. With regard to the Owen's River Canal, we understand that Mr. Whigham has secured the organization of a company in New York, which will receive the old stock and issue new—a certain portion of which last will be re-issued to the original stockholders. The new company will furnish a working capital of $150,000. Operations will be commenced by them as soon as the necessary preliminaries can be effected. The work will be completed in sections—the first of which, ten miles in length, from San Carlos to the Eclipse lode, will probably be completed inside of a year from this date. The early completion of this important work is earnestly desired by a great number of miners and farmers, who have located claims along the line of its wake, but which cannot be made of much value until the canal is in operation. The canal itself can scarcely fail of proving a profitable investment to those who have undertaken its construction.

BULLION FROM EL DORADO CANON.—The first important arrival of bullion from the mines of El Dorado Cañon, on the Colorado river, was received by Wells, Fargo & Co., yesterday by the Orizaba, which arrived on Thursday evening. The amount is within a fraction of $20,000, and was taken out by the Colorado mill, from ore taken from the Queen City and the Techatticup mines. The per ton yield of the ore, from both mines, exceeded the anticipation of all parties interested; and as a consequence, the holders in all the other mines of that district are in high spirits at the result. The announcement on the street yesterday of this important arrival, created quite an interest among holders of Colorado stock generally; and we presume the shareholders, who have heretofore been somewhat neglectful of such stock, will look closer in future after their interests in that quarter. Those who do not, may look out for a lively time with the jumpers.

A MINER'S GRAVE.—We visited "Lone Mountain," a few days since, and while rambling among the beautiful sepulchres, our eye was arrested by a small, unpretending monument, erected to the memory of a young man who died in Humboldt county, Nevada. It was of white marble, the top of which was decorated by several neatly arranged mineral specimens. Although the words chiseled upon the marble were few, yet those "specimens," indicative of the miner's search and toil, seemed to convey a language, and we thought them peculiarly appropriate. How many young men who left their distant homes full of golden visions, have done their last work in this promised land. What to them is all the mineral wealth of this new world? They need but the heritage of a grave.

ANCIENT GOLD DIGGINGS AT THE FOOT OF THE ALPS.—From a passage in Strabo (Book iv., ch. 6), it would appear that Imperial Rome was once pretty well inundated with a glut of gold, from the mountains of Northern Italy. The passage referred to, translated into English, reads as follows:

Polybius says that in his time the gold mines were so rich about Aquileia [situated near the southern foot of the Alps.] but especially in the country of the *Taurisci Norici*, that if you dug but two feet below the surface, you found gold, and that the diggings (generally) were not more than fifteen feet deep; that in some instances the gold was found pure, in lumps the size of a bean or a lupin, and which lost only one-eighth in smelting; in others, it required more smelting, but was very profitable. Italians aiding the barbarians in the working for two months, *gold became forthwith one-third cheaper over all Italy*; and the Taurisci discovering this, drove the Italians away, and monopolized it themselves. At present all gold mines belong to the Romans.

The fact, as stated by Polybius, that two months working increased the gold over all Italy so much as to cause it to fall in value *one-third*, would imply a very rich placer. It also appears that the "barbarian" portion of the country where it was found were somewhat selfish, and refused to allow their neighbors, the Italians, to join with them in digging for it. It would, moreover, appear from the above, that the finding of rich gold mines in the great Alpine tunnel is by no means a thing altogether improbable; as these ancient gold fields must have been very near where the southern terminus of the tunnel debouches from the mountains.

PRECIOUS STONES AT MARTINEZ.—Dr. E. F. Hough, of Martinez, placed before us, yesterday, several precious stones, a few from great numbers of equally valuable ores which have recently been found on the bank of the Sacramento river just above the wharf at Martinez. Among these stones we noticed a large and really beautiful moss agate, apparently equal in delicacy and beauty to the famous Oriental stones of this description, which are so highly prized in Europe. This stone is valued at a very high figure. The most remarkable specimen of this variety is now included among the crown jewels of France, and is valued at about one million of dollars. We also noticed an elegant fortification agate; a jasper agate of variegated colors; a moss agate containing small particles of some kind of metal; also a specimen of cacholong, a variety of opal. We shall allude further to the occurrence of these stones at Martinez, their character, etc., in a future number.

THE GOLDEN AGE.—The fine steamer Golden Age, of the P. M. S. S. Company's line, having lately undergone a thorough re-fitting, and supplied with new boilers, will leave the company's wharf, on Folsom street, to-day, taking passengers and freight for New York. Upwards of $150,000 have been laid out upon her since she has been at Benicia, and she is said to be now in as good or better condition than when she first arrived in San Francisco.

A NUGGET of gold worth fifty dollars was lately found near Red Dog, by a man who had been in the State only three weeks.

Communications.

In this Department we invite the free discussion of all proper subjects—correspondents alone being responsible for the ideas and theories they advance.

[Written for the Mining and Scientific Press.]

THE AGE OF GOLD-BEARING ROCKS.

BY PROFESSOR ROWLANDSON, F. G. S. L.

NO. VIII.

In the last published part of this series, which appeared in the number of the Mining and Scientific Press of the 5th August last, I mentioned the fact, on the authority of Mr. Horace Mann, that Miss Errington had discovered some belemnites near Bear Valley, in close proximity to the Pine Tree lead, at Mount Bullion, on the Mariposa grant. In a few days after the date referred to, I had some conversation with Professor W. P. Blake, at the office of this paper, in reference thereto, during which Professor B. informed me that he had collected some fossils at the place named, and had introduced them, accompanied with a brief notice, to the attention of the California Academy of Sciences in the fall of 1864, and published in their proceedings* under the caption of a—

NOTE ON THE DISCOVERY OF FOSSILS IN THE AURIFEROUS SLATE FORMATION OF THE MARIPOSA ESTATE, CALIFORIA, AND THE PROBABLE GEOLOGICAL AGE.

During a recent visit to the Mariposa estate, Mariposa county, my attention was called to some organic remeins in the slates, near Beer Valley, by Miss Errington, a lady who takes an enthusiastic interest in the sciences of geology and mineralogy, and has for some time past been seeking for fossils in the gold formation of that neighborhood. One of the specimens was the cast of a bivalve shell, and appeared to me to be a *plagiostoma*. On further search, we found other specimens, some of which much resemble *inoceramus*, to which I am inclined to refer them. Certain long tubular caveties in the slates, marked with heavy lines, and slightly converging, seemed to be casts of long, nearly cylindrical shells, possibly *nerinœa*. These forms would indicate a Jurassic or Cretaceoue age for the formation. I propose to suhmit these specimens to a competent palæontologist at the East, for exnmination, and to dedicate one of the species, if new, to Miss Errington.

Professor Blake further informs me that the hox of specimens had heen forwarded to the Smithsonian Institute, but that owing, as I understood Professor B., to some unpleasantness occurring connected with the State Geologist, their full description had not yet been published; in fact, if I remember correctly, I was left to infer that their public description had been withheld at the instigation of Mr. J. D. Whitney, the State Geologist.

Susequently, viz., on the 21st November following, Mr. Gabb, the Palæontologist to the State Geological Survey, read before the same socicty a paper on the eame subject, under the head of—

NOTES ON SOME FOSSILS FROM THE GOLD-BEARING SLATES OF MARIPOSA, WITH DESCRIPTION OF SOME NEW SPECIES.

Through the kindness of Miss Errington, of Bear Valley, Mariposa county, I have had the opportunity of examining a series of fossils, discovered by thnt lady on the Mariposa estate. The shells appear to be of Jurassic age. The genera, so far recognized, are Belemnites, Nucula or Leda, Lima, Precten, and Pholadomya. The following are sufficiently perfect for description. Fuller descriptions and figures will be publiehed hereafter in the geological report of the State.

Lima, Brug.—*L. Erringtoni* G. Shell very oblique, eides subparallel; beaks small; anterior end prominently rounded, sloping with a broad curve below to the base; posterior eide nearly straight, continuing upwards in a long, narrow ear; anterior ear obsolete (?).

Surface marked by strong concentric undulations, crussed on the upper and posterior portione by fine radiating lines.

Length, 2.25 inches; width, one inch.

The specimens are nll very much compressed, and may he somewhat distorted in form, though the outlinee are very nearly uniform in all of the specimens.

Pholadomya, Sow.—*P. orbiculata* G. Compressed, eub-circular; beaks rather promineut, nearly neutral; anterior end and base regularly rounded; posterior end elightly produced, more prominent below than above. Surface ornamented by concentric ribs, irregular in size, crossed by undulating, radiating lines on the anterior half of the ehell. These lines become gradually obsolete, and disappear on or ahout the middle of all of the specimens, nlthough more perfect examples might show them continuing further.

Height, from a slightly-distorted specimen, 1.1 inch; width, 1.3 inch.

Like the preceding species, nll of the specimens have suffered considerahly hy compression; and had we perfect specimens, the shell would be found to be quite convex.

Belemnites.—*B. Pacificus* G. Long, slender, tapering very gradually and with a slight convexity to the tip. Section, sub-elliptical; alveolus deep and narrow.

A specimen 3 inches long, measures 35 in. in diameter in the middle. One cast has been found with a diameter of .9 inch at the broad est part.

I first discovered this species, as imperfect casts, in the slates near Spanish Flat, ElDorado county. Since then numerous fragments and casts have been found nt Mariposa, by Mr. C. R. King and Miss Errington.

The only notice, as promised above, which has hitherto appeared from the State Geologist, is a brief one in the preface to the volume of plates recently published, in which it is stated that, "during the spring of the current year (1864), Mr. Clarence R. King mede some valuable explorations in the Humboldt ranges of Nevada Territory. He also, previously to that, had made nn interesting contribution to the geology of the Sierra Nevada, by the discovery of *belemnites* in close contact with one of the great auriferous quartz veins of the central gold mining region (on the Mariposa estate),† thus ndding a very important link to the chain of evidence, going to show that the auriferous slates nnd metamorphic rocks of Californin are, to a large extent, of secondary age, and not palæzoic, as had heretofore *always been assumed without evidence.*"

The last few words have been italicized hy me, hecause Mr. Whitney had not only been informed by me personally that on other than palæontological evidence I had for many years held an opinion quite the reverse. This was stated to him at the interview in July of 1863, when he refused to afford me any information whatever after he had learned my object in seeking it. Nor was Mr. Whitney unaware of my first series of articles on this subject, published in the *Alta*, relating to the point under consideration, because he sent Mr. Gabb to wait upon Mr. MacCrellish, in order to complain of some deprecatory remarks which I had made in reference to Mr. Whitney withholding information sought by me; but which reticence was defended on the ground that it wae his duty to do so under the Legislative act constituting the State Geological Survey—a plea that might have obtained acceptnnce had a similar silence been also maintained in other instances. In place of which of the limited amount of twenty pages of preface, which, be it emphatically remarked, constitute *the whole of the State Geologist's contribution to the only volume relating to the survey which has hitherto been distribnted in this State*, more than three-fourths of it previously nppeared in *Silliman's Journal*.‡ With the exception of the part noticed, the State Geologist has not thought fit to contribute anything, not even some corrections which he must have possessed ample time for mnking.

Of the carboniferous fossils, the localities are not given, excepting such a wide one as to render it impossible, to judge from the information afforded, how far the theory is correct or not respecting the analogy claimed to exist by Mr. Whitney between parts of this coast as compared with the Trins of the Eastern Alps. Taking the volume which has appeared as a sole guide, the analogy claimed does not appear to be well borne out.

The reason why I have so long delayed the completion of this series has chiefly arisen from a desire to obtain all possible information connected with the snbject before I concluded my observations. Not wishing it to be continued in another volume of this journal, and having waited until the last moment in order to obtain a perusal of the long-promised part relating to the general geology of this coast, I have been compelled to finish my remarks without having seen it.

The State Geologist was absent from Californiа more than fifteen months, professedly for the object of supervising the publication of the two volumes alluded to. I have already shown that by far the largest part of the published volume is the work of Mr. Gabb. If Mr. Gabb could revise *plates* and letter press whilst residing in California, why could not Mr. Whitney also remain and revise letter press, which can be so much more easily corrected through the mail as compared with drawings. Besides, if the promised volume of the General Geology of Californin had not gone to press at the time the State Geologist left the East, it would have to be corrected from the Pacific side. If this is the fact, in what existed the advantage of Mr. Whitney heing absent a year and a half from the active duties of his position? It will eurely not be contended that Mr. Whitney went East in order to obtain assistance in arranging and writing up the volume relating to the general geology of California. The most fitting place for that purpose was the Pacific coast, where anomolies, misconceptions, and occasionel lapses of obliviousness could be most readily and easily explained or supplied. Had the long-promised volume of letter press been completed before Mr. W. left the East, it ought before this time to have heen in the hands of such of the California public as chose to purchase it.

One very singular circumstance connected with the discovery of the fossils under consideration, is that which the State Geologist informs us, viz., that Mr. C. R. King discovered them *prior* to the spring of 1864.§ Mr. Gabb does not appear to have heen aware of the circumstance. On the other hand, Mr. Gahb leads us to infer‖ that belemnites were discovered by *him*, in El Dorado county, prior to the discovery of Miss Errington and Mr. C. R. King, on the Mariposa grant; yet, this presumed earlier discovery of Mr. Gabb does not appear to have been known to the State Geologist—mystery and reticence all round—perhape Mr. Gabb will explain.

The writer has no interest whatever as respects the priority of discovery, except such as must be generally felt in desiring to nward honor alone to where honor is due, which, in this instance, he sincerely helieves ought to hc nccorded to Miss Errington.

As the Legislature is now in session, it is to be hoped that precnutions will he taken that in future the State finances shall not he so ueelessly squandered ae they appear to have been with this survey, nnd if it is to be continued, let the State have a reasonably fair return for the mouey disbursed—a fair dollar's worth for a dollar—hitherto we have not had a pienyune's worth for every dollnr expended—*malgre* all the stilted statements made by a few members of the executive and legislative bodies, who appear to claim the honor of being entitled to be looked upon as patrons of science, simply because they are advocates for the expenditure of public money in its name, without taking proper precautione ngainst the wasteful or useless application of the sums appropriated for that object.

I can only briefly allude to my own diecovery, towards the close of June, 1864, of organic remains on the banks of the Merced, which were described in a former paper, viz., a few needle-formed perforations, including one about a quarter of an inch in diameter, or rather irregular form. Of the smaller ones, they appeared to resemble more the character of *dentalium* than any other with which I am acquainted. These are to be found about five miles from the locality where Miss Errington discovered those near the Pine-Tree lead. From the description given me of the locality where Miss E. obtained the specimens above described, I suspect that the traces of former life discovered by me, near the Merced river, must belong to beds at least 500 or possibly 1,000 feet below those where fossils had been found on Mount Bullion. I deeply regret that while in that vicinity, for more than three months, I was unaware of Miss Errington's discoveries; had I been eo, I should have made a speciel search, in order to have discovered the locality from which the numeroue large boulders of conglomerate were derived, composed of brecciated and water-worn pebbles, associated with pieces of what I at the time assumed to have been composed of pumice, but which might possibly have heen corals. I have not the slightest hesitation, however, in expressing my conviction that the conglomerate strata from which these boulders were derived, is situate above the beds where I discovered traces of organic remains, and most probably below the beds on Mount Bullion, where fossils have also been found.

The evidence so far is tolerably good, that what may be termed the champion auriferous vein of California, extending more than forty miles in length, and in some places upwards of one hundred feet in hreadth, protrudes, at least in certain localities, through rocks as recent as the Jurassic; a point which I hnd for many years suspected, on theoretic grounds, not only as possible but as highly probable. These views, however, I only very rarely expressed to others, as it may easily be conceived that the opportunities have been exceedingly rare for mutual interchange of thought on such a subject as is opened out by this field of euquiry. The theory of the formation of mineral veins, and the nssociation therewith of the noble and ordinary metals, is, per. aps, the least advanced of any connected with modern science—a fact chiefly owing, I believe, to the circumetance that few persons have paid much attention to the subject who were well versed in chemistry, especially those hranches of that science which specially pertain to metallurgy, and the influence of high temperatures in disseminating and moditying the character of metallic compounds usually found as minerals in the course of mining. A very short time, however, prior to my leaving England, neer the end of 1855, I did explain my views fully to the late Daniel Sharpe, on an occasion when that lamented gentleman exhibited to me a specimen of fissile roofing slate from the Alps, similar to those obtained from the Lower Silurien formation of North Wales, yet Mr. Sharpe assured me that he witnessed the most incontestihle evidence that the specimen of slate hrought by him from the Alps belonged to the Liessic group of rocks. I wes to have corresponded with this gentleman on matters relating to the age of Gold-Bearing rocks, his sudden and untimely decease, which occurred almost simultaneously with my arrival in California, prevented this arrangement being carried into effect, eo that with the exception of an occasioual expression of opinion, I took no steps to promulgate my views, until the appearance in the *Alta*, July, 1863, of the first of my pepers relating to the age of Gold-Bearing rocks.

It was proposed completing this paper in the present number. The manuscript extended to too great an extent for insertion in this day's publication; the bnlence will appeer in our next.

[Written for the Mining and Scientific Press.]

Note on Gurlts' Process.

BY PROFESSOR ROWLANDSON, F. G. S. L.

Owing to innttentive reading, I inadvertantly classed Gurlts' process, in my communication of last week, as an *amalgamating* in place of a *humid* one; all the prior remarks, therefore, respecting the probabilty of the resulting silver har being alloyed with copper are inapplicable. I scarcely regret the mistake, however, as the error has caused me more fully to reconsider the subject, as an indefinite impression existed on my mind that at some former time the principle on which this mcthod is based had previonsly been brought to my notice. After the observations adverted to had been written and set in type, I eearched some old memoranda and discovered that my attention was first especially called to the formula on which Gurlts' mcthod is hased, during an after-dinner conversation with the late Robert Stephensnn, the engineer of the St. Lawrence, Britannia, Conway bridges, etc., etc. The immediate cause which led to this particular subject, arose from some remarks made by Mr. S. respecting a patent which I had recently obtained (February, 1849) for the better extraction of gold and silver from ores containing copper and zinc, in which he drew my atteution to eome experiments made by Boussingault (*Ann. Chim. Phys.* 51, 350,) to the effect that sulphide of silver is not decomposed by aqueous protochloride of copper. If, however, the copper solution contained common salt, the eulphide of silver becomes converted into chloride of silver and sulphide of copper. According to the statement of B., 100 parts of chloride of silver treated in this manner for a few days, yield 146 parts of a mixture of chloride of silver and sulphide of copper. In the first instance, half the sulphide of silver acts npou the protochloride of copper, forming chloride of eilver, free sulphur, and dichloride of copper, which remains dissolved in common salt:

$$Ag.\ S. + 2\ Cu.\ Cl. = S. + Cu^2\ S.$$

Afterwards, the dissolved dichloride of copper, and the other half of the sulphide of silver, form chloride of silver and sulphide of copper:

$$Ag.\ S. + Cu^2\ Cl. = Ag.\ Cl. + Cu^2\ S.$$

From which Boussingault* inferred that sulphide of silver undergoes decomposition in a solution of dechloride of copper in common salt.

It is not generally known that the late Robert Stephenson's first independent position in life was that of superintendent of the Columbian Gold and Silver Mining company, whose operations were carried on in Central America, a position which he occupied for five years. During this period he was associated with the celebrated French chemist Boussingnult, the

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* October 3d, 1864.

† The Pine Tree lead is probably here alluded to.

‡ A large part in the September number for 1864.

§ Does not state whether prior or after Miss Errington's discovery.

‖ This may probably have occurred unintentionally, in consequence of hastily drawing up the notes relative to the discovery alluded to.

* Boussingault will, perhaps, be better known to the general reader as an agricultural rather than a metallurgic chemist. His Rural Economy must be known to nearly all intelligent persons.

latter being the superintending metallurgist, to whose genius and industry the present generation is indebted for no mean share of its present stock of useful metallurgic knowledge. Boussingault and Stephenson mutually esteemed each other, and maintained a life-long correspondence; the latter was a good chemist, having been taught by the late Professor Phillips, and never felt more gratified than when discussing points relating to chemistry, as applicable to metallurgy, mining and geology. Of the numerous men possessed of the highest intellectual attainments, of whom it has been my good fortune to possess the honor of familiar intercourse, I never met one that at all approached the late Robert Stephenson, not only in the variety but also the proficiency of his knowledge in every department of science excepting astronomy, to which I never heard him make any pretensions.

The researches of Boussingault, just noticed, threw much light upon amalgamation processes generally, and especially of that known under the denomination of the Patio method. Skilled parties would not find it difficult to convert the theory into practical account, and adapt it for reducing poor ores and tailings now wasted or lying dormant. At the conversation alluded to, some other points of great importance relating to metallurgy were introduced, which I will name hereafter if a fitting occasion arises. The defective point in Boussingault's discovery will be found in practice to consist in the fact that mineralized silver, in ordinary ores, does not generally exist as a simple sulphide of silver, but more frequently as a double or treble sulphide, often even with a larger admixture, as in Polybasite, notwithstanding which I have no doubt there are many cases where the so-called Gurlt's, or rather, Boussingault's process, could be advantageously adopted. Boussingault published his observations more than a quarter of a century ago, which fact affords me an appropriate opportunity for again repeating what I stated five years ago—namely, that there existed little room for invention or discovery in relation to the treatment of silver ores; that branch of chemistry has been well worked. What is needed in these States and Territories is the employment of men to superintend the working of such ores, not only well acquainted with the existing knowledge on the subject, but who have had some practical experience in what may be termed chemical metallurgy, combined with quickness of perception and comprehensiveness of mind, so as to be enabled at once to conceive the best mode to be adopted in each case, allied with practical aptitude in carrying fitting conclusions into economic effect.

THE HOOSAC TUNNEL TO BE ABANDONED.—That magnificent abortion, the Hoosac Tunnel, which has already swallowed up several millions of dollars, is likely to be abandoned on account of its difficulty and expense. The continuance of State aid in its construction will come up before the present session of the Massachusetts Legislature. The *American Railway Times*, of Boston, which seems to be authority in such matters in New England, takes ground against it, and in favor of State aid in the construction of a railroad over the mountains, as in the case of the Pennsylvania Central and the Baltimore and Ohio railroads.

SENATOR STEWART'S JUDICIARY BILL.—The *Virginia Union*, noticing the telegraphic report that Senator Stewart has introduced a bill in Congress, defining the duties of the United States Courts on the Pacific coast, says: "The story is obtaining credit in circles supposed to be in the secret of the Senator's plans, that the object of the bill is to vest in these courts jurisdiction over all cases of litigation, the subject-matter of which is situated on the public lands."

DR. CHANNING, in his recent lecture before the Boston Science Association said that the Russian peasantry had a way of washing which he had not seen related in any book of travels. They took a mouthful of water from the pump, and, after holding it until the chill was well off, spurted it, with a lively jet, into the hands, and applied it briskly to the face. Towels they have none.

LUCKY AGAIN.—The Smiley wrecking party, which left here sometime ago to explore the wreck of the steamship Golden Gate, have succeeded in fishing up about eighty thousand dollars of the lost treasure. A portion, amounting to seventeen thousand dollars, has already been received in this city.

IT is said that the Empress of Mexico transacts all the business pertaining to the government. She is said to be a shrewd and hard worker.

Mechanical.

THE IRON INTEREST IN THE UNITED STATES.

The production of iron and steel, and their manufacture into the various classes of heavy work and machinery, must ever form one of the most important industrial interests of every civilized community. The iron regions of this country, as well as its coal fields, are absolutely inexhaustible. To say nothing of the Lake Superior and Missouri production, there are scores of furnaces in Southern Ohio, and large sums are invested at various other points in the Western and Eastern States. Pittsburg, which is the centre of the iron interest of Pennsylvania, has now in operation thirty-two establishments for making bars, sheet-iron, rods, plates, etc., and six steel works, with a capacity of 200,000 tons per year. This district has five blast furnaces, running almost exclusively on Lake Superior ore.

Soon after the close of the war, and consequent stoppage of government demand, the iron business of the country met with a sudden and most damaging decline. Recently, however, the business has revived again, and the present is most emphatically the iron-makers' harvest. Demands for almost every class of work are coming in from all sections of the country. The furnaces, mills and foundries are everywhere being driven to their utmost capacity, and many are greatly enlarging their facilities for work. A bright and permanently prosperous future seems now in store for the iron trade of the country.

STEEL MANUFACTURE.

An especially increasing attention is beginning to be felt in the manufacture of steel. The late improvements recently introduced into this branch of the iron business in Europe are being rapidly transplanted to this country; and the application of steel to a wider range of purposes is fast being made. The opinion is rapidly gaining ground that the improvements for cheapening the manufacture of steel, will soon make its use quite as general, if not more so than iron. It is believed that the time is not far distant when even our railroad tracks, at least all the principal lines, where the rails are subjected to heavy and continuous wear, will be made of steel.

The Pennsylvania Railroad Co., have recently been experimenting in this direction, and have furthermore availed themselves of the best European experience; and have become thoroughly convinced of the superiority in point of economy of the steel over the iron rail. Under the encouragement of this company, a capital of $1,000,000 has been raised for the purpose of erecting steel works, for manufacturing steel rails, wheel-tires, etc.

S. M. Felton, Esq., late President of the Philadelphia, Wilmington and Baltimore Railroad Company, is President, and R. H. Lamborn, late Secretary of the American Iron and Steel Association, is Secretary. The works will go into operation at Harrisburg, on the ground contiguous to the Susquehanna river, and immediately on the line of the Pennsylvania Railroad. It is admitted by all practical machinists that this enterprise will be the most extensive of its kind ever erected in America, and is to be on this continent what the celebrated works of Wade & Butcher at Sheffield are to Europe. One thousand experienced workmen in steel will be brought from England, while 15,000 other skilled mechanics will be required for the full operation of these works.

DUTIES AND TAXES SHOULD BE MODIFIED.

It is somewhat unfortunate, at the present time, that the existing revenue laws show a striking disproportion between the home tax and the tariff on iron, the effect of which is highly injurious to the great iron home interest. Efforts are being made, however, to make such a representation to the present Congress, as it is thought will call for a prompt and wise modification of existing legislation on this matter, to the end that this industry shall be placed in a condition to thrive and increase; a matter especially important at the present time, when the threatening aspect of our foreign relations are such as may at almost any moment throw us upon our own resources, in this pre-eminently important branch of industry.

A SUGGESTIVE REMARK.

Mr. D. J. Morrell, of Johnstown, Penn., in contrasting the miserable wages of fifty cents a day paid by English iron masters, with the price of two dollars per day paid by American iron manufacturers, makes the following highly important and suggestive remark:

"That portion of the price of a ton of imported iron which stands for the wages of labor represents coarse food, mean raiment, and worse lodging, political inutility, enforced ignorance, serfdom in a single occupation, with a prospect of eventual relief by the parish. That portion of a ton of American iron which stands for the wages of labor, represents fresh and wholesome food, good raiment, freedom of movement and change of occupation, intelligent support of the machinery of municipal, state and national government, with a prospect of comfortable old age, dividing its substance, with blessings, among prosperous children."

THE AMENOORAPH.—Among the scientific novelties exhibited at the late meeting of the British Association at Birmingham, there was an instrument invented and patented by S. B. Howlett, of the War Office, by means of which winds, from the gentlest breezes up to the most furious storm, can be made to record their own direction and force in the form of a diagram on paper. In other words, the instrument has only to be set in an exposed position, and left to itself during the continuance of a breeze or storm, and it will present an observer with an accurate map, drawn to a scale, of what the winds have been doing. Their direction is shown to a degree, and their strength is measured to half an ounce, and this with unerring precision. The instrument does not occupy more space than an ordinary theodolite, and is pyramidal in shape.

MACHINE FOR REGISTERING MUSICAL NOTES. One Herr Andres, of Mayence, has invented a machine which will write down music as fast as it is played. The inward organization of which is still a secret; it is said, however, to be very simple, and cheap, and may be readily adapted as an attachment to any instrument, such as a piano, organ, etc. The visible process outside consists in inserting at one end of the machine an endless strip of paper, which comes out at the other end ruled with red lines, while the music is printed in black. It prints the notes, marks the pauses, and forte on the piano, and notes when the employment of the pedal commences and stops, etc. The invention may be entirely concealed under or behind the instrument. If it will accomplish all of this, it must be really a wonderful invention.

HOW LOCOMOTIVES ARE MADE IN THE UNITED STATES.—The great competition in this country has made a resort to system, or fixed plan of procedure, a matter of necessity. There are no less than twenty noted establishments where quantities of engines are turned out, to say nothing of lesser ones, and repair shops, which do a great deal toward renovating and rebuilding engines. In the best of these large shops the same principle is pursued as in the manufacture of Colt's pistol, or a Springfield rifled musket; that is to say, every engine of its class is exactly like its predecessor, and a cylinder could be made and fitted to a locomotive anywhere with the certainty that it would be right as to its centre from the frame, right as to its position on the frame, and of the same dimensions in other respects to insure its proper working.

RYE STRAW AND TOW PAPER.—M. A. Cushing, of Glenn's Falls (N. Y.) sends the *Scientific American* samples of paper made from three parts coarse tow, shoove and all, and thirty parts of rye straw. The paper is very white and of good quality, and devoid of that harsh, brittle feeling and texture which is common to straw papers. The company is now making two tons per day.

MECHANICS' wages are advancing in England. The cabinet makers in London lately demanded an advance of ten per cent. on all kinds of work, and received it.

LAKE SUPERIOR IRON.—The quality of the Lake Superior iron is conceded to be superior to any iron in the world, as is shown by the following analysis, giving the strength per square inch in pounds:

Salisbury, Conn., iron	58,000.
Swedish (best)	58,134.
English cable	59,105.
Center Co., Pa.	50,400.
Essex Co., N. Y.	50 960.
Lancaster Co., Pa.	76,969.
Com English and American	30,000.
Lake Superior	80,582.

But little iron is worked into manufactures on Lake Superior except for home use. Car wheels are made to some extent at Harvey, and at the railway car shops at Marquette—a very complete establishment, by the way, which under the superintendence of Mr. Dunkersley, turns out all the work needed on a railway. For car wheels, gearing, shafting, boiler iron, and in fact for all uses where great strength and freedom from imperfections is required, the Lake Superior iron must ever take the precedence over all others.

OBTAINING MOTIVE POWER.—An invention, the special object of which is to enable the heat produced by combustion to be utilised in the production of motive power through a greater range of temperature than is now done, in order that a larger proportion of the heat may be converted into mechanical effect, has been provisionally specified by Mr. M. P. Boulton, of Tew Park, Oxon. He states that heat may be imparted to the fluid by injecting into the vessel some substance in a state of fusion—metals, or salts of metals—the steam being used in various ways as that produced in the usual method is employed.

CAST-IRON NAILS.—Cast-iron nails are now extensively used, and are found to rust much less rapidly under the influence of the atmosphere than ordinary nails, or even those made of copper. They are used especially in making roofs for manufactories which produce gases that corrode common wrought-iron. The nails, after being cast from very hot metal in sand-moulds, are rendered malleable by being exposed to a red heat for 72 hours in refractory retorts containing pulverized oxide of iron and sawdust, and then allowed to cool slowly.

NEW MATERIAL FOR MATTRESSES.—Nineteen large bales of the rough mossy covering of the soap-plant root, or bulb, have arrived in this city from Salt Spring Valley, near Copperopolis. This material has been tried, it is said, and found to answer a very good purpose for mattresses. When thoroughly cleaned and prepared, it is esteemed superior to pulu, inasmuch as it does not form into hard lumps, but remains soft and yielding while in use.

A MECHANICAL LUXURY.—A patent has recently been taken out in France for a carriage that is air tight, and so strong that the air may be compressed in it to a density suitable to the necessities of patients who have diseases that require them to be kept in compressed air, in order to breathe effectively. The air is constantly pumped in, as the carriage runs, by a pump which is worked by an eccentric on the axle of the hind wheels. This must be a great luxury for invalids.

STEEL CAGES.—The subject of the introduction of steel cages, instead of wood or iron, for use in the mines, is being agitated in England. The chief object is to get rid of the weight. A steel cage can be made that will weigh one-third less than an iron one, and still be much stronger, and more enduring.

A LARGE ORGAN.—Mr. Joseph Mayer, of this city, is constructing for the Synagogue of the Congregation Emanuel, the largest organ ever built on this coast. Its cost will be about $8,000.

A GREAT WOOD CHOPPING FEAT.—The San Andreas *Register* says: A young man named Michael Welch at Donnallan's ranch, recently chopped 122 cords of wood in 25½ days, and corded up 26½ cords in one day, and 32 cords in another.

PETROLEUM VS. COAL.—Mr. C. J. Richardson, in a letter to the London *Times*, says his brother at Woolwich Dockyard has shown that petroleum is 50 per cent. more powerful than the best coal as steam fuel, that it can be burned with ease and without danger.

LARGE quantities of sugar pine staves for syrup barrels are manufactured in Tuolumne county, east of Sonora, and shipped to San Francisco. The business promises to become an important branch of industry.

THE first locomotive made in Iowa, was turned out of the workshop of the Des Moines Valley Railroad at Keokuk, Saturday, October 14, and put upon that line—more soon to follow.

SALES OF THE WEEK
BY THE S. F. STOCK & EXCHANGE BOARD.

Saturday, December 23.

2 shs Savage at 850@800 per foot, s 30.
4 shs Savage at 870@850 per foot, b 30.
16 shs Savage at 850@795 per foot.
2 shs Savage at 780 per foot, s 3.
2 shs Savage at 800 per foot, s 10.
2 shs Savage at 800 per foot, s 20.
23 shs Chollar-Potosi at 147½@145 per foot.
6 shs Chollar-Potosi at 145 per foot, b 3.
45 shs Chollar-Potosi at 137½@145 pr ft, s 30
5 shs Chollar Potosi at 150 per foot, b 30.
52 shs Halo & Norcross at 300@210 per foot.
2 shs Hale & Norcross at 280 per foot, b 3.
4 shs Hale & Norcross at 270 per foot, b 30.
42 shs Hale & Norcross at 290@240 pr ft, s 10.
18 shs Hale & Norcross at 260@270 pr ft, s 20
8 shs Crown Point at 500 per foot, b 30.
20 shs Crown Point at 450@475 per foot.
4 shs Crown Point at 460 per foot, s 3.
12 shs Gould & Carry at 900 per foot.
6 shs Belcher at 150@200 per foot.
16 shs Alpha, G. H., at 275@290 per foot.
8 shs Alpha, O H, at 280 per foot, s 5.
4 shs Alpha O, H., at 280 per foot, s 30.
120 shs Ophir at 370 per foot, b 30.
12 shs Ophir at 360 per foot.
24 shs Ophir at 355@350 per foot. s 10.
3 shs Yellow Jacket at 400@403½ per foot.
1 sh Yellow Jacket at 435 per foot, s 30.
30 shs Imperial at 103@105 per share.
10 shs Imperial at 600 per share, s 10.
10 shs Imperial at 102¾ per share, s 5.
110 shs Sierra Nevada at 5¼@5 per share.
10 shs Sierra Nevada at 5 per share, s 6.
10 shs Sierra Nevada at 5 per share, s 10.
30 shs Bullion at 25@23 per share.
16 shs Bullion at 22 per share, s 10.
5 shs Confidence at 24 per share, b 5.
6 shs Confidence at 24 per share.
9 shs Cal Steam Nav Co at 61 per cent.
10 shs Overman at 40 per foot, s 3.
22 shs Overman at 39½@39 per foot.
5 shs Overman at 39 per share, b 5.
Amount of sales.....$ 86,328 00

Tuesday, December 26.

12 shs Ophir at 345 per foot.
24 shs Ophir at 345 per foot, s 3.
36 shs Ophir at 376 per foot.
2 shs Savage at 850 per foot, s 3.
4 shs Savage at 850 per foot.
1 sh Savage at 875 per foot.
6 shs Savage at 870 per foot, s 3.
7 shs Savage at 880 per foot, s 3.
1 sh Savage at 885 per foot, s 3.
1 sh Savage at 890 per foot.
2 shs Savage at 890 per foot, s 3.
2 shs Savage at 900 per foot.
1 sh Savage at 900 per foot, cash.
2 shs Savage at 901 per foot, s 3.
4 shs Savage at 955@950 per foot, b 30.
1 sh Savage at 900 per foot, s 30.
1 sh Savage at 910 per foot.
1 sh Savage at 940 per foot, b 30.
15 shs Chollar-Potosi at 150 per foot.
7 shs Chollar-Potosi at 147½ per foot.
2 shs Hale & Norcross at 327 per foot, s 3
52 shs Hall & Norcross at 400 per foot.
2 shs Hale & Norcross at 400 per foot, s 3
4 shs Hale & Norcross at 375 per foot, s 30.
2 shs Hale & Norcross at 365 per foot, s 30.
4 shs Hale & Norcross at 385 per foot.
2 shs Hale & Norcross at 380 per foot.
4 shs Overman at 4 per share.
1 sh Overman at 40 per share, s 3.
15 shs Overman at 50 per foot, b 30.
12 shs Alpha at 315 per share.
20 shs Alpha, G H, at 310 per foot.
4 shs Alpha, G. H. at 305 per foot.
16 shs Alpha, G. H., at 310 per foot, b 30.
4 shs Alpha, G. H., at 300 per foot.
4 shs Alpha, G. H., at 295 per foot.
2 shs Yellow Jacket at 505 per foot.
1 shs Yellow Jacket at 525 per foot.
1 sh Yellow Jacket at 530 per foot.
1 sh Yellow Jacket at 525 per foot, s 3.
1 shs Yellow Jacket at 525 per foot, s 5.
2 shs Yellow Jacket at 500 per foot. s 30.
4 shs Yellow Jacket at 480 per foot, s 30.
1 sh Yellow Jacket at 515 per foot, b 10.
6 shs Yellow Jacket at 510 per foot.
1 sh Yellow Jacket at 500 per foot, s 3.
2 shs Yellow Jacket at 505 per foot, cash.
1 sh Yellow Jacket at 507½ per foot, s 3.
1 sh Yellow Jacket at 475 per foot, s 30.
1 sh Yellow Jacket at 510 per foot.
1 sh Yellow Jacket at 525 per foot, cash.
1 sh Belcher at 175 per foot.
10 shs Wide West at 6 per share.
1 sh Empire M & M Co. at 207½ per share.
1 sh Empire M & M Co. at 215 per sh.
15 shs Imperial at 100 per share, s 30.
6 shs Imperial at 103@102½ per sh, cash.
5 shs Imperial at 97½@98 per share, s 30.
5 shs Imperial at 102½ per share, cash.
2 shs Cal S Nav Co at 61 per cent
5 shs Cal. Steam Nav. Co. at 61 per ct, s 15.
$1,000 Legal Tender Notes at 67e s 15.

AFTERNOON SESSION.

10 shs Imperial at 320 per share, s 3.
16 shs Hale & Norcross at 310 per foot.
10 shs Hale & Norcross at 305 per foot.
12 shs Hale & Norcross at 305 per foot, s 3.
2 shs Hale & Norcross at 315 per foot.
6 shs Hale & Norcross at 320 per foot.
10 shs Hale & Norcross at 325 per foot. s 5.
2 shs Hale & Norcross at 330 per foot.
2 shs Hale & Norcross at 345 per foot.
10 shs Hale & Norcross at 350 per foot.
2 shs Hale & Norcross at 355 per foot.
4 shs Hale & Norcross at 360 per foot.
2 shs Hale & Norcross at 340 per foot, s 5.
16 shs Alpha, G. H., at 280@290 per foot.
8 shs Alpha, G. H., at 310 per ft, b 30.
4 shs Alpha, G H, at 295 per foot, b 5.
2 shs Belcher at 185 per foot, b 30.
2 shs Belcher at 150 per foot. s 30.
1 sh Belcher at 170 per foot, b 3.
4 shs Savage at 880 per foot, s 3.
6 shs Savage at 885 per foot.
16 shs Crown Point at 475 per foot.
4 shs Crown Point at 475 per foot, b 2.
4 shs Savage at 480 per foot.
1 sh Yellow Jacket at 490 per foot, s 30.
2 shs Yellow Jacket at 470 per share. s 30.
1 sh Yellow Jacket at 460 per foot, s 30.
2 shs Yellow Jacket at 552½ per foot.
1 sh Yellow Jacket at 500 per foot.
10 shs Yellow Jacket at 475 per foot, s 30.
1 sh Yellow Jacket at 500 per foot, s 5.
1 sh Yellow Jacket at 480 per foot, s 15.
3 shs Yellow Jacket at 500 per foot, s 3
3 shs Yellow Jacket at 510 per foot, b 30.
11 shs Chollar-Potosi at 145 per foot.
11 shs Chollar-Potosi at 142½ per foot, s 5.
12 shs Ophir at 355 per share.
25 shs Imperial at 102 per share.
27 shs Imperial at 102½ per share.
20 shs Imperial at 98 per share, s 30.
5 shs Imperial at 103 per share.
1 sh Overman at 43 per foot.
5 shs Overman at 52½ per foot.
10 shs Sierra Nevada at 7 per share.
10 shs Sierra Nevada at 7½ per share.
5 shs Sierra Nevada at 8 per share.
5 shs Confidence at 25 per share
5 shs Ca Steam Nav Co at 61 per cent, s 3.
10 shs Cal Steam Nav Co at 61 per cent.
Amount of sales.....$161,647 00

Wednesday, December 27.

19 shs Chollar-Potosi at 142½@140 per foot.
14 shs Yellow Jacket at 475@500 per foot.
19 shs Yellow Jacket at 475@500 per ft. s 30.
1 sh Yellow Jacket at 500 per foot, b 3.
1 sh Yellow Jacket at 617½ per foot, s 3.

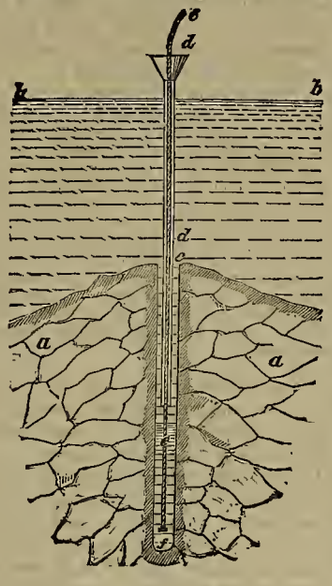
THE NEW BLASTING AGENCY.

NOBEL'S PATENT BLASTING OIL — (NItro-Glycerine)

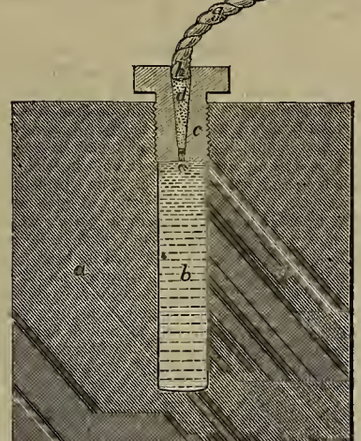
[Extracts from a work now in Press in the "Mining and Scientific Press" Job Office—by permission of the Publishers, Messrs. Bandman & Nielsen, Sole Agents for the Pacific Coast, No. 210 Front street, San Francisco.]

[CONTINUED.]

Directions for blasting under water.



a Is the rock.
b The water level.
c A bore.
d A tube with a funnel mouth. The tube, *d*, is passed down through the water into the bore, and the oil is poured down it; this done the fuse, *e*, with a capsule, *f*, is likewise let down through the tube, *d*, which latter is then removed, and the charge is ready.



Directions for blasting heavy blocks of iron, steel, &c.

a Is a block of iron.
b A bore of ¾-in. or 1-in. diameter.
c A screw with *loose winding*.
d A bore through the screw, which is to be very narrow, at *e*, and tightened with wax and filled with gunpowder, then connected with the *fuse g*, at *h*.

The bore to be completely filled with Nitro-Glycerine.

A ¾-in. bore is sufficient to blast almost any block of iron, but the charge sometimes has to be repeated.

TESTIMONIALS.

FROM GERMANY.

The Mining and Smelting Journal, Nos. 34 and 35, contains the following:

EXPERIMENTS WITH NOBEL'S PATENT BLASTING OIL IN THE OBERHARZ MINES.

Since the beginning of last year a new blasting agent, the *nitro-glycerine*, has been discovered by the Swedish engineer, M. Nobel, which has created quite a sensation. It has been employed already not only in mining, but also for military purposes, and generally found more effective than gunpowder. The relative strength of nitro-glycerine and powder, however, is not yet thoroughly established; the former has been described as from three to twenty times more powerful than the latter, while, in some instances, the action has been deemed equal. However, these considerable deviations can not astonish men of science, when they take into consideration the different circumstances which may influence the blasting of stones and rock, and the combinations to which they are subject, without mentioning the difficulties arising from the nature and quality of the blasting agents employed. We have received, till now, but very little and rather unsatisfactory information in regard to the experiments made with blasting oil in working of mines; for instance, they write us from Stassfurt that the trials made there with blasting oil in the rock salt mines gave equal results to those of blasting powder.

It is evident that the solitary experiments made, so far, do not give a true standard for judging the question, until experience will have taught in what proportion and in what manner this blasting agent can be employed to the greatest advantage; we, therefore, suspended our judgment when Mr. Nohel made bis experiments in the Harz, and more so because these experiments, owing to a scanty supply of blasting oil, could not he extended sufficiently, and because many blasts, on account of an unsatisfactory system of loading, failed to explode with the anticipated results.

However, the excellent results of some experiments have given sufficient proofs of the enormous power of this blasting material. I here refer particularly to two shots fired in a quarry near Clansthal, and to one borehole made in the Bergmanstrost Mine, where the rock was exceedingly hard.

In the former, the masses of graywacke were thoroughly torn up, and in the latter, a borehole of 15 inches depth by 1 to ¾-inches diameter, charged with three inches (0.15lbs. weight) of oil, and a sand covering of twelve inches, was sufficient to detach the floor, where blasting powder would have heen of no use.

In view of these and previous experiments, the Royal Mining Board of Clansthal resolved upon purchasing one quintal of tbis blasting oil, and ordered extensive and effective blasting to be made, for the sake of getting a clear conception of its utility.

The first of these experiments were made on the 11th and 12th of August, of this year, and were made under the direction of the Mining Counsellor, Mr. Koch, and assisted by several officials of the Oberharz mines. The locality chosen was the Trogthal quarry, below Lautenthal, and the results were the following:

The said quarry is worked for procuring building stones, &c., from the culmgraywacke rock found in this locality. The blocks vary in thickness from one to ten feet, their bearing is nearly borizoutal, and very suitable to be worked. Formerly, these blocks were taken out either by blasting with powder, or with crowbars, and sometimes the larger blocks were separated by fire.

For the sake of getting the stones of proper size a bole used to be bored from fifteen to eighteen inches deep, and at the proper distanee from the wall, which, after being blasted, caused a horizontal crack; after this was done a second hole was bored at a distance of two feet from the top to about a couple of inches from the said crack, whicb, being charged and fired, laid bare a block of from five to twenty cubic feet (seldom more). It was thus necessary to makc two horeholes of from twelve to fifteen inches depth for obtaining this result, besides the advantage that the crack often extended farther and prepared the field for further action.

In making the experiments with blasting oil, the intention was to make the boreholes more verticle and less inclined, to go to a greater depth, and, by setting the boreholes at a greater distance from the outer wall, to dislocate larger masses of rock and cause a saving in the small boreholes.

For the first five boreholes, a wall of graywacke was selected which protruded from 70 to 80 inches from the main wall, which had layers of from 80 to 100 inches. These holes were, on purpose, not made very wide, so that they should not interfere with the firing of the other sbots, aud thus ohtain, hy degrees, the experience which was contemplated. Each hole was fifty inches deep, and tbey were hored on a line at a distance of respectively 60, 70, 80, 90, and 80 inches from one another, and nearly in the center of two such layers, and of a width of 1¼-inches at the bottom.

The first hole, situated on the northern terminus of the graywacke hank, was charged with 1½lbs. of oil, which filled nine inches of the hole, leaving thus forty-one inches for tamping, which was done with water, according to Nohel's prescription; consequently, after having fastened a capsule to a Brickford's fuse, it was inserted into the hole to about the center of the oil cbarge, and then filled up with water, leaving the fuse to protrude sufficiently and fastening it at the top with a wood stopper.

After having ignited the fuse it extinguished near the wood stopper. A new one was set in and secured with clay. Two minutes after firing this second fusc, the explosion took place, with the desired result. The stone wall had not heen thrown out, but it was so thoroughly split to tbe very bottom that the blocks could he removed easily with a crowhar.

The next chargc was made in the same manner, with the difference that ¾lbs. of oil came up to a hight of 16 inches. The firing was done without inconvenience, and the actiou was still more satisfactory than in the first hole. The rock was not only thoroughly split, hut raised in such a manner that tbe blocks were thrown one upon the other. Even a fissure of one fathom length was made from the third borehole to the outside wall, laying open a block of seventy inches hy eighty, and shifting it a few inches out of its place, which made the blasting at this tbird hole superfluous.

The fourth hole, fifty inches deep and ninety inches from the outer wall, received a charge of one pound of oil, which occupied nineteen inches in hight. The tamping and firing was the same, and the result equally satisfactory.

The action of this explosion was enormous; not only that the stone wall had heen thorougbly split, hut the firing of the next hole had become unnecessary, as the whole mountain wall had been rent to a distance of ten fcet, and was even pushed out.

Thus, with three boreboles, a result was obtained which was helievcd to require five holes, and a mass of rock was dislocated of fifty feet length, eight feet thickness, and six and a-half feet in hight, equal to 2,600 cubic feet of rock, brought out of its natural connection, and without hurling any stones away. It will, however, require some more blasting to procure stones of smaller size.

These experiments having heen dcemed satisfactory, tbe work was suspended in the evening of August 11th, with the intention of making the chief experiments on tbe following day. These were taken up at the

appointed time by the mining engineer Von Linsingen, aad in presence of some other gentlemen from the miniag regions of the upper and lower Harz, who took an interest in the matter. Holes had been bored in convenient places to the depth of ninoty inches, and at a distanee of ninety iaches from the outer wall. The action of the blasting oil was really astonishiag.

The trial of filliag the borehole with water and of igniting the fuse to which a capsnle had been attached, failed repeatedly, because the fuse either extinguished or burned down without causiag an explosioa. The borehole was then filled with sand, after having introduced the fuse, to which a wooden box was attached, filled with powder, and of three inches length; this box was inserted about one-half into the oil, and quarry grains of the size of about one millimeter were used for filling up.

With this kind of filling the blasting succeeded every time, and six shots were fired in succession, without the least incoavenience.

The first borehole was sixty-four inches deep; it received a charge of 1¼lbs. of oil, up to 26 inches, and threw up 640 cubic feet of rock. One of these blocks, weighing almost 100 quintals, was hurled to a distance of three to four fathoms, while the smaller fragmeats were thrown one over another.

Of still more powerful effect was the next blast, with two lbs. of oil, filling thirty-five inches. The hole had ninety inches of depth, aad was located at aiaety inches from the outer wall. It threw up about 1,000 cubic feet (equal to aqont 1,250 quintals) in smaller aad larger blocks (the latter of more than 100 cubic feet), and separated them completely by shiftiag them in all directions.

The next hole, of scarcely one inch diameter at the bottom, and sixty inches depth, bored into very firm graywaeke, and in an uafavorable stratum, charged with 1¼lbs. of oil to 31 inches, separated about 400 cubic feet of rock.

Another hole of seventy-five feet depth was bored at one fathom from the outer wall, aud charged with one and a half pounds of oil to thirty inches. This blast not only raised the whole mountain wall of about 1,100 feet, but split the mountain from ten to twelve feet in every direetion, by which means, in boring a seeond holo, a couplo of thousand eubic feet of roek were completely displaeed. Another hole charged with 2 pounds of oil to thirty-one and a half inches hight, and with a depth of ninety inehes, at a distanee of ninety iaches from the outer wall, loosened 700 cubie foet of rock.

Finally, I have to mention an experiment made ou a gigantie scale: In the lower quarry of Trogthal, a hole was bored into a roek which offered two vertical sides, and nearly a horizontal upper level; the hole was bored 138 inches deep and one inch wide, at a distauee of twelve feet from the two sides. The charge was made with three pounds of oil, which filled sixty-seven inehes, leaving seventy-one inehes for the eovering with sand. The explosion took plaee four or six minutes after lighting the fuse, and the result was, that this tremendous mass of rock was raised from ten to fifteen inches and then dropped down again, while a similar expansion and contraetion on the sides was noticed from a lower point of observation. It is true that the mass of roek remained in its place after the explosion, but with so little coherency in its different strata that several thousand eubie feet of roek could be removed without difficulty.

The experiments were herewith suspended, to be resumed again, and it was ordered by the Royal Mining Board that similar trials should be made in the mines, and in blasting dross from the furnace (ofen-saue). The above results have convineed everybody that blasting oil eau be employed to advantage in quarries, in the eonstruetion of roads, eanals and railroads, offering besides the benefit that the boreholes could be filled with sand, which caused less labor than that required by the use of blasting powder.

We hope soon to be able to give further information on the use of blasting oil, treating the question from an economical point of view. F. W.

FROM THE OFFICIAL REPORTS

Of the Fifth Industrial Exhibition

Of the Mechanics' Institute, San Francisco, 1865.

[Now in Press—Mining and Scientific Press Book and Job Office.]

FIRST DEPARTMENT.

On Steam Engines and Machinery.

Committee:

CHARLES C. BEMIS. HENRY S. SMITH. THOMAS WINSHIP.

[*Continued from Page 373, Vol. XI.*]

Steam Engine from the Vulcan Iron Works, San Francisco.—This new double-piston Steam Engine was in operation during the entire exhibition, furnishing power for various machines. Its high velocity, the fine finish of its workmanship, the ingenuity of its design, the regularity of its motion, and the perfect ease with which it seemed to perform its work, attracted for this engine a large share of attention.

This stationary Steam Engine is eight inches diameter of cylinder, with two pistons, each eight inches stroke—the rod of one working through the hollow rod of the other. The crank-shaft has three cranks, two of which are attached to the cross-head of the hollow piston-rod of the back piston. The steam is admitted by a slide-valve in the center of the cylinder, between the two pistons, and exhausted from both ends at the same time, giving the whole pressure on the pistons turning the crank-shaft. When the pistons arrive at the ends of the cylinder the steam is admitted simultaneously upon each piston, and the exhaust takes place from between the pistons through the center port. The lap or lead may be obtained as in the common engine, if thought advisable, or a cut-off may be applied of any usual form. The advantages claimed for this engine by the manufacturers are, that it is perfectly balanced in the performance of its work by the combination of the double piston-head, enabling it to be run at a much higher velocity than a single engine, and requiring less foundation, consequently less expense in setting up. The steam being admitted to the opposite pistons at the same time, and communicated to the double cranks, obviates the necessity of a heavy bed-plate. It gives double the power, running the same speed of piston with the same diameter of cylinder as the single engine, and the whole weight of this engine is but 2,500 lbs., while the single engine, of the same power, weighs 4,500 lbs. The Committee believe that for many purposes this engine is entitled to much consideration from those interested in running steam machinery. We are informed that this new motor will be used by the manufacturers to drive the machinery of their works, taking the place of an ordinary single engine of 12-inch diameter of cylinder and 20-inch stroke. This will test the results claimed through the ordinary channels of power, and afford good data for comparisons of economy in working.—Awarded a silver medal.

Construction Valve Indicator, by W. R. Eckhart.—This Indicator is manufactured of silver, and is finely finished and of ingenious construction. It is the invention of W. R. Eckhart, of this city, first draughtsman at H. J. Booth & Co.'s Iron Works. The usefulness of this invention in the construction of steam engines is of much value to those who understand its application. In the mechanical drawing-room much valuable time and labor is spent in calculating and designing the movements of the delicately-working parts of an engine. By the aid of this ingenious device may be determined, without calculation or the forming of complicated lines, the position of the crank, together with that of the main valve and any cut-off valve that depends upon variable lap to cut off the steam (such as Meyer's, Edwards', Lagavrian's, Bodmer's, &c). It also shows the amount of lap that a cut-off plate should have to cut off at any given point of stroke. It shows the amount of lap lead and position of crank, expansion of cut-off and main valve by simply moving the parallels around a given center, they adjusting themselves to the point required. Awarded a silver medal.

Stoddart's Steam Pump, by David Stoddart, San Francisco.—This steam pump is a decided improvement, simple in construction, strong and efficient in action. The Committee submitted it to various severe tests, with the most satisfactory results Its purpose is to elevate water to great hights from shafts, or for hydraulic mining; also to feed high or low-pressure boilers on board of steamers, and to be used as a fire pump in case of necessity. For extinguishing fires on steamers or in manufacturing establishments its value is unsurpassed. It may be placed in the hold of a steamboat and instantly set in motion by simply turning on the steam from the deck or engine room, with the absolute certainty that the pump will immediately work. It can be run as slow as one stroke per minute, and it will deliver its water with the same certainty as if making forty or sixty strokes per minute. The Committee have never seen a steam pump that was more satisfactory in performance, and they have no hesitation in endorsing its claim of superiority for the above purposes.—Awarded a silver medal.

Harrison's Rotary Steam Pump.—This steam pump is the invention of Chas. H. Harrison, of this city. It was in constant operation during the Exhibition, and was looked upon with much interest by the visitors, on account of the large stream of water discharged and the regularity of its motion. The Committee were informed that the pump exhibited had the capacity to raise 500 gallons of water per minute to a hight dependent on its velocity. It seems to be peculiarly adapted for raising large bodies of water to small hights, and also has the valuable quality of great durability in its construction. Usually there is much waste of power in pumps from the sudden changes of direction and velocity to which the water is subjected in its passage through them. The improvements in this pump are intended to obviate this objection. This pump is driven by one horizontal steam engine attached to the cylinder, the whole apparatus being arranged in a very convenient and compact form for wrecking purposes. We believe it would be found equally as effective for bilge pumps, or for drainage purposes, where the quantity of water to be raised is large, and the lift not too great.—Awarded a silver medal.

Woodworth's Steam Pump.—This steam pump, built by H. J. Booth & Co., Union Iron Works, San Francisco, is of excellent finish and worked well. This steam pump has established its own report throughout the United States, and needs no commendations from this Committee.

Foot-Lathe with Double Slide Rest, by Adolf Hecker, San Francisco.—This is a small foot-lathe calculated for iron, brass, and wood-turning. It is of neat design, good workmanship, well finished, and a credit to the maker.—Awarded a diploma.

Steam Engine by E. T. Steen, San Francisco.—One steam engine, of California make. It is twenty-five horse power, and no piece, except the fly-wheel, weighs over 550 lbs. It can be put up right or left hand without altering a single piece of its combination. The piston requires no adjusting, is always steam tight, and will not cut the cylinder.—Awarded a certificate of merit.

On Quartz and Mining Machinery.

Committee:

J. A. HOBART. JOHN ROACH. WM. H. SCOVILLE.

Hanscom's Crusher.—A small model only being exhibited at work, is favorably recommended by the Committee as deserving the award of a silver medal.

Crusher by Burgion & Johnson.—An incomplete model, in some particulars, which the proprietors admit to have been imperfect in construction, the which being remedied, the committee have no doubt will prove a valuable machine.—Awarded a certificate of merit.

Brodie's Crusher.—Apparently a valuable machine, but, not being worked, the committee are unable to judge of its efficiency.

Hammer Battery by Rix & Logan.—This machine is designed to do the work now done by the wet stamp battery. Its distinguishing feature is the revolving horizontally within the pan of several hammers, with their faces outwards, by jointing the ends of their handles to revolving arms, so that, while the hammers are drawn around, they swing outwardly, from centrifugal force, and strike against dies placed about the pan on the inside. These dies are so placed that each hammer strikes upon one and then leaps to the next, giving blows similar in every respect to common bammer blows, except that they are drawing. The machine can be so constructed as to give such weight and velocity to the hammers as may be desired, thus securing the most economical blow for the purpose required. The method of feed and discharge are of the simplest character, no hopper, feeder, or screws being used, the ore being shoveled into the pan, and the pulp being drawn from the center by a pipe. This battery contemplates a complete change of system, by dispensing with the heavy stamps and bed-plates usual to such machines. By the decrease of weight the cost of transportation and other expenses are materially lessened, which should create a great demand for this species of wet crushing battery. The committee have carefully examined the model, and, being satisfied with the quality and quantity of work done, in comparison with the small amount of power required, do recommend this machine as deserving a silver medal.

Roasting Furnace by William Bruckner.—For sulphurets or ores needing roasting, this seems to be a novel contrivance, subjecting the material to be treated to the direct flame of the fire, by continuous rotary motion, which, by a screw fan, constantly presents a new surface to the flames, thereby saving one-half, or more, of the time usually required in roasting the mineral. The condensors at the back of the revolving cylinder catch all vapors, except what may pass off at the chimney. In the opinion of the committee, these syphon-like condensers, as exhibited, are not sufficiently large to accomplish all that the inventor claims. The committee recommend the invention as deserving a silver medal.

Grinder by J. M. Beth, who exhibits a grinder of simple construction, and efficient as a working machine of easy manipulation, for which the committee award a diploma.

Knox Pan used as an Amalgamator and Separator.—For a recent addition of a steam bottom, in connection with this well known pan, the committee award a silver medal.

Hinkle's Grinder and Amalgamator.—A small model exhibited worked well. The grinding being against the sides and not on the bottom, the current is made towards the center. When at the top of the pan, or grinder, the pulp is brought in contact with a copper amalgamated plate, directing the current by both its surfaces, and intercepting the valuable metal. Large sized machines, on this principle, are constructed. The committee award a certificate of merit.

Strong's Union Pan.—This pan has double-reversing motion grinders. The lower grinder, on bottom of pan, by rapid motion, gives the pulp a direction towards the periphery on the upper surface of the grinders. Another set of shoes play or revolve in a contrary direction, having a tendency to check the fluid set in motion by the lower shoes, and thus, between these counteracting currents, the pulp is brought rapidly in communication with the grinding surfaces. In the opinion of the committee it is questionable whether these double sets of shoes are a benefit in proportion to the power which is necessarily required to work them.

Hepburn's & Peterson's Pan.—This is a good, solid, substantial pan, with steam bottom, capable, no doubt, of doing good work. The committee could not judge in that particular, from the fact that it was not set in motion.

[*To be Continued.*]

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3 shs Yellow Jacket at 560 per foot, b 10.
7 shs Yellow Jacket at 555@560 per ft, s 30.
3 shs Savage at 850 per foot, s 3.
9 shs Savage at 855@845 per foot.
20 shs Crown Point at 490 per foot, s 3.
3 shs Crown Point at 500@495 per foot.
1 sh Belcher at 155 per foot.
4 shs Belcher at 150@145 per foot, s 3.
22 shs Hale & Norcross at 340@350 per foot.
4 shs Hale & Norcross at 340 per foot, s 3.
8 shs Alpha, G H, at 275@270 per foot.
4 shs Alpha, G H, at 265 per foot, s 3.
7 shs Empire M & M Co. at 220@375.
3 shs Empire M & M Co. at 230 per sh, s 3.
5 shs De Soto at 7 per share.
5 shs Overman at 45 per foot, s 30.
2 shs Overman at 55 per foot.
50 shs Sierra Nevada at 8@7½ per share.
10 shs Imperial at 103½@107½ per share, s 3.
80 shs Imperial at 107½@106 per share.
5 shs Imperial at 105 per share, s 10.
10 shs Imperial at 107½ per share, b 10.
5 shs Imperial at 106 per share, s 5.
10 shs Imperial at 102½ per share, s 30.
10 shs Bullion at 35@32½ per share.
5 shs Confidence at 26 per share.
4 shs Cal Steam Nav Co at 61@60¾ per ct.

AFTERNOON SESSION.

20 shs Crown Point at 500 per foot.
32 shs Crown Point at 500 per foot, s 3.
16 shs Yellow Jacket at 560@530 per foot.
3 shs Yellow Jacket at 550@540 per ft, b 5.
2 shs Yellow Jacket at 55 @55 per ft, s 3.
5 shs Yellow Jacket at 545@542½ per ft.
1 sh Yellow Jacket at 540 per foot, s 10.
1 sh Yellow Jacket at 550 per foot, b 3.
3 shs Savage at 810 per foot.
2 shs Savage at 840@800 per foot, s 10.
3 shs Savage at 850@800 per foot, b 3.
8 shs Savage at 810 per foot.
2 shs Savage at 790 per foot, s 10.
2 shs Savage at 790 per foot.
5 shs Savage at 780 per foot, s 15.
8 shs Savage at 780 per foot, s 30.
5 shs Chollar-Potosi at 155@144 per foot.
16 shs Hale & Norcross at 310@320 per foot.
2 shs Hale & Norcross at 315 per foot, s 3.
8 shs Alpha, G. H., at 250@240 per foot.
10 shs Imperial at 108@109 per share.
5 shs Imperial at 110 per share, b 10.
15 shs Imperial at 105 per share, s 30.
10 shs Imperial at 110@111 per share.
10 shs Imperial at 110 per share, s 30.
10 shs Overman at 50 per share, s 30.
15 shs Overman at 55 per foot.
2 shs Empire M. & M. Co. at 270 per share.
90 shs Bullion at 35@34 per share.
10 shs Bullion at 32 per share, s 30.
1 sh Cal Steam Nav Co at 60 per cent.
$5,000 Imperial Trader Notes at 67½ per cent.
Amount of sales.....$153,629 00

Thursday, December 28.

24 shs Ophir at 350@345 per foot.
64 shs Chollar-Potosi at 148@155 per foot.
10 shs Chollar-Potosi at 160 per foot, s 30.
15 shs Chollar-Potosi at 160 per foot, s 30.
5 shs Chollar-Potosi at 150 per foot, s 20.
26 shs Hale & Norcross at 315@290 per ft.
15 shs Hale & Norcross at 315@305, b 30.
1 sh Yellow Jacket at 525 per foot, s 3.
3 shs Yellow Jacket at 535@530 per ft, s 30.
19 shs Yellow Jacket at 540@562½ pr ft.
3 shs Savage at 830@830 per foot.
2 shs Savage at 800@790 per foot, s 5
3 shs Savage at 815@810 per foot, s 3.
2 shs Savage at 830 per foot, b 30.
1 sh Savage at 835 per foot, s 15.
12 shs Crown Point at 500 per foot, s 3.
8 shs Crown Point at 490 per foot.
8 shs Crown Point at 500 per foot, b 3.
48 shs Alpha, G. H. at 230@205 per ft.
8 shs Alpha, G. H., at 200 per foot, s 30.
4 shs Alpha, G H, at 210 per foot, b 10.
8 shs Alpha at 208 per foot, s 5.
4 shs Empire M & M Co. at 260@250.
145 shs Wide West at 7 per share.
25 shs Overman at 60@62½ per foot, b 30.
13 shs Overman at 60 per foot.
60 shs Imperial at 116@117½ per share.
15 shs Imperial at 116 per share, s 3.
5 shs Imperial at 118 per share, b 10.
100 shs Imperial at 115 per share, s 30.
20 shs Bullion at 33 per share.
15 shs Bullion at 32 per share, s 30.
10 shs Cal Steam Nav Co at 59¼ per ct, b 3.
$4,000 S F 7 P cent Bonds (S. J. R. R., at 71¾

AFTERNOON SESSION.

36 shs Ophir at 352½@370 per foot.
30 shs Ophir at 375 per foot.
24 shs Ophir at 395 per foot, b 10.
10 shs Chollar-Potosi at 155 per foot, s 3.
3 shs Chollar-Potosi at 147½ per foot.
5 shs Chollar-Potosi at 155 per foot, s 10.
12 shs Chollar-Potosi at 162@162 per foot.
1 shs Yellow Jacket at 552½ per foot, s 3.
2 shs Yellow Jacket at 570@580 per ft, s 30.
1 sh Yellow Jacket at 570 per foot.
1 sh Yellow Jacket at 570 per foot, s 5.
2 shs Yellow Jacket at 560 per foot, b 30.
4 shs Yellow Jacket at 550@540 per ft, s 30.
40 shs Alpha, G. H., at 240@250 per foot.
4 shs Alpha, G. H., at 240 per foot, s 20.
2 shs Hale & Norcross at 300 per foot.
75 shs Imperial at 115@118 per share, cash.
25 shs Imperial at 118@119 per share.
20 shs Imperial at 120 per share.
5 shs Imperial at 122½ per share, s 3.
55 shs Imperial at 124@122 per share.
15 shs Imperial at 120 per share, s 3.
70 shs Imperial at 121@121½ per share.
15 shs Imperial at 120 per share, s 10.
10 shs Imperial at 121 per share, b 5.
65 shs Imperial at 118@117 per share, s 10.
10 shs Imperial at 121 per share, s 3.
5 shs Bullion at 32@33 per share.
22 shs Overman at 60@65 per share.
5 shs Overman at 65 per foot, s 10.
10 shs N B & Mission R. R. at 41 per share.
Amount of sales.....$148,364 00

Friday, December 29.

6 shs Cal Stem Nav Co at 59¼ per cent.
12 shs Yellow Jacket at 580@560 per foot,
8 shs Yellow Jacket at 560@450 per foot.
9 shs Yellow Jacket at 555@540 per foot.
180 shs Ophir at 370@355 per share.
2 shs Yellow Jacket at 550@520 per ft, s 20.
20 shs Wide West at 8 per share.
30 shs De Soto at 6¾ per share.
51 shs Imperial at 120@124 per share.
15 shs Imperial at 122 per share, s 30.
155 shs Imperial at 122@132 per share.
100 shs Imperial at 127@138 per share, s 30.
60 shs Imperial at 130@131 per share.
35 shs Imperial at 130 per share.
5 shs Chollar-Potosi at at 115@172½ per ft.
4 shs Ophir at 360@330 per foot.
1 sh Belcher at 175 per foot.
24 shs Alpha, G. H., at 360@245 per foot.
28 shs Crown Point at 510@520 per foot.
70 shs Bullion at 33@34 per share.
12 shs Hale & Norcross at 285@270 per foot.
8 shs Hale & Norcross at 260 per foot, s 30.
12 shs Hale & Norcross at 280 per foot, b 30.
64 shs Overman at 77½ per foot.
5 shs Overman at 75 per share, s 30.
43 shs Overman at 80@72½ per share.
25 shs Sierra Nevada at at 7@7¼ per share.
13 shs Empire M & M Co. at 250@240 per sh.

AFTERNOON SESSION.

7 shs Imperial at 120 per share.
25 shs Imperial at 118½@129 per share.
46 shs Imperial at 131 per share.
10 shs Imperial at 129 per share, s 15.
6 shs Hale & Norcross at 290@280, s 30.
14 shs Hale & Norcross at 280@275 per foot.
1 sh Hale & Norcross at 180 per foot.
1 sh Hale & Norcross at 290 per foot, b 30.
7 shs Yellow Jacket at 580@580 per foot.
2 shs Yellow Jacket at 240@250 per foot.
5 shs Ophir at 364 per foot, s 10.
1 sh Ophir at 340 per foot, b 20.
1 shs Gould & Curry at 925 per foot.
4 shs Crown Point at 530@535 per foot,
1 sh Crown Point at 520 per foot, s 30.
10 shs Wide West at 8¾ per share.
15 shs Chollar-Potosi at 175@177½ per foot.
10 shs Chollar-Potosi at 175@176 per ft.
10 shs Chollar-Potosi at 175 per foot, s 10.
5 shs Chollar-Potosi at 170 per foot, s 30.
130 shs Sierra Nevada at 10@9 per share.
10 shs Spring Valley W W Co at 56 per ct.
22 shs Overman at 70@68 per foot.
75 shs Bullion at 34½@38 per share.
45 shs Bullion at 40 per share, b 30.
25 shs Bullion at 40 per share.
1 sh Alpha, G. H., at 240 per foot.
112 shs Exchequer at 7@8 per share.

Mining Summary.

CALIFORNIA.

SHASTA.—The Highland Company's last clean up, after a two weeks' run, netted $4,052.

The indefatigable Whiskytown company, which discovered and is prospecting the Knickerbocker lode, has discovered another lode on the hill on the south side of Whisky Creek. The rock is richer at a depth of nine feet than the Knickerbocker, and the lode is about sixteen inches in width, and well defined.

PLUMAS.—The Crescent company, says the *Union*, is crushing quartz from the Premium ledge, running twelve stamps on that rock, and it is averaging over $40 to the ton.

YUBA.—The Marysville *Appeal* complains that the Sacramento *Bee*, in an article on the mines of California, passes by Yuba as if it had no mines. It forgets our rich quartz mines at Brown's Valley, and that we have the best paying hydraulic claims on the Pacific coast. The Jefferson mill, at Brown's Valley, is paying larger relative dividends than any Nevada mine, and the hydraulic claims at Smartsville are yielding more gold annually than any mine in the State ever produced.

NEVADA.—We learn from the Grass Valley *National* that the Cambridge mine, adjoining the Lucky, has been sold to a New York company for twenty-four thousand dollars. The late owners, who have sold, are Con. Reilly, John Therny, Eugene Bogan, William White and brother, and P. Donnelly and brother. The mine is undoubtedly a rich one. The late developments in the "Lucky" have greatly added to the market value of the Cambridge, the purchase of which by the New York party may be considered a fortunate operation.

The Nevada *Transcript* says that F. Tilton, Esq., has sold a one-sixth interest in the Star Spangled Banner claim to C. Chandler, for $10,000. The purchaser was offered an advance of $1,000 on his purchase before he had it twenty-four hours. This mine continues to improve.

The Enterprise Company, at Sacramento city, are progressing finely with their new mill. Splendid ore is being taken from the bottom of the shaft. The company expect to declare their first dividend in February or March.

The mill of the California Mill and Mining Company is at work, and a clean-up will shortly be made.

The Territorial *Enterprise* says that the Enterprise company is already "well up in the figures," and that a foot of the claim was sold a few days since for $250, cash.

The Pacific claim of 1,000 feet, recently located, is showing some fine rock. As soon as the location was made the locators commenced work by taking out eighteen tons of rock, which they shipped to the French mill, at Nevada, Cal., and had worked, and the result was $1,310. A party of New York capitalists, says the Virginia *Union*, have offered $40,000 for the entire claim, but the company will not dispose of it for any such money. Mr. Myers is making preparations to work the claim early in the spring.

A letter from Summit City, dated Dec. 17th, says that the snow was eighteen inches deep, the weather fine; that the California mill is running regularly, and the work on the Winton mill is being pushed ahead rapidly, and will soon be ready for crushing.

SIERRA.—River mining, says the *Messenger*, is not quite suspended. Notwithstanding the freezing temperature, we notice that a crowd of Chinamen are at work below the bridge, laying out new enterprises in a mining way.

A Newark correspondent writes the *Messenger* that the Swift Sure, Nevada, North America, and Phœnix companies have taken out immense sums this summer and fall.

The Swift Sure company has been running for the last eight years, hardly paying expenses until within the last twelve months, when they struck the lead, and it is now one of the richest claims in the county. Its success is principally due to the untiring energy of Miles Scofield, the foreman and principal proprietor. He stuck to it from first to last, and Fortune at last crowned his perseverance.

PLACER.—The Auburn *Stars and Stripes* of December 20th, says that Mr. A. Harpending, of the Baker claim, at Whisky Diggings, from four days' run of his new mill of three stamps, took yesterday thirty-five pounds of hard amalgam. The rock crushed was a rotten quartz and slate. The ledge is 300 feet wide and 1,000 feet long, and is believed to be rich throughout its whole extent.

Mr. E. D. Barnes, Esq., of San Francisco, recently paid $10,000 for five-sixths of the Powell claim (gravel diggings), Placer County.

ALPINE.—The Silver Mountain *Bulletin*, in noticing the difference in the mining prospects of that district now and one year ago, says that where there were then employed twenty men, only, they now have as follows: In Silver Mountain District, 75 men working on shafts and tunnels; in Raymond Dist., 20; in Alpine Dist., 4; Summit City, 12; Mogul, 12; Monitor, 20; Silver King Dist., 6; making a total of 156 men.

The agent of an English company was recently on a visit to Alpine county, and expressed himself much pleased with the mineral indications of the district.

The Mendocino lode, located in Scandinavian Cañon, about one and one-half miles from Silver Mountain, has been purchased by B. Pilkington, Esq., who is acting as general agent for the Illinois and California G. and S. Mining Company. This company have large and valuable interests in Raymond District, about three miles from town, and judging from the operations of the company, under Mr. Pilkington's management, we are gratified to know that the Mendocino has passed into hands that will develop it immediately.

We learn from the Monitor *Gazette* that Capt. Collins, Superintendent of the Active Mining Company, is working all the force which he can put on to advantage. He expresses himself as much pleased with the prospects of the mine. The mill will be put up and made ready for running at as early a day as possible. The *Gazette* thinks the company will have cause to congratulate themselves on the choice of a manager.

A controlling interest in the Mayer company has passed into the hands of E. Arnold, Esq., the proprietor of a new desulphurizing process, already noticed in this paper. Mr. A. will proceed at once to open the vein and work the rock by his process.

A controlling interest in the Santa Eulalia Co. has been purchased by a Virginia (Nev.) company, and the work of development will be pushed vigorously.

The American T. and S. M. Company are getting under ground rapidly with their tunnel, the length being now 140 feet. Some very good ore has been taken out during the past week, from small veins and feeders, which become more numerous and larger as the ledge is neared. The St. Helena Company are about ready to cut their vein by a drift from their shaft to test the same. The claim is supposed to be an extension of the I X L and Buckeye.

CALAVERAS.—A correspondent of the Copperopolis *Courier* speaks highly of the present condition and prospects of the mines in Salt Spring Valley. The claim of Mr. John Hisenberger is spoken of as turning out very good looking rock, worth from $30 to $35 per ton. The Pine Log claim, near by, looks equally well. The Otis claim, owned by McKinsey & Co., is constructing an arastra, with the view of testing his claim, which good judges think will pay $200 per ton—from picked rock, we presume. The Esperanza Co. lately erected a 10-stamp mill, at the last crushing of which 20 tons of rock from their claim—the Alban Ranch claim—yielded 75 ounces of amalgam. The mill has since been idle; from what cause is not stated.

A correspondent of the San Andreas *Register*, writing from Murphy's, thinks it very singular that that section of the State should receive so little attention from capitalists seeking quartz claims. They have there numerous claims which have yielded well—from $25 to $150 to the ton from surface rock—the rock has been hauled to Angel camp. A small mill is greatly needed there, with all the late improvements for saving gold. One was recently commenced, but fell through for lack of means to finish it. A controlling interest in the mill, as it stands, can be obtained on very liberal terms by any party who will undertake to complete it.

A West Point correspondent of the Calaveras *Chronicle* writes that some fine lodes are located in Cedar Gulch, two miles from town; one in particular, which some time since paid from $30 to $40 in an arastra, has recently been purchased by Dr. Foster & Co., for a mere nominal sum, which now prospects, on further developments, as high as $150 to the ton. A mill will be erected on the same. Mr. Treppaniers, on the North Fork of the Mokelumne, has a splendid lode, from which a large quantity of rock has been taken. There are other good lodes in the neighborhood which afford fine opportunities for investments, for any persons who will undertake their development.

MARIPOSA—COPPER SMELTING.—According to the Mariposa *Free Press*, reports from Hamilton District concerning copper prospects still continue to be favorable. Several thousand pounds of the metal have been smelted during the last two weeks at the works of Heury & Co., ready for shipment. Quite a little town is springing up in the locality of these works at James' Ranch. Mr. Haskell has completed his smelting works at the Buchanan vein, five miles from James', and we understand is turning out copper at a rapid rate. The Buchanan is considered one of the best veins in the district, and bids fair to be a fortune to its lucky owners. We are glad to hear this; for the claim is owned by a clever, hard-working set of gentlemen.

AMADOR.—The Railroad quartz claim, located at Sutter Creek, says the Amador *Ledger*, is "proving" well. Last week they "cleaned up," and the proceeds realized a dividend of one hundred dollars to the share, after paying all expenses, and left a surplus in the treasury.

TULARE.—Ex-Governor Bigler has recently made a purchase of thirty-six quartz lodes, at Clear Creek, for an Eastern Company, at the very low price of $75,000. The purchase includes the Rhone, Lyon, and Rockfort—each of which, says the *Delta*, are rich paying lodes.

ESMERALDA.

The *Union* says that the managers of the Oxford Beta Tunnel Company are prosecuting their work with much energy, day and night; and while many other companies in a similar situation have become discouraged, and, in many instances, suspended operations, the Oxford Beta has been steadily worked, not having missed a day's work since its commencement, now nearly two years ago. The tunnel is in 600 feet, through the hardest rock to be found in this vicinity. Under the supervision of Mr. Lytle, who works in his turn with the men (such are the kind of superintendents we need to develop our mines; the kid-glove class are "quite showy on parade," but wont do when it comes to actual service), and superintends the work himself, a progress has been attained at a little over half the usual cost. The present indications are encouraging, and ere long the tunnel must cut the main mother ledge of this camp, at a depth that will warrant success, and bountifully reward the indomitable energy they have displayed in the prosecution of the work.

The Home Stake mill is completed, and the company have a large quantity of very rich ore out, which will, no doubt, speak for itself.

The Wide West shaft is progressing finely. The company have put in a pump which answers every purpose, in freeing the shaft of water.

The County Assessor's report, for Esmeralda, contains a list of mills, with their cost, power, number of stamps, etc., which we shall give more at length in a future issue. The mills are eighteen in number.

HUMBOLDT.

Important Sale.—The *Register* says that J. C. Fall, Esq., a pioneer Humboldter and a most energetic business man, has for the past year been in New York city, negotiating for the material wherewith to develop some of the many rich ledges which have been placed in his hands for that purpose. Many of those who have for years held on to good claims, endeavoring with small means to bring them in proper light before the men who have money, have found their efforts unavailing. To open even the richest silver mine requires coined money with which to operate. Mr. Fall has succeeded in engaging means for this purpose in several cases. He has about concluded negotiations for the Cauble Company's claim, Union Series—silver; also for the Diadem claim—rich in gold; and the Essex—a fine-looking silver ledge.

Messrs. Stratford & Ewing are putting work ahead in the Essex and Diadem, and they assure us that development is realizing the hopes the croppings induced. The Diadem is supposed to be an extension of the well-known Monroe ledge, which is probably the richest gold-bearing ledge in the State. Work is to commence forthwith on the Union Series. These ledges contain black sulphurets, similar to the ore of the Gem mine, in the same mountain.

The Silver Bullion Series, a fine claim in Indian District, has been disposed of—the management, at least—to an Eastern company. The claim consists of 1,050 feet in each of three parallel ledges, presenting well defined walls, and cropping out the entire length of the claims. This is pronounced a very promising mine.

Much interest is felt in the development of the Montezuma mine. It is said to be one of the heaviest bodies of argentiferous ore, apparently, in the State, and the center around which depend a hundred other veins of similar character. Its development is anxiously looked for by those who own these other ledges. Mr. J. S. Henning, C. E., has made a careful examination of the ledge, and reports favorably.

The War Eagle is a newly reported discovery, which is creating considerable talk.

IDAHO.

According to the Owyhee *Avalanche*, rich strikes, new discoveries and developments are so frequent that it is impossible to record them within the space in that paper which can be devoted to such matters.

This week, says the *Avalanche*, a mass of silver, streaked with a little quartz, was found in the Rising Star mine, Flint District. The silver is as pure as the assayed bars, and the celebrated Poorman is, in comparison, an ordinary ledge. The Morning Star mine is yielding immensely rich ore. The ledge, at the point from which the ore is now being taken, is one solid mass of black silver, the latter predominating. The original Hays & Ray is yielding ore of the same character, and equal in richness with the Poorman.

The masonry for Cosmos mill is about ready for the building. This company exhibit unusual energy and activity. Mr. Dewey, who is agent and general superintendent of the company, arrived from the East a few days ago, and is highly pleased with the "situation."

The Tennessee ledge is spoken of as being very promising. It is four feet wide, and assays from $75 to $125 per ton. The dirt which comes from the shaft is full of fine gold. Select a panful anywhere, and by carefully washing it a thousand very fine particles are obtained. A tunnel of 400 feet will tap the ledge at the same depth. The owners have a valuable mill site on Castle Creek, adjacent to the ledge.

The Shoenber mill is a perfect success. Its construction was commenced in July last, and it was completed on the 17th of November. It has two of Knox's improved iron batteries, five stamps each. The crushing capacity is 25 tons per 24 hours; it contains eight vats and eight amalgamators. Of the latter, four are J. M. Beath's patent, and four of Knox's. The mill is correspondingly supplied with agitators and concentrators. The engine is twenty-five horse power, and the machinery is propelled by one-half the force. A. F. Mœlla is chief engineer, and personally superintended the erection of the steam works. Mr. Mœllar stands at the top in his profession, and was many years employed by the Russian government on the public works in their American possessions. The amalgamating department is under charge of Capt. J. F. Miller.

Since our last, the foot-hills have been thronged with prospectors for diamonds, and for once have given quartz a brief respite. Among them may be numbered some of our most substantial citizens, and from the best information we can obtain, there is no certainty that the genuine gems have yet been found, but magnificent crystals have been, answering to the BOOK description. The hardest file fails to make an impression on them. The country is volcanic, and there is no reason to doubt their existence.

A correspondent of the Virginia *Union* writes thus from Ruby City, Idaho: There are eight quartz mines here, of eight and ten stamps each, busy at work. The Star Mill is engaged in crushing rock from Whisky ledge. One other mill belongs to the Oregon Steam Navigation Company, and is working ore from the Oro Fino Ledge. The others are crushing ore from the Poor Man's Ledge. There has been quite a number of locations of quartz leads made around this section; all of which are, in my opinion, good, but the great difficulty is the want of capital to develop them. The placer diggings do not amount to much; everything is quartz; people have it on the brain as bad as they did in Washoe in 1863. I expect to see Owyhee equal Virginia in population and wealth in two years.

VIRGINIA CITY AND VICINITY.

We have few items of particular interest, the past week, from this region. The Virginia *Enterprise* is publishing the reports of the different County Assessors as they come in. These reports contain a large amount of reliable statistical information in relation to the mines and mining interests of the State of Nevada, which we presume will soon be tabulated and placed before the public in a condensed form, when we hope to be able to use it.

Strike in the Yellow Jacket.—The *Enterprise* of Wednesday says that a vein of astonishingly rich ore has been struck in a shaft sunk in the 445 foot level of the mine. The stratum of ore is three feet in width and shows both free gold and native silver. A number of tons of this rich ore has already been taken out and sacked.

The Virginia City *Union* gives a very flattering account of the mining prospects of La Plata. Two mines are being worked. The first has been explored by an incline to the depth of 190 feet, and the ledge opened, showing it to be about four feet wide, with well defined casings. The rock assayed in the surface works from $288 to $1,200 per ton. That found in the incline, at the depth of 190 feet, bears the same character, and 200 tons are on the surface, which is about to be treated in the mill. The La Plata has not been explored to so great a depth; but the shaft discovers a ledge two feet in width, the quartz containing respectable quantities of the yellow bromide of silver.

MR. GOUGH says we sometimes wonder at the incivility of railroad conductors and post office clerks; while if we could know all the petty annoyances to which they are subjected, and the silly questions constantly asked of them by ignorant, stupid, and nervous people the wonder would be that they can be civil at all.

Mining and Scientific Press.

W. B. EWER,.....SENIOR EDITOR.

C. W. M. SMITH. W. B. EWER. A. T. DEWEY.

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Payment in Advance.—This paper will not be sent to subscribers beyond the term paid for. The publishers well know that a good journal cannot be sustained on the system.

San Francisco:
Saturday Morning, Dec. 30, 1865.

A State Mining Convention.

Pursuant to the request of several mining journals and representative mining individuals, the association known as the "California Mining Bureau," of San Francisco, through their Board of Trustees, have issued the following call for a Mass Convention of the miners of California:

RESOLVED, That a Mass Convention of the miners of the State of California, be and is hereby called to assemble in the city of Sacramento, on WEDNESDAY, the 17th of January, A.D. 1866, at 12 o'clock, and that any person engaged in actual mining operations shall be eligible to a seat in said Convention.

JOSEPH W. LOW, Vice-President.

J. D. WHITCOMB, Recording Secretary.
San Francisco, December 6, 1865.

THE NOVEMBER METEORIC DISPLAY.

Professor Newton, of Yale College, New Haven, with three other gentlemen, counted 430 shooting stars, during a space of 150 minutes, on the evening of November 13th. The time of observation commenced at five minutes before four o'clock in the morning. Of the number, 360 moved in paths diverging from the constellation Leo, and are therefore presumed to belong to the November group. The remaining seventy were moving in other paths, and are such as we see every night. The Professor says that—

"A large proportion of the meteors left phosphorescent trains. Three or four of these trains lasted over a minute. One star, which appeared to explode with a splendid green flame, left a track which slowly shortened itself, and floated away to the north, curling itself up into a crescent. The motion was not rapid to the eye, but as the train was probably as much as seventy miles high, the wind which carried it must have been blowing fifty or one hundred miles an hour. He expected to see as many more the next morning if the clouds did not prevent."

These meteors were doubtless all seen in the extreme outer confines of the earth's atmosphere; although the probable distance of only one is given—"seventy miles high."

Appropriate to the above, we would state that we placed the *memoranda* of the Santa Barbara meteor, which was seen throughout the central portion of this State on the 12th of July last, in the hands of Professor Jackson, just previous to his leaving for the East. We received a letter from him a short time since, in which he says: "I have computed the Santa Barbara meteorite, and find it to be 45½ miles above the earth.

THE DISPLAY AS SEEN FROM VIRGINIA.

The Richmond *Times* of November 14th, speaks of the display in that vicinity, in the following language:

One of the grandest meteoric exhibitions which the people of this section have witnessed for a number of years, occurred on Sunday night, lasting from about ten o'clock P. M. till between three and four o'clock yesterday morning. During the whole of this time the heavens were lit up by innumerable shooting stars, frequently leaving trails behind them so brilliant as to light up the streets for several seconds, and gradually fading away like the sulphurous stroke of a lucifer match when scraped upon the wall in a dark room. Cannot some of our celebrated savans, who have given the subject consideration, explain this phenomenon.

REESE RIVER.

We learn from Dr. DeGroot, and other sources, that favorable reports are constantly coming in from the outside districts of Reese River, especially to the south of Austin, where the lodes appear to be larger and equally numerous, and as rich as in the immediate vicinity of that city. The wild and speculative excitements which have hitherto prevailed in Reese River, though to a less extent there than in Virginia City and vicinity, have now pretty much passed away, and the mining interest is assuming the appearance of permanent prosperity, with evident indications of a more business-like management in future. Eastern capital is flowing in abundantly, to aid in the development of the mines, and it is generally accompanied with a careful, though energetic superintendence, which speaks well for the future.

The Eureka District, seventy-five miles to the eastward of Austin, has recently been discovered by Mr. A. Monroe. It is described as a very promising mineral region. The ores are said to be of a class which can probably be most economically reduced by smelting, and for this purpose large supplies of timber everywhere abound, interspersed with good farming and grazing land.

The White Pine District is also a recent discovery, its precise location at first being kept a secret, but it is now known to be about ninety miles southeast of Austin. Many of the ledges are said to be of gigantic proportions, generally well defined with bold outcroppings. Those which have proved the richest under tests are from six to eight feet thick. They yield both gold and silver. A correspondent of the *Reveille*, in company with Prof. Widney and T. J. Murphy, has recently visited the district and given it a cursory examination. The professor declares it to be one of the most remarkable in that region. The mountains for miles around are covered with a heavy growth of white pine of mammoth dimensions. About 100 ledges have been recorded, and a town laid out, which the correspondent of the *Reveille* thinks may eventually become a rival to Austin.

The mines in the Yankee Blade and Amador neighborhoods are being rapidly developed and proving themselves worthy of attention. Through the remarkable Yankee Blade basin, says the *Reveille*, are many hundreds of veins, of various sizes, running in all directions, all of which appear to be productive. The county rock is a soft granite. The mines of this district are in a rapid progress of development. At Amador affairs are also said to be rapidly improving. The mill of the Coral and Vanderbilt Co., is nearly completed. This mill will reduce their rock by the use of one of Gardner's Crushers, instead of stamps. The mill is said to have worked exceedingly well, experimentally, in New York. The superintendent of this company will confer a favor upon us and the mining public by sending us a report of the working of this new crusher, after it shall have been thoroughly tested.

Copper Mines.—The *Reveille* thinks that none of the copper mines yet discovered in Central Nevada will pay for working, or prove of any value until the facilities for constant and low transportation are afforded. But when the day of the railroad arrives, with its cheap and uninterrupted communication with the east and west, the copper mines of that region will constitute one of its chief sources of wealth.

We have before us a large number of "clippings" from the *Reveille*, showing the progress of the various mines in and around Austin, the aggregate of which evinces a most commendable degree of energy in the development of the individual interests. We have space this week for the following only, which we have also been obliged to greatly condense:

The Silver Chamber has recently been sold to Eastern capitalists, who have appointed Mr. J. W. Varney as their superintendent. Under his charge has also been placed, by the same company, the Mollitor, Osceola, Eastland, Maximilian, and San Jose. Work will be resumed on three of these claims immediately. The Ware mill, in Cedar Ravine, for a long time closed, will be opened and put in operation by Mr. Varney, and will be supplied with ore from the company's mines. The Silver Chamber is said to be a very valuable mine; numerous small lots of ore have been worked with a yield of from $1,000 to $1,700 to the ton. The vein is well defined, being from one to four feet in thickness.

The Tesoro mine is turning out some very rich rock, where the vein has just been struck at a depth of 100 feet. The ore is remarkably heavy, and covered with iodide of silver, and it is estimated that it will assay as high as $300 to the ton. This quality of ore is fourteen inches thick in the large vein of the Tesoro.

The Sterling company's mill is finished, and is pronounced one of the finest in Reese River, although there are others of more magnificent proportions. It has been constructed under the management of Mr. Daniel P. Bell.

NATIVE IRON.—Near Dog Valley Hill, on the Henness Pass route, says the *Territorial Enterprise*, is a large vein of quartzose rock, which has puzzled our miners ever since 1860. In 1861 a company took up a claim, but could not make out what it contained, and returns from rock sent to California for assay were very contradictory and unsatisfactory. The ore contained a malleable metal which some supposed to be platina, and for a time there was a good deal of excitement among owners about the lead. The claim finally passed into other hands, and the new owners determined to find out what their ore contained, sent a quantity to Rickard & Wiegand, assayers, at Gold Hill, for chemical analysis. The result shows the rock to contain a small per cent. of gold and silver and a very considerable quantity of native iron, something rarely seen. This was the malleable metal which had so long puzzled the prospectors. Although those who located the mine may not have fortunes in it, they have the satisfaction of knowing that they have discovered something new, and have got rid of one mining perplexity. Hereafter they will not bother their brains about native iron.

HUNTER'S CONCENTRATOR.—Our attention has been called to the following testimonials concerning the satisfactory working of this noted machine. Our miners generally are in need of more simple machinery for saving gold, and we cheerfully give Mr. Hunter's invention the benefit of these statements from practical operators:

SAN FRANCISCO, Nov. 18, 1865.

I have concentrated about four tons of tin ore in Hunter's Concentrator. It worked perfectly satisfactory, both for quantity and quality, and I can recommend it for the concentration of all kinds of ores. JAMES WALSH.

GRASS VALLEY, Dec. 18, 1865.

This is to certify that one of Hunter's Concentrators is now running in the Empire Mill, Ophir Hill, Grass Valley. The capacity of the machine is from five to seven tons per day, separating the sulphurets in the most perfect manner. The machine requires scarcely any attention; about one-sixth of a horse power is sufficient to run one machine. We freely recommend it as the only perfect concentrator we have ever seen, and it fully meets with our most sanguine expectations.

S. W. LEE,
Sup't Empire Co.

We are informed that the concentrator at the Empire Mill is now taking the sands of two batteries, which it will continue to work until another machine, already ordered, can be forwarded to the mine from this city.

ANNA CARINGHER, of San Francisco, has sued Wm. Daniels, of Grass Valley, for breach of promise and seduction, and asks the Court to give her $100,000 damages.—*Ex.*

Mr. Daniels is one of the proprietors of the famous Allison Ranch mine, and is a nice bush for Anna to beat; but will she catch the bird?

BRIDGING THE MISSISSIPPI AT ST. LOUIS.—On Monday last a bill was introduced into Congress to bridge the Mississippi river at St. Louis. So the telegraph reports.

MINING AND SCIENTIFIC PRESS

PATENT AGENCY.

For the Pacific Coast.

OFFICE OF THE MINING AND SCIENTIFIC PRESS—No. 505 Clay street, corner of Sansome, San Francisco.

Information for Inventors!

Inventors on this coast having their applications for patents made out through our Agency can sign their papers at once, and thus secure their rights at least three months sooner than by trusting the same to distant agencies, situated in New York or Washington.

The first question that presents itself to the inventor, who desires to procure a patent, is: "Can I obtain a patent?" A positive answer to this question is only to be had by presenting a formal application for a patent to the Government, embracing a petition, specification, model, duplicate, drawings, and the payment of the prescribed official fees. Aside from these steps, all the inventor can do is, to submit his plans to persons experienced in the business of obtaining patents, and solicit their opinion and advice. If the parties consulted are honorable men, the inventor may safely confide his ideas to them, and they will inform him whether or not his invention is probably patentable.

Those who have made inventions and desire to consult with us respecting the same, are cordially invited to do so. We shall be happy to see them in person at our office, or to advise them by mail, or through the MINING AND SCIENTIFIC PRESS. In all cases they may expect from us an honest opinion. For these consultations, opinion and advice, we make no charge. A pen-and-ink sketch, and description of the invention should be sent together with a stamp for return postage. Write plain; do not use pencil or pale ink; be brief.

Remember that all business committed to our care, and all consultations, are kept by us secret, and strictly confidential.

Caveats.

A Caveat is a confidential communication made to the Patent Office, and is therefore filed within its secret archives. The privilege secured under a caveat is, that it entitles the caveator to receive notice, for a period of one year, of any application for a patent subsequently filed, and which is adjudged to be novel, and is likely to interfere with the invention described in the caveat, and the caveator is then required to complete his application for a patent within three months from the date of said notice. Caveat papers should be very carefully prepared. Our fee for the service varies from $10 to $20. The Government fee under the new law is reduced to ten dollars; and this sum does not apply, as heretofore, as part of the fee on presenting an application for a patent.

Inventors will oftimes find it very important to take advantage of the caveat system—the expense under the law being comparatively small.

To enable us to prepare caveat paper, we only require a sketch and description of the invention; no model being necessary.

Expense of Applying for a Patent, Rejections, etc.

Under the new law, the Government fee, on filing an application for a patent, is fifteen dollars; and if the patent is allowed, twenty dollars additional is required. If rejected, the first fee of fifteen dollars is all that is demanded. English, French, Austrian, Prussian Spanish, and inventors of every nationality, may receive patents in the United States upon the same terms as our own citizens. The only discrimination made is against subjects of government that discriminate against the inhabitants of the United States.

To the foregoing official fees must be added the Attorney's fees for preparing the various documents and drawings. Our charge for preparing a case, presenting it to the Government, and attending to all business connected with it, until a decision is given, is from $20 to $40. If the patent is granted no further agency expenses ensue. If the application is rejected we cause a thorough investigation to be made into the reasons presented to the Commissioner for refusing the patent. In making this examination, our Washington agent has access to all the drawings, models, books and specifications cited in reference, and we report the result as early as possible to our client.

If the rejection proves to be an unjust one—which sometimes happens—it can generally be reversed, and the patent obtained by contesting the case. For this prosecution we charge a fee proportionate to the extra labor and responsibility only on the issue of the patent; but our demand will be reasonable and satisfactory to our clients, and will be arranged beforehand by special agreement.

The system adopted by us works well, gives general satisfaction and presents to all applicants, rich or poor, an equal opportunity of having their patent cases prepared, conducted and prosecuted in the best manner, by experienced attorney's, upon the most moderate terms. Inventors who have rejected cases, prepared either by themselves, or for them by other agents, and desire to ascertain their prospects of success by further efforts, are invited to avail themselves of our unequalled facilities in securing favorable results. We have been successful in securing Letters Patent in many cases of such a nature. Our terms for such cases are very moderate.

Models, Remittances, etc.

The law requires that the inventor shall, in all cases, furnish a model, which must not exceed twelve inches in any of its dimentions; it should be neatly made, of hard wood or metal, or both, varnished or painted; the name of the inventor should be engraved or painted on it conspicuously.

When the invention consists of an improvement on some known machine, a full working model of the whole will not be necessary. It should be sufficiently perfect, however, to show, with clearness, the nature and operation of the invention.

As soon as the model is ready, it should be carefully boxed and shipped by express or otherwise, to our address, namely: DEWEY & CO., Mining and Scientific Press, No. 505 Clay Street, corner of Sansome, San Francisco, Cal. Prepay expenses and send express receipt to us by mail.

Simultaneously with the model, the inventor should send us the first installment of the Government fee, fifteen dollars. The money may be forwarded either by express with the model, or by mail. The safest way to remit is by draft on San Francisco, payable to our order. Always send a letter with the model, and also the remittance stating the name and address of the sender.

A full description should also be sent with the model, embodying all the ideas of the inventor respecting the improvement.

On the receipt of the model and Government fee, the case is duly registered upon our books, and the application proceeded with as fast as possible. When the documents are ready, we send them to the inventor, for his examination, signature and affidavit, with a letter of instruction, etc. Our fee for preparing the case is then due and will be called for. The case will then be presented to the Patent Office, and as soon as the patent is ordered to be issued the Government fee, namely, twenty dollars.

Inventors who do business with us will be notified of the state of their application in the Patent Office, whon it is possible for us to do so. We do not require the personal attendance of the inventor, unless it is one of great complication; the business can be well done by correspondence.

When the invention consists of a new article of manufacture, or a new composition, samples of the separate ingredients, sufficient to make the experiment, and also of the manufactured article itself must be furnished.

The average time required to procure a patent, when the case is conducted at our agency, is three months. We frequently get them through in less time; but in other cases, owing to delays on the part of officials, the period is sometimes extended to four or five months, and even more. We make a special point to forward our cases as rapidly as possible.

Patent Office Fees, and How Payable.

Nearly all the fees payable to the Patent Office are positively required by law to be paid in advance.

The following is the Government tariff of fees established by law:

On every application for a design, for 3 y'rs and 6 mos...	$10
On every application for a design, for seven years.....	15
On every application for a design, for fourteen years.....	30
On every application for a patent, for seventeen years...	15
On every caveat.....	10
On issuing each original patent.....	20
On filing a disclaimer.....	10
On every application for a re-issue.....	30
On every additional patent granted on a re-issue.....	30
On every application for an extension.....	50
On the grant of every extension.....	50
On appeal to the Commissioner from Examiners-in-chief	20
On every appeal to the Judges of Circuit Court, D. C....	25

We have had successful experience in conducting these appeals and our services are rendered on moderate terms.

N. B.—We make out our own forms for applications, etc., and would respectfully inform all parties that we have no printed blank forms for sale.

DEWEY & CO., Agents,

Mining and Scientific Press Office, No. 505 Clay street, corner of Sansome, San Francisco.

MINING SHAREHOLDERS' DIRECTORY.

List of Notices of Meetings, Dividends, Assessments and Delinquent Sales.

Comprising the Names of Companies, District or County of Location, Amount of Assessment; Date of Meeting, Delinquent Advertisement and Sale, and Amount and Time of Payment of Dividends.

COMPILED FOR EVERY ISSUE.

Advertised in the Mining and Scientific Press and other San Francisco Journals*.

NAME AND LOCATION.	AM'T OF ASSESSMENT.	DAY ADV'G DELINQ'T LIST.	DAY OF SALE.
Animas, Durango, Mex.,	40c		Feb 3—Feb 19*
Arbitrios, Chihuahua, Mex.,	$1		Feb 3—Feb 15
Adams, Petroleum,	$5		Jan 11—Jan 25
Agawam, Nye co., Nev...			Annual Meeting, Jan 13*
Agawam, Nye co.,	$1		Jan 13—Jan 27*
Alhan, Storey co., Nev.,	$1		Jan 9—Jan 20
Arroyo Seco, Amador co.,	$4		Jan 3—Jan 17
Alpha, Storey co., Nev.,	$50		Jan 18—Feb 17
Adriatic, Storey co., Nev.			Annual Meeting, Jan 2
Baltimore American, El Dorado co.,	$2		Dec 20—Jan 3
Boston, El Dorado Co.,	50c		Dec 22—Jan 6
Buckeye, Lyon co., Nev.,	$3		Jan 3—Jan 20
Bullion,	$10		Levied—Nov 25
Bunker Hill, Amador co.,	$5		Jan 6—Jan 20*
Blue Ledge, El Dorado co.,	$1.50		Jan 13—Jan 27*
Bunker Hill, El Dorado co.,	$1.50		Jan 20—Feb 2
Buckeye			Annual Meeting, Jan 10
Caledonia Tunnel, Gold Hill, Nev.,	$2		Dec 23—Feb 3
Cole, Storey co., Nev.,	$1		Dec 21—Jan 6
Chicago, Lander co., Nev.,	$2		Dec 30—Jan 15*
Crown Lead, Mariposa co.,	$5		Dec 30—Jan 15
Chollar-Potosi, Storey co., Nev.,	$100		Jan 21—Feb 1
Central			Annual Meeting, Jan 2
Confidence, Storey co., Nev.,	$25		Jan 22—Feb 6
Cosala, Sinaloa, Mex.,	$1		Jan 29—Feb 10
Chollar-Potosi			Meeting Jan 8
Daney, Lyon co., Nev.,	$1		Jan 15—Jan 31
Diana, Lander co., Nev.,	$10		Jan 20—Feb 6*
Exchequer, Storey co., Nev.,	$2		Jan 17—Feb 1
Florida, Reese River,	$10		Jan 2—Jan 15
Franco-Americano, Mex.,	25c		Jan 26—Feb 9
Gold Hill Tunneling, Storey co., Nev.,	75c		Dec 15—Jan 3
Goodwin, Lander co., Nev.,	$2		Dec 16—Dec 30*
Great Western Tunnel Co., Aurora, Nev.			June 27—Feb 10*
Geo Washington, Alpine co.,	$1		June 27—Feb 13*
Hanscom, Copper, Del Norte co.,	15c		Jan 20—Feb 3*
Hornet, Lander co., Nev.,	$1		Jan 20—Feb 6*
Hale & Norcross, Storey co., Nev.,	$25		Jan 15—Jan 29
Honest Miner, Lander co.,	50c		Jan 13—Jan 29*
I. X. L., Alpine co.,	$3		Jan 2—Jan 16
Harmon			Special Meeting, Jan 3
Jeffrey Oil, Humboldt co.,	50c		Jan 4—Jan 15
Jura, Storey co., Nev.,	75c		Jan 2—Jan 15
Jewett, Storey co., Nev.,	$1		Jan 6—Jan 20*
Joe Lane, Lander co.,	50c		Jan 13—Jan 29*
Kentucky Copper, Calaveras co.,	$1		Jan 20—Feb 7*
Keokuk, Contra Costa co.,	10c		Dec 16—Dec 30
Kentuck, Storey co., Nev.,	$17.50		Jan 3—Jan 15
Kohler Bros., Mex.			Annual Meeting, Jan 8
Lady of the Lake, S. F. Dist., Arizona,	25c		Dec 30—Jan 18*
Leland, S. F. Dist., Arizona,	25c		Dec 30—Jan 18*
Lady Bell, Del Norte co.,	10c		Dec 18—Jan 5
La Victoire, Mariposa co.,	$2		Jan 3—Jan 22
Lady Franklin, Alpine co.,	50c		Jan 5—Jan 26*
Mina Rica de las Flores, Calaveras co.,	50c		Jan 2—Jan 22
Maggie, Lander co., Nev.,	$4		Dec 26—Jan 11
Mattole Creek Oil Co.			Annual Meeting, Jan 8
Napoleon, Calaveras co.,	$7		Jan 23—Feb 3
Nuestra Senora de Guadalupe, Durango,	$1		Jan 27—Feb 14
North American, Nev.	$6		Levied Nov 15
Nevada, Lander co.,	$1.50		Jan 13—Jan 29*
Nacosari			Annual Meeting, Jan 3
Napoleon			Meeting, Jan 3
Ophir			Adjourned Meeting, Jan 15
Overman, Storey co., Nev.,	$25		Dec 19—Jan 3
Orleans Quicksilver, Lake co.			Annual Meeting, Dec 30*
Old Colony, Reese River,	$6		Jan 14—Jan 27
Oxford Beta, Esmeralda co., Nev.,	50c		June 27—Feb 14*
Patrocina and Dolores, Chihuahua, Mex.,	75c		Dec 28—Jan 16
Paragon, Humboldt co.,	25c		Jan 6—Jan 26*
Peninsula, San Antonio, Lower Cal.,	$10		Jan 16—Jan 29
Rappahoe, Sinaloa, Mex.,	$2 50		Jan 17—Jan 31
Refugio, Chihuahua, Mex.,	$2½		Dec 27—Jan 9
Santa Cruz, San Antonio, Lower Cal.,	$3		Dec 29—Jan 10
Salambo, Tuolumne co.,	50c		Jan 3—Jan 22
Siempre Viva, Sinaloa, Mex.,	$2.50		Jan 6—Jan 20*
Sierra Nevada, Storey co., Nev.,	$3		Dec 28—Jan 15
Sierra Valley, Plumas co.,	$1		Jan 5—Jan 20
Santiago, Lyon co., Nev.,	$1		Jan 22—Feb 10
Sweet Vengeance, Yuba co.,	$1		Jan 20—Feb 6
Sierra, Douglas, co., Nev.,	$3		Jan 15—Jan 27
Sigel, Humboldt co., Nev.			Annual Meeting, Jan 8
Sierra Nevada			Annual Meeting, Jan 8
Shashono, Lander co., Nev.,	$1		Jan 29—Feb 12
Salamander, Calaveras co., Cal.,	20c		June 27—Feb 10*
Trinidad and San Jose, Sinaloa Mex.,	$10		Jan 8—Jan 22
Trita S M co.,	$3		Levied, Nov 25
Tuolumne Mountain,	50c		Dec 27—Jan 16
United States, Storey co., Nev.,	50c		Dec 16—Dec 30*
United States, Lander co.,	$1.05		Dec 30—Jan 15*
Union Mattole, Humboldt co.,	$5		Jan 19—Feb 6*
Wide West, Alpine co.,	$1		Dec 16—Dec 30*
Yellow Jacket, Storey co., Nev.,	$100		Dec 15—Jan 15
Yuba, Brown's Valley,	$2.50		Dec 16—Dec 30*
Yankee Blade, Reese River, Nev.,	$15		Jan 13—Jan 29*
Yosemite, Humboldt co., Nev.,	$1.25		Jan 20—Feb 6*
"420," Storey co., Nev.,	$6.25		Dec 28—Jan 13

*Those marked with an asterisk (*) are advertised in this journal.

ASSESSMENT AND SALE LIST

OF CLAIMS IN

VIRGINIA AND GOLD HILL DISTRICTS.

CORRECTED WEEKLY FROM LATEST DATES OF THE TERRITORIAL ENTERPRISE.

[This list embraces Companies advertised in Virginia City papers, most of which are not incorporated or advertised in San Francisco.

Assessments Levied.

Name of Company.	Date of Levy.	Am't per foot
Belcher	Dec 15	100 00
Belcher, Baldwin & Abernethy	Dec 15	100 00
Exchequer	Dec 16	2 00
Gold Tunneling	Dec 8	75
Hale & Norcross	Dec 16	25 00
Jura	Dec 7	75
Jewett	Dec 8	1 00
Milton	Nov 30	5 00
Sides	Dec 1	3 00
420, S. M. Co	Dec 1	6 20

Delinquent Sales.

Name of Company.	Date of Sale.	Place of Sale.
Globe	Dec 30	Virginia
North Comstock	Jan 13	Virginia.
Utah	Jan 3	Virginia
Yellow Jacket	Jan 15	Gold Hill.

San Francisco Metal Market.

PRICES FOR INVOICES.

Jobbing prices rule from ten to fifteen per cent. higher than the following quotations.)

SAN FRANCISCO, Dec. 30, 1865.

IRON.—Duty: Pig $9 ₱ ton; Railroad 60c ₱ 100 lbs; Bar 1@1½c ₱ lb; Sheet, polished, 3c ₱ lb. common, 1½@1¾c ₱ lb; Plate 1½c ₱ lb; Pipe, 1½c ₱ lb; Galvanized 2½c ₱ lb.

Scotch and English Pig ₱ ton	40	@—
American Pig ₱ ton	—	@40
Refined Bar, had assortment, ₱ lb	3	@—
Refined Bar, good assortment, ₱ lb	3½	@—
Boiler No. 1 to 4	4	@ 5
Plate No. 5 to 9	4½	@ 6
Sheet No. 10 to 13	4	@—
Sheet No. 14 to 20	5	@—
Sheet No. 24 to 27	5½	@—

COPPER.—Duty: Sheathing 3½c ₱ lb; Pig & Bar 2½c ₱ lb

Sheathing ₱ lb	32	@34
Sheathing, Old	20	@30
Sheathing, Yellow	30	@—
Sheathing, Old Yellow	12	@13
Bolts	13	@16
Composition Nails	30	@32

TIN PLATES.—Duty: 2½c ₱ lb.

Plates, Charcoal, IX ₱ box	14	@15
Plates, I C Charcoal	12	@13
Roofing Plates	11	@ 12
Banca Tin Slabs, ₱ lb	41	@42½

STEEL.—English Cast Steel, ₱ lb. 12½@16

QUICKSILVER.—Per lb. — @65

For export. 55 @—

ZINC.—Sheets ₱ lb. 9½@10

LEAD.—Pig ₱ lb. 7 @ 8

Sheet	10	@12
Pipe	10	@12
Bar	9½	@10

BORAX—California, ₱ lb. 20 @23

San Francisco Stock and Exchange Board.

SAN FRANCISCO, December 23, 1865.

	Bid.	Asked.
United States 7 3-10ths	$ —	$ 74
Gov. Legal Tender Notes	67	67¼
State Bonds, 7 ₱ cent.	83	85
San Francisco 10 ₱ cent.	..	..
San Francisco Bonds, 1855, 6 ₱ cent.	70	..
San Francisco Bonds, 1858, 6 ₱ cent.	65	..
Sacramento City Bonds, 6 ₱ cent.	..	..
Sacramento County Bonds, 6 ₱ cent.	50	55
Marysville Bonds, 10 ₱ cent.	75	..
Stockton Bonds, 10 ₱ cent.	60	..
Yuba County Bonds, 10 ₱ cent.	75	80
Butte County Bonds, 10 ₱ cent.	65	80
California Navigation Co.	59	60
State Telegraph Stock	20	..
San Francisco Gas Co.	102½	104
Sacramento Gas Co.	..	75
Spring Valley Water Co.	56	57
RAILROADS.		
Sacramento Valley Railroad	..	..
Omnibus Railroad	42	45
Central Railroad Co.	..	65
North Beach and Mission	41	42
MINING STOCKS.		
Ophir	$ 365	$ 370
Gould & Curry	875	935
Empire M. & M. Co.	....	....
Sierra Buttes Quartz Co.	....	....
Central	....	....
California	....	....
Savage	835	840
Chollar-Potosi	170	175
Hale & Norcross	280	285
White & Murphy	....	....
Sierra Nevada	7	8
Daney	..	..
Burning Moscow	..	..
Lady Bryan	..	..
Sacramento & Meredith	....	....
Burnside	....	....
North American	....	....
Baltimore American	....	....
Yellow Jacket	540	545
Overman	78	80
Cedar Hill Tunnel	....	....
Wide West	6	7
Crown Point	510	515
Antelope	....	....
Emeralda	1	5
Etna	....	....
Real del Monte	..	15
Bullion, C. H.	33	35
Buckeye	....	....
Dick Sides	....	....
Imperial	130	135
Alpha	245	250

From the Stock Circular of Associated Brokers of the S. F. Stock & Exchange Board.

SAN FRANCISCO, SATURDAY MORNING, December 30th, 1865.

There is no new feature in the condition of the money market, and the supply of capital continues abundant, at rates of interest current for some time past. Transactions in mercantile circles are more restricted than usual, owing to the approach of the new year, and the operations of the Stock Exchange do not now involve much assistance from outside sources.

Receipts of treasure from domestic sources during the week amounted to $850,000, making an aggregate of $4,150,000 since the 1st instant. The bullion product of California during the year 1865, will probably exceed $28,000,000, and that of Nevada will amount to some $14,500,000. The treasure product of the latter amounted to about $16,000,000 last year.

Bullion was in fair request for the steamer of to-day, but the market has been well supplied since the temporary closing of the Branch Mint, and gold bars were sold yesterday at 830@840. Silver is quotable at about par to ½ ₱ cent. premium for bars of average fineness.

The mining share market has been a little irregular this week, but most leading stocks are rather firmly held, and the late advance has, for the most part, been well maintained. Advices from a number of claims continue favorable, and the year will close upon much better prospects for the future than were predicted by a certain class of croakers a short time since.

The aggregated recorded sales of Shares, etc., at the Stock and Exchange Board during the year 1865, amounted to $47,369,092. The smallest weekly sales amounted to $424,846, and the highest to $1,580,910, the average being about $910,000 per week. The total sales at the Board in 1864 amounted to $36,385,650, showing an increase in the transactions this year of $10,379,440.

Gould & Curry met with small sales at $900@$295, and is now held at $925. Receipts of bullion from the mine for the current month will amount to some $160,000, and a dividend of at least $40 per foot is confidently anticipated next week.

Savage declined from $850 to $780, seller 30, rose to $900, receded to $790, rallied to $860, and closed at $835. Within this range 135 feet were sold. The winze sunk from the 5th level in the North Potosi chimney is now down some 50 feet in first-class ore. This is an important development, and apart from the promising character of other portions, would of itself give a new lease of life to the mine. The suit of Chase and others against this company, claiming some 65 feet of ground, which was decided nearly a year ago in favor of defendants, has been re-opened by the Supreme Court of Nevada, and a new trial ordered. Receipts of bullion from this mine during the month of December will exceed $150,000. The net profits will, it is said, amount to some $75,000, and reduce the indebtedness of the company to about $100,000.

Yellow Jacket has been actively dealt in, and nearly 200 feet changed hands; advancing from $450 to $530, receding to $460, seller 30, rallying to $590, dropping to $525, rising to $580, and selling yesterday at $530@550. During the week ending 18th December, 650 tons of ore were extracted, and 670 tons were worked (at company's mill), yielding $20,959.44, or an average of $32.23 per ton. The prospecting shaft sunk from the 430-feet level in the northern part of the mine, is now down 25 feet in good ore throughout this depth; and in the bottom of this shaft first-class ore has been met with. Favorable indications have been found in the drift south from the Central Shaft (430-feet level), and also in running from the new shaft on the 280-feet level.

Crown Point is in better request, and some 53 feet were sold within a range of $450@550, closing at about $520, seller 30. During the week ending December 22d, 283 tons of ore were raised to the surface, and some 800 tons in all have now been accumulated, which, it is thought, will keep both mills running until certain repairs to the main shaft can be made.

Ophir fell from $370 to $345, rose to $375, dropped to $350, and sold yesterday at $370@365. From December 1st, 1864, to the 1st of December this year, 3,641 tons of ore and tailings were treated at the Reduction Works, and 7,634 tons of ore were reduced at the River mill, producing in the aggregate $484,181. During that period $179,000 were derived from other sources, and $140,000 were obtained from the late assessment, making the total receipts for the past year, $793,767.03. The present indebtedness of the company is less than $40,000, and their assets are valued at $441,000 over and above all liabilities.

Hale & Norcross fell from $300 to $210, rose to $400, steadily declined to $290, and sold yesterday at $270@280. In drifting north and east from the incline, at a depth of about 700 feet, a substantial body of quartz has been penetrated, which is thought to indicate the close proximity of pay ore.

Alpha rose from $275 to $315, declined to $205, rose to $240@$260, and closed at about $240. The assessment of $50 per share ($200 per foot), levied on the 19th instant, makes in all, thus far, some $920 per foot, upon the stock of this company.

Belcher has been dealt in at a range of $200@145 per foot, closing at $175. An assessment of $100 per foot was levied December 14th.

Empire Mill and Mining Company rose from $205 to $270, then fell to $250, and sold yesterday at $240. The body of ore on the upper level shows some improvement, and is now some 20 feet wide. The mine is yielding some 50 tons of ore daily, and receipts of bullion this month will exceed $40,000.

Chollar-Potosi fell from $150 to $140, rallied to $162, and was sold yesterday at $165@177½. During the week ending December 22d, 485 tons were sent to custom mills, 191½ tons were sold at $8, and 121½ tons at $5 per ton. Some 15 tons first-class ore were also sent to the Mexican mill. A new station is being opened some 60 feet below the Potosi tunnel, and it is proposed to run a cross-cut 60 feet still deeper.

In the old workings of the Chollar, between the 3d and 4th stations, the seam of ore alluded to last week have now been traced 50 feet in length, and 15 feet in depth. The new shaft is sunk and timbered to a depth of 523 feet, and the drift toward the ledge is in some 70 feet.

Imperial rose from $103 to $117½, then sold at $121, and was dealt in yesterday at $122@130, some 1,500 shares in all changing hands. The report of the Committee of Trustees recently on a visit to the mine is said to be favorable, and represents that there are four months' supply of ore in the different levels, with a good prospect for the future at greater depths. The receipts of bullion thus far the current month are slightly in excess of a like period last month.

Bullion rose from $25 to $35, fell to $32, and closed at $40. Confidence was sold at $24@26, and closes at about $40 asked. Overman rose from $40 to $60, then sold at $65, and was dealt in yesterday at $80@70.

The aggregate sales of Stocks, since Saturday last inclusive, amounted to $710,896.

San Francisco Jobbing Prices Current.

Flour, extra, ₱ bbl.	6 50	@	7 00
Do Superfine	6 25	@	6 75
Corn Meal, ₱ 100 lb		@	3 50
Wheat, ₱ 100 lb	1 95	@	2 10
Oats, choice, ₱ 100 lb	1 50	@	1 75
Barley, ₱ 100 lb	1 05	@	1 12
Beans, ₱ 100 lb	2 25	@	3 50
Potatoes, ₱ 100 lb	90	@	1 00
Hay, ₱ ton	15 00	@	19 00
Live Oak Wood, ₱ cord	8 00	@	10 00
Beef, on foot, ₱ lb	6	@	7
Beef, extra, dressed, ₱ lb	12½	@	15
Sheep, on foot,	1 00	@	2 00
Hogs, on foot, ₱ lb	9	@	10
Hogs, dressed, ₱ lb	13	@	14
Groceries, Etc.			
Sugar, crushed, ₱ lb	16½	@	—
Do China	10	@	12½
Coffee, Costa Rica, ₱ lb	27½	@	—
Do Rio	26	@	
Tea, Japan, ₱ lb	85	@	95
Do Green	70	@	90
Hawaiian Rice, ₱ lb	10	@	—
China do.	8	@	10
Coal Oil, ₱ gal	1 10	@	1 15
Candles, ₱ lb	24	@	27
Ranch Butter, ₱ lb	55	@	65
Isthmus do	35	@	42½
Cheese, California, ₱ lb	20	@	26
Eggs, ₱ doz	45	@	47
Lard, ₱ lb	22	@	23
Ham and Bacon, ₱ lb	25	@	—
Shoulders	20	@	22
Soap—Pale & C. O	10	@	12
Castile	12	@	13

San Francisco Retail Prices Current.

Butter, California fresh ₱ lb	75	@	80
do pickled ₱ lb	60	@	70
do Oregon	35	@	40
do New York, ₱ lb	45	@	55
Cheese, ₱ lb	25	@	35
Honey, ₱ lb	30	@	40
Eggs, ₱ doz	60	@	75
Lard, ₱ lb		@	25
Ham and Bacon, ₱ lb	28	@	30
Cranberries, ₱ gal	75	@	—
Potatoes, sweet, ₱ lb	5	@	8
do Irish, ₱ lb	1	@	2½
Tomatoes, ₱ lb	5	@	8
Onions, ₱ lb	4	@	6
Apples, No. 1, ₱ lb	4	@	10
Pears, table ₱ lb	3	@	10
Plums, dried, ₱ lb	15	@	25
Peaches, dried, ₱ lb	15	@	25
Grapes, ₱ lb	5	@	15
Oranges, ₱ doz	75	@	1 00
Lemons, ₱ doz	1 00	@	1 50
Chickens, apiece	75	@	1 00

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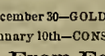

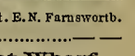

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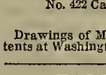

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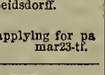

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Know all men by these presents, that I, ... do hereby constitute and appoint ..... my attorney and agent, for me and in my name, to vote as my proxy, at a meeting of the ..... Mining Company, to be held ..... 186 , according to the number of votes that I should be entitled to cast were I there personally present.

In witness whereof I have this day hereunto set my hand and seal. .....[Seal]

Dated 186

Assessment Notice.

..... Company

.....

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the ..th day of ....., 186 , an Assessment of .....per share was levied upon the Capital Stock of said Company, payable on the ..th day of .....186 , in United States gold and silver coin to the Secretary.

Any stock upon which said Assessment shall remain unpaid on Saturday, the ..th day of ....., 186 , will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on ....., the ..th day of ....., 186 , to pay the delinquent Assessment, together with the costs of advertising and expenses of the sale. By order of the Board of Trustees.

..... Secretary.

Office.....

NOTICE.—There are delinquent, upon the following described Stock, on account of assessment levied on the ..th day of ..... 186 , the several amounts set opposite the names of the respective shareholders as follows, to wit:

Names.	No. Certificate.	No. Shares.	Amount.
Theophilus Thistle	23	14	$140 00
Peter Pipe	2	3	30 00

And in accordance with law and an order of the Board of Trustees, made on the ..th day of ..... , 186 , so many shares of each parcel of said stock as may be necessary, will be sold at the.....

....., on ....., the ..th day of....., 186 , at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

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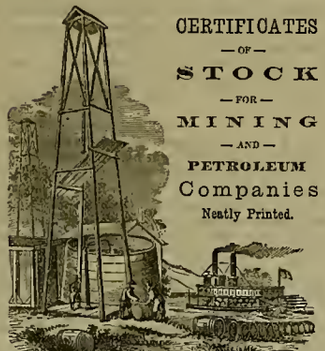

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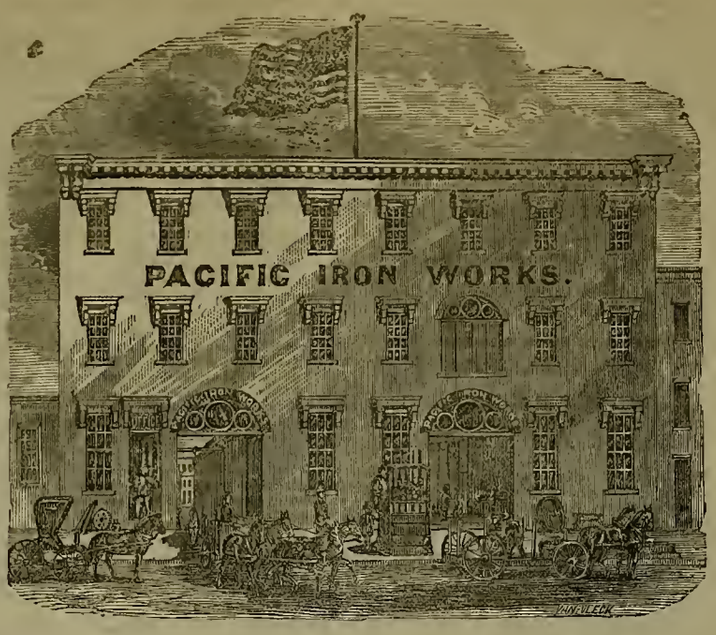

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Portable Engines of all Sizes; Donkey Pumps, Etc.

25v9q JOHN LOCHHEAD, Practical Engineer

WHAT IS IT?—The Monitor *Gazette* says that the Leviathan Company have struck a lode or vein of ore in their tunnel which puzzles all who have inspected it, as to its character. There appears to be a suspicion that it is copper. A large stream of water was opened giving most unmistakable evidence of a lode of some kind. We have repeatedly given notice that whenever any peculiar mineral is struck, the name or character of which may be unknown or uncertain to any in the neighborhood, we will cheerfully examine and analyze it, so far as may be necessary to determine its character and return the results to our correspondents free of cost—they sending the sample to us free of expense. We again renew the offer, and should be happy to hear from our friends in Alpine, and resolve their doubts, if any still exist.

The Fall River *Monitor* says that Samuel T. Sanford of that city has obtained a patent on a machine for the manufacture of shingles, which is capable of turning out from 100,000 to 125,000 per day, while those now in use can manufacture but about 10,000 to 12,000.

What "They Say" of the Mining and Scientific Press.

Prof. J. D. Whitney's address on Mining, is given entire. * * * We preserve the PRESS, and would like to have a full file.—[Napa Reporter.

The public should support the enterprise of the MINING PRESS, one of the best papers in the State, by a liberal patronage, as it is only by a system of legitimate reports that our mines can be favorably brought before men of capital below.—[Calaveras Chronicle.

Under the management of Messrs. Dewey & Co., the PRESS has been much improved in every respect. * * It deserves a liberal support.—[Virginia Union.

A good paper for this country.—[Humboldt Register, Nu.

Those who would have a good paper of this character, should subscribe now.—[Marysville Appeal.

It embraces one of the finest fields in the world, and seems to improve it. * * * It will be second to no scientific record now published on this continent.—[Los Angeles News.

A neat and useful journal. One of the most presentable and useful in the State.—[Sunday Mercury.

Such a journal has been needed on the Pacific Coast. The PRESS fills the bill.—[Reese River Reveille.

A splendid paper, and should have a good list of subscribers in prosperous Grass Valley.—[G. V. National.

We receive, regularly as clock work, this exceedingly valuable and interesting journal.—[Napa Reporter.

Interesting and important to miners and Mountain men. [Butte Record.

The publishers intend to make it the "Scientific American" of the Pacific Coast. Every miner should have a copy of it in his cabin, for it will be filled with useful information to the pick and shovel fraternity.—[Trinity Journal.

Should be taken by every man owning "feet" [and brains] in this State.—[Beacon.

In no other ten journals can the reader find the same amount of reliable mining news as in the PRESS.—[Contra Costa Gazette.

Every stockholder in different mines will find it will pay to take and read this mining journal.—[Contra Costa Gazette.

The PRESS is to the Pacific Coast what the "Scientific American" is on the Atlantic. It deserves its success.—[Aurora Daily Times.

It is fully up to the times, and furnishes the latest mining improvements and intelligence.—[Calaveras Chronicle.

Every miner should subscribe for the PRESS.—[Calaveras Chronicle.

It presents a channel through which all mining notices may be cheaply consolidated into one sheet for the convenience of all stockholders.—[Mountain Messenger.

We can give our testimony that it is always replete with useful and valuable information to miners and mechanics. [Placer Herald.

Rates of Advertising

—IN THE—

MINING AND SCIENTIFIC PRESS.

Mining Advertisements.

Notices of Meetings, per square, one week	$1 00
Notices of Meetings, per square, four weeks	2 50
Assessment Notices, of ordinary length, four weeks	5 00
Assessment Notices, of more than usual length, for each additional square	2 50
Delinquent Sales, per square, two weeks	2 00
Delinquent Sales, per square, three weeks	2 50
Postponements, per square, one week	1 00
Slips of Advertisements, printed for meetings or assessments, per hundred	1 00
Advertising blanks and circulars	Free

Miscellaneous Advertisements.

One week, per square	$1 00
One month, per square	2 50
One quarter (3 months), per square	7 50
Advertisements of great length, or of special character, inserted by contract on the most favorable terms.	

☞ *Ten lines of solid advertising type constitutes a square.* ☜

Terms of Subscription.

THE MINING AND SCIENTIFIC PRESS is published every Saturday morning (containing sixteen pages—size of *Harper's Weekly*) at the following rates:

One copy, one year, by mail, in advance	$5 00
One copy, six months, by mail, in advance	3 00
One copy, one year, by express	6 50
One copy, six months, by express	3 50
Five copies, one year, by mail, in advance	20 00
By city carriers, per month	50
Single copies	12½
Monthly Series (or parts), containing 4 Nos.	50
Monthly Series, containing 5 Nos.	62½

THE CIRCULATION of the PRESS, already extensive, is rapidly increasing, and substantial men who can profit by widely disseminating information of their business amongst the most intelligent, influential and industrial classes of the Pacific States and Territories will find no more effectual or economical medium for advertising.

DEWEY & CO., Proprietors.

Patent Agency and Job Printing Office, 505 Clay street, San Francisco. July 1 1865

BACK VOLUMES.

Back files of the MINING AND SCIENTIFIC PRESS, from January 1st, 1861, to the present time, will be furnished at $3 per volume of six months; bound in cloth, $5

J. B. CONE, BUSINESS AGENCY.—Makes private sales of Property and Business Places of every description, in the city and throughout the State; procures partners with large and small amounts of money; negotiates sales of mining property, and does a General Agency Business. Patronage solicited by mail, express, or by personal application at the office, 402 Montgomery Street, San Francisco, California. 23v11tf

BUY

The Monthly Series

—OF THE—

MINING AND SCIENTIFIC PRESS.

Send it to Your Friends.

Issued at the close of EACH Month.

PRICE.....50 CENTS.

Just and True Economy

The Proprietors of the MINING AND SCIENTIFIC PRESS would call the especial attention of MINING SECRETARIES, TRUSTEES and SHAREHOLDERS, to a few substantial reasons for the publication of Mining Notices in their journal—the first and only important newspaper of its class published upon this coast.

1st. The PRESS enjoys a large and permanent subscription list, having a more universal circulation among shareholders and men intimately connected with mining interests than any other publication.

2d. Under the present law the publication of all mining notices on Saturday, in a weekly journal, complies as fully with the statutes as a daily publication. It is generally found to be equally as convenient for secretaries, and decidedly preferable to stockholders who have not time to examine throughout every issue of a daily.

3d. Economy in mining should always be looked upon with favor, and the cost for weekly advertising in the PRESS is less by ONE-HALF than the rates of any other journal in this city possessing a respectable circulation.

4th. The publishers of the PRESS, making the mining interest their especial care, take particular pains to assist in the avoidance of errors in advertising. Our print is also more clear and perfect than can be expected in such papers as are hurriedly issued from cylinder presses.

5th. Our "Shareholders' Directory" forms a complete index of all mining notices published in San Francisco, by reference to which shareholders can at once see if their company is advertised, and determine whether the same is inserted in the PRESS or some other paper.

6th. Many copies of the PRESS are bound by prominent professional men, mechanics, secretaries, brokers, shareholders and others, as an important record for future reference, thereby rendering advertising, of every class, in its columns, of peculiar and permanent value.

7th. The benefit of having all mining notices consolidated in one newspaper, for the common convenience of shareholders, secretaries, and others who have occasion to refer to the same, is obvious. With this view we have established our rates at only fair, living prices, believing that a journal like ours, untrammeled by party, creed, or prejudice, is the only medium which can reasonably ask for such a consolidation of mining patronage.

8th. Advertisements in the columns of the PRESS, after their first insertion, are arranged alphabetically. Our present list is equalled only in one instance by that of any other journal. Shareholders, as well as strangers, naturally turn their attention to a mining journal for information concerning the mines and mining matters.

LAST, BUT NOT LEAST.—Our sheet (having been recently enlarged to the size of Harpers' Weekly) is now only equalled in its dimensions by one mining paper in existence—the *London Mining Journal*. Published in this, the greatest mining field of the world, we desire that the PRESS shall have no superior. We can only realize our cherished object of building up a reliable advocate of the science and business of mining, which will be of just honor and profit to our community, by experience and liberal patronage. The bestowal of such favors only as naturally belong to us, and which it is clearly for the benefit of the mining fraternity to extend, is all that is requisite, and we are confident we shall receive it

DEWEY & CO.,

4v11 Office Mining and Scientific Press.

New Mining Advertisements.

Continued Mining Advertisements will be found under another head

Animas Silver Mining Company---Location of Mines: Ventanas, Durango, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 30th day of December, 1865, an assessment of forty (40) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, pro tem., THOMAS HILL, at his office, No. 622 Montgomery street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 3d day of February, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 19th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

THOMAS HILL, Secretary Pro tem,

Office, 622 Montgomery street, San Francisco, Cal. dec30

Chicago Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 25th day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Bradley, H W	18	16	$32 00
Bradley, H W	61	0	12 00
Cutter, H F	78	14	28 00
Chevers, W H	25	11	22 00
Drinkhouse, J A	76	8	16 00
Dinklespiel, L	27	6	10 00
Francis, D B	13	10	20 00
Gayle, A B	74	17	34 00
Harker, W B C	35	5	10 00
Heath, R W	17	16	32 00
Knox, J W	67	11	22 00
Leppien, Fred	16	5	10 00
Turner, Anna K	26	6	10 00
Wightman, Jno	21	11	22 00
Whitlatch, J W	68	10	20 00
Whitlatch, J W	59	10	20 00
Whitlatch, J W	60	10	20 00
Whitlatch, J W	01	13	26 00
Williams, J J	64	5	10 00

And in accordance with law, and an order of the Board of Trustees, made on the 25th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the office of the Company, 402 Front street, by Jones & Bendixen, Auctioneers, on the 15th day of January, 1866, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco, Cal. dec30

Great Western Tunnel and Mining Company, Aurora, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 28th day of December, 1865, an assessment of ten (10) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 27th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 10th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

JOS. O. FORD, Secretary.

Office, No. 21 Exchange Building, corner Washington and Montgomery streets, San Francisco. dec30

George Washington Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal. Assessment No. 9.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 26th day of December, 1865, an assessment of one dollar ($1) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, only.

Any stock upon which said assessment shall remain unpaid on Saturday, the 27th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 13th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. D. ROOT, Secretary.

Office, 338 Montgomery street, San Francisco. dec30

Leland Gold and Silver Mining Company, San Francisco District, Mohavo County, Arizona Territory.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 30th day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
William Packard	50	50	$12 50
William Packard	52	50	12 50
William Packard	63	50	12 50
William Packard	88	100	25 00
William Packard	108	11	2 75

And in accordance with law and an order of the Board of Trustees, made on the 30th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, San Francisco, Cal., on the 15th day of January, 1866, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

WM. HOLLIS, Secretary.

Office, Room No. 2, 3d Floor, 302 Montgomery street, San Francisco, Cal. dec30

Lady of the Lake Gold and Silver Mining Company, San Francisco District, Mohavo County, Arizona Territory.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 30th day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
A W Webb	49	10	$ 2 50
A W Webb	87	85	16 25
A W Webb	88	35	8 75
William Packard	113	261	65 25

And in accordance with law and an order of the Board of Trustees, made on the 30th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the Office of the Company, San Francisco, Cal., on the 15th day of January, 1866, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

WM. HOLLIS, Secretary.

Office, 302 Montgomery street, Room No. 2, 3d Floor. dec30

Oxford Beta Tunnel and Mining Company, Esmeralda District and County, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of December, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the said 22d day of December, 1865, in United States gold and silver coin, to the Secretary, or to the Superintendent at the mine.

Any stock upon which said assessment shall remain unpaid on Saturday, the 27th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 14th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

GEO. H. PECK, Secretary.

Office, corner Broadway and Sansome streets, San Francisco. dec30

Salamander Gold and Silver Mining Company, Mill Valley District, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 28th day of December, 1865, an assessment of twenty (20) cents per share was levied upon each and every share of the capital stock of said company, payable on Friday, the 29th day of December, 1865, in United States gold or silver coin, to the Secretary, 121 Front street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 27th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 10th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

F. D. GALLAGHER, Secretary.

Office, No. 85 Metropolitan Block, San Francisco, California. dec30

Calendars for 1866.—The MINING AND SCIENTIFIC PRESS JOB PRINTING OFFICE is prepared to execute every manner of Counting-house Calendars and advertisements for various business men, on short notice and moderate terms.

United States Gold and Silver Mining Company, Ravenswood and Santa Fe Districts, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 23d day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificates.	No. Shares.	Amount.
Fuller, Silas	1	300 hal	$283 00
Sharp, Geo F	2	300 hal	136 00
Cannon, J M	3	300 hal	315 00
Clarke, F M	6	100 hal	45 33
Lashier, Frank	8	150 hal	145 50
Clarke, Geo E	9	225 hal	142 25
Sawyer, Leander	10	300 hal	136 00
Fuller, R R	13	125 hal	131 25
Schuster, J S	14	124 hal	130 00
Baumer, George	16	125 hal	131 25
Schutze, Henry	16	125 hal	131 25
Plummer, M D	18	37½ hal	23 38
Stock, John	19	150 hal	18 00
James, D B	28	37½ hal	39 38

And in accordance with law, and an order of the Board of Trustees, made on the 23d day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at Maurice Dore & Co.'s Salesroom, No. 327 Montgomery street, San Francisco, on Monday, the 15th day of January, 1866, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

T. L. BIBBINS, Secretary.

Office, 318 Merchant street, San Francisco. dec20

Mining Notices--Continued.

New Mining Advertisements to be found under another heading.

Agawam Gold and Silver Mining Company, Union District, Nye County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 12th day of December, 1865, an assessment of one dollar per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 27th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

G. M. BURNHAM, Secretary.

Office, 436 Jackson street, San Francisco. dec16

Notice.—The Annual Meeting of the stockholders of the AGAWAM GOLD AND SILVER MINING COMPANY, for the election of Trustees, and transaction of such business as may come before them, will be held at the office of the Company, 436 Jackson street, San Francisco, on Saturday, the 13th day of January, 1866, at 12 o'clock M.

dec16 G. M. BURNHAM, Secretary.

Blue Ledge Gold and Silver Quartz Mining Company, Kelsey District, El Dorado County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 12th day of December, 1865, an assessment of one dollar and fifty ($1.50) cents per share was levied on each and every share of the capital stock of the Blue Ledge Gold and Silver Quartz Mining Company, payable immediately, in United States gold coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 27th day of January, 1866, at 12 o'clock M. of that day, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. M. BUFFINGTON, Secretary.

Office, No. 10 Government House, corner of Sansome and Washington streets, San Francisco. dec16

Bunker Hill Quartz Mining Company, Amador County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 27th day of November, 1865, an assessment of five dollars ($5) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 6th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 20th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

WALES L. PALMER, Secretary.

Office, No. 19 First street, San Francisco. dec9

Diana Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of December, 1865, an assessment of ten dollars ($10) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, 402 Front street, San Francisco.

Any stock upon which said assessment shall remain unpaid before Saturday, the 20th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 6th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. The said assessment being levied to pay off balances of indebtedness for improvements recently made at the mine. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. dec23

Postponements and Alterations.—Secretaries are requested to give notice of postponements, or alterations which they may desire made in their advertisements at their earliest convenience. Now advertisements should be sent in as early as possible.

ELECTROTYPE CUTS, ENGRAVINGS, ETC.—Our Job Printing Office is abundantly supplied with elegant engravings, ornaments, and other embellishments to suit the various branches of industry in this State.

Goodwin Gold and Silver Mining Company, Simpson Park District, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment (No. 9) levied on the 7th day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Burdick, S A	194	10	$20 00
Chapin, E M	214	5	10 00
Chapin, Mrs E M	61	10	20 00
Chrittenden, J G	250	10	20 00
Clendennen, Jas B	256	7	14 00
Clendennen, Jas B	257	7	14 00
Dunbar, Mrs A E	116	25	50 00
Dunbar, Mrs A E	117	25	50 00
Litchfield, W D	200	10	20 00
Kretchner, Herman	210	15	30 00
McLachlin, Donald	120	10	20 00
Noyes, Wm M	213	10	20 00
Noyes, Wm M, Agent	262	60	120 00
Noyes, Wm M, Agent	263	679	1358 00
Noyes, Wm M, Agent	264	1000	2000 00
Noyes, Wm M, Agent	265	546	1092 00
Shrader, A J	58	20	40 00
Shrader, A J	59	20	40 00
Shrader, A J	62	20	40 00
Shrader, A J	63	20	40 00
Shrader, A J	64	20	40 00
Shrader, A J	65	20	40 00
Shrader, A J	66	20	40 00
Shrader, A J	67	20	40 00
Shrader, A J	68	20	40 00
Shrader, A J	69	20	40 00
Shrader, A J	70	20	40 00
Shrader, A J	71	11	22 00
Smith, William	236	50	100 00
Smith, William	237	50	100 00

And in accordance with law, and on order of the Board of Trustees, made on the 7th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., at their salesroom, 620 Montgomery street, on the 30th day of December, 1865, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

E. V. JOICE, Secretary.

Office, corner Washington and Battery street, San Francisco. dec16

Honest Miner Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of December, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, 402 Front street.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 29th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front Street, San Francisco. dec16

Hornet Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 21st day of December, 1865, an assessment of one dollar ($1) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, 402 Front street.

Any stock upon which said assessment shall remain unpaid before Saturday, the 20th day of January, 1866, will be advertised as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 6th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. dec23

Hanscom Copper Mining Company, Low Divide District, Del Norte county, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of December, 1865, an assessment of fifteen cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Saturday, the 20th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 3d day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

W. L. GETCHELL, Secretary.

Office, No. 19 First street, San Francisco, Cal. dec23

Joe Lane Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 14th day of December, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary. 402 Front street.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 29th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. dec16

Jewett Gold and Silver Mining Company, Gold Hill District, Storey County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of December, 1865, an assessment of one ($1) dollar per share was levied upon the assessable capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary.

Any stock upon which said assessment shall remain unpaid on Friday, the 5th day of January, 1866, will be advertised on Saturday, the 6th day of January, 1866, as delinquent, and unless payment shall be made before, will be sold on Saturday, the 20th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

O. M. BURNHAM, Secretary Pro tem.

Office, 436 Jackson street (up stairs), San Francisco. dec9

Jefferson Gold and Silver Mining Company, Lauder County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 2, levied September 20, 1863, of fifty cents; No. 3, December 11, 1863, of fifty cents; No. 4, February 4, 1864, of one dollar, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Shs.	No. 2.	No. 3.	No. 4.	Total Amt.
Brown, J S	130	11				$11 00
Brown, J S	140	9				9 00
Cassell, J F	10	10	$5 00	$10 00	15 00	
Clarke & Blakeley	44	9¼	4 63	9 25	13 88	
Curtis, S T	95 to 102	10-ea	40 00	80 00	120 00	
Curtis, S T	103	12½	0 25	12 50	18 75	
Clifford, S O	112	12½			12 50	
Clifford, S O	131	25			25 00	
Clark, H	28	25			25 00	
Clark, H	29	25			25 00	
Clark, H	113	11½			11 50	
Doling, P F	3	20			20 00	
Donzel, A J	5	10			10 00	
Faulkner, G H	41	5			5 00	
Gilbert, Jos	65	20			20 00	
Gilbert, Jos	66	20			20 00	
Gilbert, Jos	67	20			20 00	
Gilbert, Jos	135	6			6 00	
Gilham, W B	133	7			7 00	
Holman, T	40	5			5 00	
Jacobs, N B & Co	42	10			10 00	
Janes, J L	143	15			15 00	
McGahey, Jas	22	9¼	3 12	0 25	9 37	
Pinkerton, Chas	31	9¼	4 02	9 25	13 87	
Seaver, L B	23	10	$5 00	5 00	10 00	20 00
Seaver, L B	24	10	5 00	5 00	10 00	20 00
Seaver, L B	26	10	5 00	5 00	10 00	20 00
Smith, W K	4	20	10 00	10 00	20 00	40 00
Rex, H V	134	12				12 00
Sweetland, J O	129	5				5 00
Woodford, H C	12	20				20 00
Watson, N A	115	10				10 00
Watsou, N A	144	25				25 00
Watson, N A	147	40½				40 50

And in accordance with law, and on order of the Board of Trustees, made on the 6th day of December, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, at the office of the Company, by Jeucs & Bendixen, auctioneers, on the 8th day of January, 1866, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C. FASSETT, Secretary,

Office, 402 Front street, San Francisco, Cal. dec9

Kentucky Copper Mining Company, Mme Felix District, north of Copperopolis, Calaveras County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 20th day of December, 1865, an assessment of one dollar per share was levied upon the Capital Stock of said Company, payable on the 21st day of December, 1865, in United States gold and silver coin, to the Secretary, 644 Washington street, San Francisco, Cal.

Any stock upon which said assessment shall remain unpaid on Saturday, the 20th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Wednesday, the 7th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. A. BAUER, Secretary.

Office, 644 Washington street, San Francisco, Cal. dce23

Keokuk Gold, Silver and Copper Mining Company, Clayton District, Coutrn Costa County, California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 15th day of October, 1865, the several amouuts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Wm Morris	335	50	$ 5 00
Jas M Bunker	92	25	2 50
E Bent	502	25	2 50
J F Morrow	548, 549	10-ea	2 00
J F Morrow	550, 551	5-ea	1 00
W W Theobalds	9	100	10 00
Chas Jackson	114	25	2 50
Chas Jackson	455	200	20 00
Geo Cofran	135	25	2 50
Geo Cofran	137	50	5 00
Geo Cofran	not issued	95	9 50
Geo F Sharp	425	200	20 00
J G Perkins	625	25	2 50
H H Schafer	398	70	7 00
J N Peterson	543	30	3 00
D O Leary	398	20	2 00
J W Domett	544	5	50
J W Domett	545	5	50
J W Domett	546	5	50
J W Domett	547	5	50

And in accordance with law and an order of the Board of Trustees, made on the 16th day of October, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Olney & Co., No. 626 Montgomery street, San Francisco, on the 30th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

A. B. WINEGAR, Secretary.

Office, 308 and 310 Front street, San Francisco. dec16

Lady Franklin Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 7th day of December, 1865, an assessment of fifty (50) cents per share was levied upon the capital stock of said Company, payable on the 12th day of December, 1865, in United States gold and silver coin, to the Secretary, at his office, 305 Montgomery street, San Francisco, Cal., or to THOMAS PETERS, at the mine at Silver Mountain.

Any stock upon which said assessment shall remain unpaid on Saturday, the 6th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 26th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

J. S. LUTY, Secretary.

Office, 305 Montgomery street, San Francisco. dec

ENGRAVEN TO ORDER.—Persons who desire to illustrate their individual establishments or business, should give us their orders for Engraving and Printing, and we will guarantee good work and reasonable prices.

DEWEY & CO.,
Patent Agents, Publishers and Job Printers, 505 Clay st.

Madison Gold and Silver Mining Company, Lander County, Nevada.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 3, levied on the 27th of November, 1863, of fifty cents per share, and No. 4, levied February 4th, 1864, of one dollar per share, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Cert.	No. Sbs.	No. 3.	No. 4.	Total Am't.
Anderson, E O	12	5	$2 50	$5 00	$7 50
Bryant, A J	09	5	2 50	5 00	7 50
Clifford, S O	51	9	4 50	9 00	13 50
Clifford, S O	53	45			45 00
Clifford, S O	54	5			5 00
Clifford, S O	56	5			5 00
Clifford, S O	57	5			5 00
Clifford, S O	58	5			5 00
Clifford, S O	63	71½			71 50
Clifford, S O	118	14			14 00
Jacobs, N B	75	10	5 00	10 00	15 00
McAllister, P	16	25			25 00
McAllister, P	17	25			25 00
McAllister, P	18	25			25 00
McAllister, P	19	25			25 00
McAllister, P	21	10			10 00
Louis Dionne	130	10			10 00
Morrison, J C Jr	98	5	2 50	5 00	7 50
McHarg, D P	100	10			10 00
Pryor, C M	48	40	20 00	40 00	60 00
Pryor, C M	37	5			5 00
Plummer, B L	83	10			10 00
Spitzer, L A	126	5	2 50	5 00	7 50

And in accordance with law, and an order of the Board of Trustees, made on the 6th day of December, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at auction, at the office of the Company, by Jones & Bendixen, auctioneers, on the 8th day of January, 1866, at the hour of 1 o'clock P. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

N. C FASSETT, Secretary.

Office, 402 Front street, San Francisco. dec9

Nevada Gold and Silver Mining Company, Lander County, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said company, held on the 14th day of December, 1865, an assessment of one dollar and fifty cents ($1.50) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, 402 Front street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 29th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

N. C. FASSETT, Secretary.

Office, 402 Front street, San Francisco. dec16

Orleans Quicksilver Mining Company— Location: Lake County, California.

Notice is hereby given, that the Annual Meeting of the stockholders of the Orleans Quicksilver Mining Company, will be held at the office of J. M. Buffington, No. 10 Government House, corner Sansome and Washington streets San Francisco, on Saturday, December 30th, 1865, at 3 o'clock, P. M., for the election of Trustees, and such other business as may be presented.

CHAS. ROHRLE, President.

San Francisco, Nov. 30, 1865. dec2

Paragon Petroleum Company--- Location of Works: Mattole District, Humboldt County, California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 4th day of December, 1865, an assessment of twenty-five cents per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company, No. 206 Jackson street, San Francisco.

Any stock upon which said assessment shall remain unpaid on Saturday, the 6th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Friday, the 26th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

M. J. McMANUS, Secretary.

Office. No. 206 Jackson street, San Francisco. dec9

Siempre Viva Silver Mining Company, Zaragora District, Sinaloa, Mexico.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 2d day of December, 1865, an assessment of two dollars and fifty cents ($2.50) per share was levied upon the capital stock of said Company, payable immediately, in United States gold and silver coin, to the Secretary, 318 California street, up stairs.

Any stock upon which said assessment shall remain unpaid on Saturday, the 6th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Saturday, the 20th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

JOHN F. LOHSE, Secretary.

Office, No. 318 California street (up stairs), San Francisco, California dec2

Union Mattole Oil Company, Humboldt County, State of California.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 15th day of December, 1865, an assessment of five ($5) dollars per share was levied upon the capital stock of said Company, payable on the 16th day of January, 1866, to the Treasurer of said Company, at his office, 517 Jackson street, San Francisco, State of California.

Any stock upon which said assessment shall remain unpaid on the 19th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on the 6th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale.

C. WINTER, Secretary.

Office, 517 Jackson street. dec23

Notice.—The Annual Meeting of the Stockholders of the UNITED STATES MINING COMPANY, will be held at the Office of the Company, on Monday, December 25th, 1865, at 3 o'clock, P. M.

J. M. BUFFINGTON, Secretary.

San Francisco, November 25th, 1865. no25

PRINTING FOR THE HOLIDAYS promptly executed in any style to suit tradesmen, at our Job OFFICE, 505 Clay street.

Wide West Gold and Silver Mining Company, Silver Mountain District, Alpine County, Cal.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 11th day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Wm C Allred	173	15	$15 00
Mrs S K Arnold	228	5	5 00
Mrs S K Arnold	229	2½	2 50
Geo E Brush	120	4	4 00
J S Brown	213	10	10 00
Brown & Kent	264	5	5 00
Reuben Best	102	10	10 00
John Crawford	105	10	10 00
Jacob Cook	207	10	10 00
David Dutton	198	10	10 00
David Dutton	199	10	10 00
David Dutton	200	5	5 00
David Dutton	239	10	10 00
David Dutton	240	10	10 00
Wm Denming	248	10	10 00
T B Grayham	73	5	5 00
John Gilham	246	10	10 00
Emeliah Justice	64	5	5 00
A B Lake	121	4	4 00
James Lefferts	255	44	44 00
Dr S A McManes	253	31	31 00
J A McGimsey	30	10	10 00
Alex McLellan	171	5	5 00
Alex McLellan	172	5	5 00
Alex McLellan	211	10	10 00
James Morrison	41	5	5 00
Robert McReynolds	118	10	10 00
Jacob McReynolds	122	2	2 00
Jacob McReynolds	241	5	5 00
J W Abee	236	10	10 00
J N Pierson	195	10	10 00
J N Pierson	196	10	10 00
J N Pierson	197	5	5 00
J N Pierson	5	5	5 00
A A Prescott	224	10	10 00
T H Riekman	127	5	5 00
T H Riekman	128	10	10 00
T H Riekman	129	8	8 00
Riekman & Sewell	130	5	5 00
Andrew Stephens	106	20	20 00
Andrew Stephens	107	20	20 00
Andrew Stephens	108	20	20 00
Andrew Stephens	186	20	20 00
Ole Simondsen	119	5	5 00
Jerome Wade	35	5	5 00
Jerome Wade	36	5	5 00
Jerome Wade	37	5	5 00
Jerome Wade	38	5	5 00
W H White	63	10	10 00
R J Whitton	57	7	7 00
David Wise	45	5	5 00
David Wise	40	5	5 00
W H Whitton	47	20	20 00
W H Whitton	48	20	20 00
W H Whitton	49	5	5 00
W H Whitton	50	5	5 00
W H Whitten	51	5	5 00
W H Whitton	52	5	5 00
M S Whitton	2	5	5 00
E Whitton	62	20	20 00
Mrs N Whitten	63	10	10 00
S C Wolfskill	179	25	25 00
B F White	42	12½	12 50
B F White	not issued	3	3 00

And in accordance with law, and an order of the Board of Trustees, made on the said 11th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at the auction rooms of Olney & Co., 626 Montgomery street, San Francisco, on the 30th day of December, 1865, at the hour of 12 o'clock, M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

JOSEPH GREEN, Secretary.

Office, 330 Davis, corner of Washington street, San Francisco. dec16

Yuba Gold and Silver Mining Company, Brown's Valley, Yuba County, State of California.

NOTICE.—There are delinquent upon the following described stock, on account of assessment levied on the 15th day of November, 1865, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Amount.
Pierre Berges	36	5	$12 50
John Stock	72, 95	25-ea	125 00
John Stock	275	19	47 50
John Stock	303, 317	5-ea	25 00
Chas Imbourg	329	5	12 50
T A Hughes	366, 393	10-ea	50 00

And in accordance with law, and an order of the Board of Trustees, made on the 15th day of November, 1865, so many shares of each parcel of said stock as may be necessary, will be sold at public auction, by Messrs. Olney & Co., at No. 626 Montgomery street, San Francisco, Cal., on Saturday, the 30th day of December, 1865, at the hour of 12 o'clock M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of sale.

P. R. RINGSTROM, Secretary.

Office, 210 Pine street, up-stairs, San Francisco. dec16

Yankee Blade Mining Company, Reese River Mining District, State of Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 6th day of December, 1865, an assessment of fifteen (15) dollars per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, at the office of the Company.

Any stock upon which said assessment shall remain unpaid on Saturday, the 13th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Monday, the 29th day of January, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of the sale. By order of the Board of Trustees.

WM. T. ATWOOD, Secretary.

Office, No. 329 Montgomery street (Stevenson House), San Francisco. dec9

Yosemite Silver Mining Company, Oro Flao District, Humboldt county, Nevada.

Notice is hereby given, that at a meeting of the Board of Trustees of said Company, held on the 21st day of December, 1865, an assessment of one dollar and a quarter ($1.25) per share was levied upon the capital stock of said company, payable immediately, in United States gold and silver coin, to the Secretary, 402 Front street, San Francisco, or to J. T. MACLEAN, Superintendent, Star City.

Any stock upon which said assessment shall remain unpaid on Saturday, the 20th day of January, 1866, will be advertised on that day as delinquent, and unless payment shall be made before, will be sold on Tuesday, the 6th day of February, 1866, to pay the delinquent assessment, together with costs of advertising and expenses of sale. By order of the Board of Trustees.

S. O. PUTNAM, Secretary.

Office, 402 Front street. dec23

Delays are Dangerous.—Inventors on the Pacific Coast should bear in mind that by patronizing our Patent Agency they can sign all necessary papers for securing patents almost immediately, thereby avoiding the three month's delay requisite in transacting business through Eastern agencies.

GYPSUM FOR BUILDING MATERIAL.—In the vicinity of Surprise Valley, Nevada State, is an extensive quarry of gypsum, perfectly crystalized, and as transparent as blocks of ice from the clearest pond. This rock naturally breaks in perfect squares, and without cutting, can be used for building purposes. Several houses will soon be erected of this material, and it is thought no windows will be required, as the blocks of gypsum will admit light. A building constructed of this material would certainly present a splendid and fairy-like appearance.

THE Raleigh *Standard* says :—"Never was there a war entered into so suddenly, without thought and reflection—never a war that was conducted with more determination, valor and desperation—never a war that collapsed so suddenly and thoroughly," as the great rebellion just closed.

A MAN named John Bunyan was recently summoned before a magistrate because he would not "move on." The magistrate remarked that he was surprised a man bearing the name of Bunyan should be wanting in "progress."

A MONUMENT is being erected to the memory of Shakespeare, at Stratford-on-Avon, which is to be 100 feet in hight and 36 feet broad at the base, and ornamented by about 40 statutes of Shakspearian characters.

Economy in Advertising.—THE MINING AND SCIENTIFIC PRESS is the best and most ECONOMICAL mining advertising medium in this city. Our terms are less than ONE HALF the rates now charged by daily newspapers, and the mining community are beginning to appreciate our reasonable rates of advertising. The PRESS contains, proportionally, a larger amount of mining advertising than any other paper on the Pacific coast. Its character renders it the proper journal for the concentration of mining patronage.

Our Circulation.—THE MINING AND SCIENTIFIC PRESS has a large and permanent subscription list, and enjoys a more universal circulation among stockholders and persons directly interested in mining than any other paper on this coast.

Deserved Testimonial.

GRIZZLY FLAT, Oct. 18, 1865.

MESSRS. HUNGERFORD & HENDY—*Gentlemen:* We have run your Concentrator for several days past, in our 5-stamp Mill, and, as far as can be ascertained at present, it is a perfect success. When running at the rate of from two hundred and ten to two hundred and twenty-five revolutions per minute, we have lost neither quicksilver nor sulphurets. Formerly, when using copperplate riffles and blankets, we found that in spite of the utmost precaution, quicksilver would escape over them all. Wishing you all success, we remain Your obedient servants,

E. A. BIGLER.
S. F. DAVIS.

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QUARTZ OPERATOR'S HAND BOOK.

A Book for Every Intelligent Prospector, Shareholder, Miner and Machinist.

ZENAS WHEELER AND P. M. RANDALL,
Authors and Publishers.
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THE QUARTZ OPERATOR'S HAND BOOK is presented to the public as a carefully prepared epitome of all that is valuable for the practical operator in the mine and mill. We have here all the most necessary hints and directions for testing and assaying the ores of the various minerals; an explanation of chemical terms; a brief and intelligible description of the numerous processes for roasting ores, and the extraction of metals from their ores by amalgamation and otherwise.

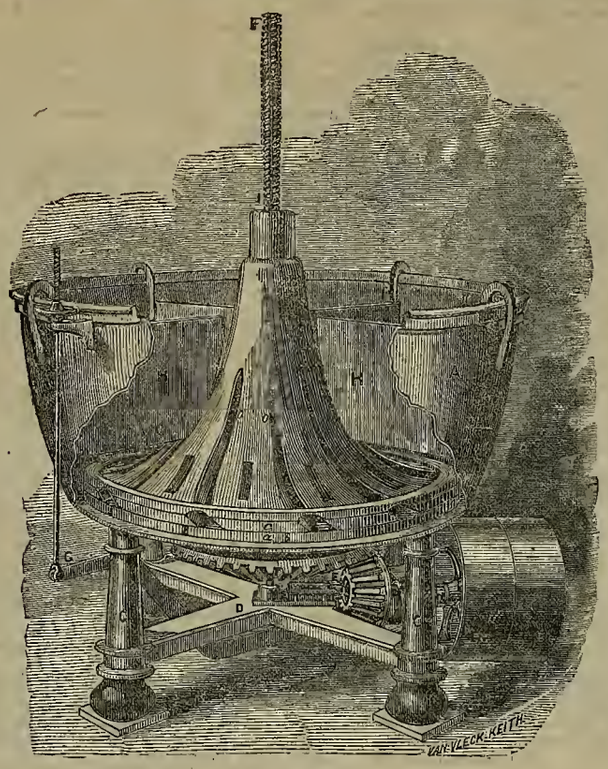
The work also contains an original and highly interesting discussion of the tractory and differently formed grinding plates, as applied to the reduction of ores—a subject not only of special interest to the scientific reader, but also practically of the highest importance to every quartz miner.

Professor Silliman, of Yale, and Hodgson, of the College of California, having examined this discussion, as submitted to them by its author, Mr. Randall, previous to the compilation of this work, speak of the same as not only mathematically correct, but also as of great practical value. Messrs W. R. Eckart, Jr., Engineer, (late of U. S. N.,) and W. M. Belshaw, assayer and superintendent of the S. T. M. Co., to whom the entire work was submitted while passing through the press, speak of the same as one of high practical importance to quartz miners and millmen generally.

No work has been offered to the mining public of California which contains so much valuable information, condensed into so convenient a space as is here presented. In its preparation, much care has been taken to secure brevity, conciseness, and simplicity—in fact to make it a complete and reliable QUARTZ MINER'S HAND BOOK.

The Table of Contents of this book will be found on page 416 of the MINING AND SCIENTIFIC PRESS of July 1st, 1865.

Sold by booksellers generally. Price by mail, postage paid, $1.25. Address "Wheeler & Randall, at the Mining and Scientific Press Office, San Francisco." 2v11



THE EXCELSIOR GRINDER AND AMALGAMATOR.

In the engraving herewith presented, A represents the Rim of the Pan; B, Muller; C, Legs; D, Cross-Frame; E, Gearing; F, Screw; G, Lever; H, Dash-Boards; I, Key; *a*, Dies; *c*, Shoes, and *o*, Openings,

The relative grinding capacities of "The Excelsior" Grinder and Amalgamator, of the Flat Bottomed Pan, and of the Conical Pan *when properly constructed,* are respectively 177, 98 and 110.

That is, the respective mullers being of the same diameter, same weight, same hardness, and running at the same velocity "The Excelsior Grinder and Amalgamator" will reduce one hundred and seventy-seven tons of ore, the Flat Bottomed Pan ninety-eight tons, and the Conical Pan one hundred and ten tons to the same degree of fineness in the same time.

The wear to the Shoes and Dies at their grinding surfaces in the Excelsior Grinder and Amalgamator, is perfectly uniform, thus securing evenness of reduction to the pulp, as well as steadiness of motion to the muller. Uniform wear of the grinding plates has been attained in no other than that of the Tractory form—nor can it be.

Another property of excellence in this machine is that the metal or substance to be amalgamated passes *direct* from the grinding surfaces into the quicksilver; thus excluding the possibility of its becoming coated with any foreign substances, after having been burnished. It is truthfully said "that the Tractory-formed Pan as a Grinder has no equal, and as an Amalgamator no superior."

As a whole, it is far superior to any other pan in use.

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WHEELER & RANDALL, Inventors.

The undersigned having had several years of experience in practical quartz mining operations, will ever take great pleasure in furnishing parties interested in mining and machinery any desired information which they may possess.

WHEELER & RANDALL.

SAN FRANCISCO, June 13, 1865.

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San Francisco, March 6, 1865. 11v10-tf

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Contractor

For Well Boring and Erecting all kinds of Machinery connected therewith.

Having had extensive experience in boring for oil in Pennsylvania, Canada and elsewhere, I feel confident of being able to give entire satisfaction. Persons desirous of making contracts as above, or wishing information with regard to oil indications, etc., will please address me at the office of the "Mining and Scientific Press," San Francisco, or to my personal address, Box 1229 San Francisco. 2v11

LEHIGH COAL.

200 Tons Large Lump Lehigh Coal

Now on Hand.

I am also in constant receipt of

LEHIGH COAL,

And will be able to supply it always

At the Lowest Market Price.

JAMES R. DOYLE,
20v10-3m Pacific Coal Yard, 413 and 415 Pacific street.

WHO MAKE THE FASHIONS.—All the world knows that Paris sets the fashions for the people everywhere. In a late speech in the French Senate, M. Dupin thus stated what particular class in Paris were the originators of the fashions. M. Dupin said: We speak of courtezans who exhibit themselves in our public places. Yes, we behold them in brilliant equipages to attract public attention. And what does our high society do? Why, it looks on, accepts them as its models, and it is precisely these women who give the fashion to the ladies of fashion. These are the persons whom they copy, and such is the exemplo given by high society.

A BOSTON gentleman has recently imported a watch, made by James Hardin in Switzerland, from an original design of the Boston gentleman. Its cost is $3,000, the works alone costing $1,500. It has been some two years in process of manufacture.

Removal.

The Office of the MINING AND SCIENTIFIC PRESS has been removed to the old printing stand known as Waters Bros. & Co., southwest corner of Clay and Sansome streets, opposite the Mantle Hotel (being one block south of our former location), where we may now be found, with more commodious apartments and an extensive JOB PRINTING OFFICE.

San Francisco, April 10th, 1865.

Oakland Water-Cure.

APRIL 1ST, 1864, WE OPENED A HYGIENIC BOARDING House and Ladies' Health Institute in Oakland. The great advantage we have experienced since that time, in the treatment and cure of all those diseases peculiar to females, as well as those common to all, over that of San Francisco, induced us to give up the treatment of gentlemen in the city. We have accordingly removed our entire Bathing, Electro-magnetic, and Gymnastic Apparatus, which we used especially in the treatment of males, to our Health Institute across the Bay, and have found, after a trial of seven months, that gentlemen as well as lady patients recover, at our Fountain Farm Cure, one-third faster than in the city of San Francisco. The climate here is the most even and bracing to be found in the State. The grounds command a view unsurpassed in the world. The Institution is furnished with an abundance of pure, soft water, from numerous springs; and we now offer to Ministers, Teachers, Lawyers, Miners, Merchants, Mechanics, Farmers, and all other worthy persons, who desire to try the advantage of the only *rational* system of medicine, the hospitalities of our Hygienic Home and Cure. Young men who have become debilitated or lost their health by excesses, exposure, or enervating habits, contracted through ignorance of Physical Laws, may with us find more of the encouragements they need, and means that will restore them to health, than elsewhere in California.

We claim for Water-Cure and Hygienic Medication superior advantages over all systems of drug medication in the cure of all disorders, whether acute or chronic; that it is followed by none of those debilitating diseases, such as Piles, Chronic Diarrhœa, Torpid Liver, Constipation, intense Nervousness, Neuralgia, etc., nor those terrible secondary Diseases, known as Varicose Swelling of the Veins, Necrosis, or Decaying of the Bones, Ulceration of the Limbs, Mercurial Rheumatism, Urethal Strictures, etc., which we well know result from the free use of mercury and other metallic drugs, together with stimulants and vegetable poisons given to overcome acute diseases.

The Oakland Water-Cure and Eye Infirmary is by far the most complete in its facilities for the cure of all diseases commonly treated in all Eastern Water Cures of any like establishment on this coast, and the only one in California conducted according to the Theory and Practice of the New York Hydropathic College. We use all forms of Warm and Cold Wet Sheet Packs, the Electro-Chemical Bath, Sitz Baths, Improved Sitz Baths, Douch Baths, a Patent Spray Bath, and Magic Baths. The last named was instituted by Dr. Smith with special reference to the cure of those diseases peculiar to miners, namely: Rheumatism, Inflammatory or Chronic, Stiff Joints, Paralysis, Mercurial, Lead, and Oak Poisoning. It is a sure cure for Ague and Fever. It aids more than any other Bath we have yet used in eradicating all kinds of drugs and infectious poisons, and in the cure of all disorders induced by exposure to dampness and water, foul air, absence of light and electricity, retorting metals, the malaria of rivers and low marshy grounds. Where there was a fair constitution left, even when drugs had been applied for months and years without a cure, we have, in the past seven years, treated successfully the following diseases: Inflammatory and Mercurial Rheumatism; Paralysis; Lung, Bronchial and Catarrhal Affections; Diseases of the Heart, Kidneys, Liver; Dyspepsia, Constipation, Erysipelas, Scrofula, Piles, Inflammation of the Bowels, Chronic and Acute Diarrhœa, and all diseases and weaknesses peculiar to male and females. No physician in California is so favorably situated to furnish so many home comforts and hygienic conditions that are indispensable to the speedy recovery of nervous and chronic invalids. We have the only truly healthful boarding place in the State for men, women and children, with plenty of saddle and carriage horses for the use of patients and boarders.

To that class of Diseases and Weaknesses peculiar to females, and the medication that Hydropathic or Hygienic physicians employ in their cure, do we invite the special attention of patients and their friends. The ease and rapidity with which females suffering from general or special debility, recover in the bracing climate of the Bay, under Hygienic Medication, together with the universal success that has attended the treatment of females at Dr. Smith's Institutions, (both in Sacramento and San Francisco) has induced us to make this class of human afflictions a specialty of our Institution. We have treated (mostly in the cure), over 300 females, several of whom had been "bedridden" for months and years, and all have been decidedly benefited, and with but few exceptions, returned to their homes in from two to six weeks, so far recovered as to no longer to need a physician. We have never yet learned of a single instance of a relapse into their former condition.

There is not one female invalid in twenty that has been suffering from nervous debility or diseases peculiar to her sex, that cannot be permanently cured in from four to six weeks at our Cure, and at the mere cost of $100. This statement we make in confidence, from an experience of the last seven years. From the many who have been treated at our Cure, we have yet to learn of a single regret from husband or wife of the time or means they have expended in Hygienic Medication.

NEW YORK, Aug. 1, 1858.

To all whom it may concern:

This certifies, that Dr. Barlow J. Smith is a graduate of the New York Hygieo-Therapeutic College, which College has a regular Charter from the Legislature of the State of New York, and is authorized to grant Diplomas, conferring on its students all and the same privileges and immunities in relation to the practice of the Healing Art, that are conferred by the Diplomas of any Allopathic or other Medical College in the country.

Dr. Smith has also devoted much attention to Phrenology, especially in its connection with Physiology and Pathology, a portion of the time under the instruction of Fowler & Wells, of this city, and has labored successfully as a teacher and lecturer on these subjects.

R. T. TRALL,
Principal New York Hygieo-Therapeutic College.

To all whom it may concern:

I have known Dr Barlow J. Smith, both in our office as a Student, and a practical Phrenologist in the country, and from what I know of him I can cheerfully recommend him as an honest, faithful delineator of character, and as such can cheerfully recommend him to the public.

For the good of Science.

L. N. FOWLER, 308 Broadway, N. Y.

Dr. Smith spends a part of each day in San Francisco, attending to family practice and to Phrenological and Physiological examinations at his office, Room 13 Armory Hall, up stairs, corner Montgomery and Sacramento streets. Office hours from 11 A. M. to 2 P. M. Circulars sent on application. Address,

BARLOW J. SMITH, M. D.,
20v11tf San Francisco, Box 473.

Machinery.

HUNTER'S
PREMIUM
CONCENTRATOR, AMALGAMATOR
AND SEPARATOR,

Awarded a Silver Medal at the late Mechanics' Fair.

HUNTER'S CONCENTRATOR CAN BE SEEN IN OPERation daily at the Novelty Iron Works, Fremont street. Parties wishing to purchase Concentrators will find it to their advantage to examine the above machine before purchasing elsewhere, for the following reasons:

1st. It will work the sands from a 5-stamp battery, and save from 10 to 30 per cent. more sulphurets than any machine built on the Pacific coast.

2d. The Sulphurets are washed clean, containing less than ten per cent. of sand.

3d. The waste free gold and amalgam is amalgamated on the copper plates; no trace of ground mercury and scarcely a trace of metal passes off with the sand.

4th. Its simplicity is a sufficient recommendation for its general use as a Concentrator. The variation of speed in a Quartz Mill does not effect the working of the Machine. The same was demonstrated at the late Mechanics' Fair, which with the greatest IRREGULARITY OF SPEED the best of results were given.

5th. There is no clogging or stopping to clean out the sulphurets and sand; consequently no waste from any inattention on the part of the attendant.

6th. In exhibiting the working of the machine (it is not run empty), all classes of ores and tailings, from 50 pounds and upwards, are concentrated that parties may see it to test the machine with.

Give it a trial, and satisfaction is guaranteed. All orders and any information required, address,

ANDREW HUNTER,
Novelty Iron Works, Fremont st., San Francisco,
15v11-3m Or to E. T. STEEN, Agent.

BAUX & GUIOD'S
Separator & Amalgamator

Is the most important improvement in mining machinery ever introduced. It was awarded the FIRST PREMIUM at the San Francisco Mechanics' Fair for 1864, where it proved itself to be the best Separator and Amalgamator among all the competitors. Constructed on principles which combine SCIENTIFIC KNOWLEDGE WITH PRACTICAL EXPERIENCE, these Pans extract more gold and silver from their ores than any others in use, as a few hours trial will demonstrate. Mill men will find it to their advantage to employ these pans as Separators, in addition to the ordinary Amalgators now in use, and to re-work their old tailings.

The cost of these pans is inconsiderable, and their structure is such that they can be readily separated in parts convenient for packing on mules. Among the many advantages possessed by BAUX & GUIOD'S Pan, are the following: The trifling cost for attendance; its small cost; its portability. The large quantity of pulp it can operate upon in a given time; it may be worked even weeks without stopping, as it is constructed to work continuously; The complete thoroughness of the separation of the rock from the metals and the trifling power required to work them; They can be attached to any ordinary crushing apparatus.

We have the pleasure of referring parties interested to the following parties, who have our Pan in use: Jefferson Ina Mining Company, Bowman's Ranch, Nevada county; The French Mill, Nevada city; Crall's Gravel Cement Works, Nevada county; Waltman's Chlorination Works, Nevada, Cal.; Gold Hill Quartz Mill, Washoe.

Manufactured at the Vulcan Iron Works and San Francisco Foundry, San Francisco, and at Heugh & Thom's Foundry, Nevada City.

For further particulars, or to see this Pan in operation, call on or address

J. B. BAUX,
Fremont Street, near Mission, adjoining the San Francisco Iron Works, San Francisco. 4v8-6df

BLAKE'S
QUARTZ BREAKER

Is now extensively used for breaking hard masses of

Quartz or Ores

To a size suitable for stamps. These machines are patented, and are in practical operation in

CALIFORNIA,		AUSTRALIA,
	WASHOE,	
ENGLAND,		FRANCE,

— AND —

THE ATLANTIC STATES.

These Machines, or circulars containing further information regarding them, may be obtained of the undersigned. Address,

BLAKE & TYLER,
Box 2077 San Francisco Post Office.

CHAS. T. BLAKE,	E. TYLER,	WM. P. BLAKE,
Idaho City.	Michigan Bluff.	San Francisco.

4v10

Hepburn & Peterson's
AMALGAMATOR.

THE SUBSCRIBERS WOULD CALL THE ATTENTION of the Mining Public to their Reducer and Amalgamator, and also to their Separator for reducing and separating the mineral from

Gold and Silver Ores,

Manufactured and exhibited at the Vulcan Iron Works, Nos 137 and 139 First street, San Francisco.

These machines secure to the Miner a more Expeditious and Perfect Reduction and Amalgamation, a less liability to accident and delay, and a greater amount of useful effect in proportion to the power employed to keep them in operation than any other machine now in use for producing similar results. This fact is attested to by their general adoption and preference at all the principal Reduction Works in Nevada; among which may be mentioned the Gould & Curry Mill, the Silver State Reduction Works, Zephyr Flat Mill, Pioneer Mill, Eastern Slope Mill, Phœnix Mill, etc.

☞ This Amalgamator may be seen in operation at the European Metallurgical Works, Bryant st. bet. 3d and 4th. (Illustrated in the Mining and Scientific Press, April 9th, 864.)

HEPBURN & PETERSON.
nov8 3m*

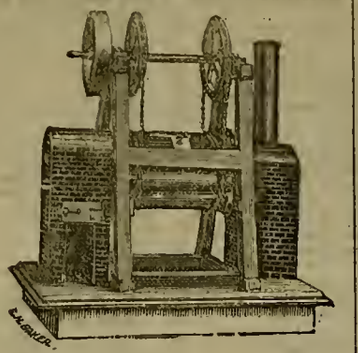
HUNT'S PATENT
Circular Sweep Horse-Powers,

For running Churns, Washing Machines, Grindstones, pumping water, sawing wood, and other light machinery. Price, $100, at the Factory.

HUNT'S PATENT SELF-REGULATING TREAD HORSE-POWER is superior to any machine of the kind in the market. Price, with Governor, all complete to set to work, at the Factory, $300. Manufactured by

E. O. HUNT,
7v10 28 Second street, San Francisco.

The Mechanics' Institute
AWARDED A
PREMIUM SILVER MEDAL
TO BRUCKNER'S
MECHANICAL ROASTING FURNACE.



Parties wishing to erect such Furnaces, are requested to leave their orders with

T. KALLENBERG,
12v11 416 Market street, San Francisco.

HUNT'S
IMPROVED WIND-MILL.

THIS WIND-MILL IS RAPIDLY taking the place of all other Mills on the Pacific Coast. These Mills are so simple in their construction, that when once built, they can be put in order by almost any person; and when once in order they will run for years without repairs.

Prices, from $50 to $1,000.

ROUND AND SQUARE WATER TANKS BUILT TO ORDER.

HUNT'S PUMPS

Are admitted to be the best in the Market for Wind Mills, being built expressly for that purpose. They can be set, and taken apart with a common wrench, and are very easily repaired.

HUNT'S ENDLESS CHAIN
HORSE POWER
For Sawing Wood.

ALSO, THE

Self-Regulating Horse Power

Is so arranged as to give a steady motion, and is calculated to be used for turning Wood, Iron or Brass, also for Scroll or Circular Sawing, and is fully equal to Steam for any light work. The above Machines are built of the best materials, and made as Durable as Wood and Iron will make them.

ALL WORK WARRANTED.

☞ For further Particulars see small circulars. ☜

E. O. HUNT,
No. 28 Second Street, and 108 & 112 Jessie Street, San Francisco. 26-3m

DENIS WHELAN,
Fashionable Boot Maker

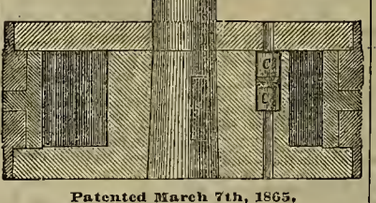
REPAIRING NEATLY DONE, AT SHORT NOTICE.

No. 17 Fourth Street,

Near Market street, San Francisco.

15v10-1m*

Stevens' Pressure Packing.



Patented March 7th, 1865.

Pressure Packing is now conceded, by the best engineers, to be the most effectual method of making and keeping the metallic ring of pistons steam-tight.

STEVENS' PACKING has the advantage of being cheaper in first cost than the ordinary packing, and can be applied to old style pistons with very little alteration or detention. In place of testimonials, the Patentee requests of those who are using the old spring packing to inquire of the owners of the various engines which now have this packing in use—some of which have been running from three to twelve months without being opened, or showing any descriptive leak—and act upon their recommendation.

Further particulars can be had by applying to the Patentee, ANDREW STEVENS, Master Mechanic, Alameda Railroad; or at the VULCAN IRON WORKS, where they can be seen, at any time, in course of construction.

10df **ANDREW STEVENS.**

SALMON'S
PROPELLOR AMALGAMATOR
— AND —
Challenge Settler

Has been in use and thoroughly tested, both in California and Nevada, with entire satisfaction to all parties concerned. These Machines are

Made entirely different from any others,

And with the same power will grind, amalgamate, settle and separate, more gold and silver ore than any others now in use. Manufactured at the SAN FRANCISCO FOUNDRY, where Machines can be seen in operation. Address

9v11 **J. & W. C. SALMON.**

McCOMB'S
CUMULATIVE POWER PRESS
AND
ARROW TIE.

E. C McCOMB, Agent.

No. 1 Government House, cor. Sansome and Washington sts.
29v10 3m

STOW'S
PATENT CHAMBER DRILL.

The greatest Labor-saving Machine ever invented for Quartz Mining. By using this Drill in shafts, tunnels, and all other rock blasting, three-fourths of the labor and over one-half of the powder will be saved. The Drill makes a chamber directly at the bottom of the hole, at any depth you wish, six times the area of the original hole, in all kinds of rock, in less time than a man can drill a 12 hole two inches deep. Requiring no tamping, it will be impossible to have a premature blast.

AT THE STATE FAIR held in Sacramento, September, 1863, a Committee, after examining both the Lincoln's and Stow's Chamber Drills, reported as follows:

We, the undersigned, Committee on Mining Tools, do award to Henry M. Stow, of San Francisco, the FIRST PREMIUM for the best Chamber Drill for blasting rock, for the following reasons:

1st. For simplicity of construction.
2d. For durability of drill;
3d. For strength of drill.

The above Drills will be sent to any part of the State for **$30,** with one set of Cutters or Chisels that will chamber from 75 to 150 holes. Extra Chisels furnished at $2 50 per set.

The Drill may be seen at Mr. BUFFINGTON'S Office, No. 6 Government Block, corner Sansome and Washington streets, and at No. 511 Market street.

Drills will be delivered to any part of this State free of expense to the purchaser. Any information desired, or orders for Drills, address

STOW & COLLINS,
San Francisco

Oil Wells! Oil Wells!!

I received at the last STATE FAIR a special Premium for the best Expanding Drill for boring oil wells. The above Drill will bore the hole from ¼ inch to 2 inches larger than the inside of the pipe or tubing of the well, if desired, making the bore perfectly straight and round. The Drill can be attached to and work with any common drill at an expense of from $25 to $50. I will furnish all machinery for boring, or will take contracts for boring wells, and furnish steam engines and all tools required. Address,

HENRY M. STOW,
14v11 San Francisco.

WATER WHEELS!

Equal to the Best Overshot Whee

POWER PLEDGED

IN EXISTENCE.

LEFFEL'S
AMERICAN DOUBLE TURBINE

Is now manufactured by the Vulcan Iron Works Company, in this city, and orders for the same can be filled immediately. We have a large supply of the different sizes, from 10 inches to 29½. That we may know the proper Wheel you require, measure your water in the following way: Take the width of the stream, the average depth, and the distance it flows in a minute.

All the Wheels already in use give universal satisfaction. For particulars send for a Circular.

This Wheel is especially adapted to mining purposes. It is light, and can be easily packed into the mountains. Wheels weighing from 100 to 300 pounds, will yield from 10 to 40 horse-power under a head of 25 or 30 feet. They are the cheapest wheel to set up known, as they are so arranged as to produce the greatest power possible from the water used.

Come and see them, or send for a Circular to

LEFFEL & MYERS,
At Vulcan Iron Works, office 137 and 139 First street, San Francisco. 4v11tf

VARNEY'S
PATENT AMALGAMATOR.

These Machines Stand Unrivaled.

For rapidly pulverizing and amalgamating ores, they have no equal. No effort has been, or will be, spared to have them constructed in the most perfect manner, and of the great number now in operation, not one has ever required repairs. The constantly and increasing demand for them is sufficient evidence of their merits.

They are constructed so as to apply steam directly into the pulp, or with steam bottoms, as desired.

This Amalgamator Operates as Follows:

The pan being filled, the motion of the muller forces the pulp to the center, where it is drawn down through the aperture and between the grinding surfaces. Thence it is thrown to the periphery into the quicksilver. The curved plates again draw it to the center, where it passes down, and to the circumference as before. Thus it is constantly passing in a regular flow between the grinding surfaces and into the quicksilver, until the ore is reduced to an impalpable powder, and the metal amalgamated.

Settlers made on the same principle excel all others.—They bring the pulp to constantly and perfectly in contact with quicksilver, that the particles are rapidly and completely absorbed.

Mill men are invited to examine these pans and settlers for themselves, at the **PACIFIC FOUNDRY,**
1v1 San Francisco.

MITCHELL'S
COMBINED
FAUCET AND MEASURE.

This is one of the most useful inventions of the day, and is destined to go into universal use on this coast, as it has in the Eastern States.

The invention consists of a combined Faucet and Measure, so arranged that the liquid contents of any cask or other vessel can be drawn and accurately measured without the use of measures or funnels other than such as are embraced in the Faucet itself. While it obviates altogether the use of measures, it operates much more perfectly than the old method of drawing and measuring such liquids as have a tendency to foam up when drawn, as coal oil, linseed oil, etc.

The Proprietor has made arrangements with GALLAGHER, WEED & WHITE, of the California Brass Foundry of this city, for the manufacture of this Faucet, and is prepared to furnish the article or sell territories. Here is a chance for men with small capital to invest in a good business.

Residence, 320 Taylor street, near O'Farrell street.

D. C. MITCHELL, Prop'r.
San Francisco, Aug. 22d, 1865. 10v11-3m

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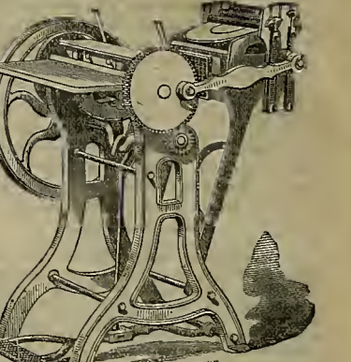

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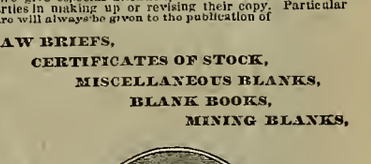

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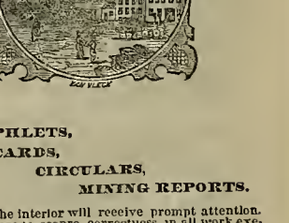

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